

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P591329

Luminaire Tested: **CTN-CA10-760-730-U-T3-SSS-HM-EX120**

Issue Date: 1/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P591329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/19/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-730-U-T3-SSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE  
Light Source: (10) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62550 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

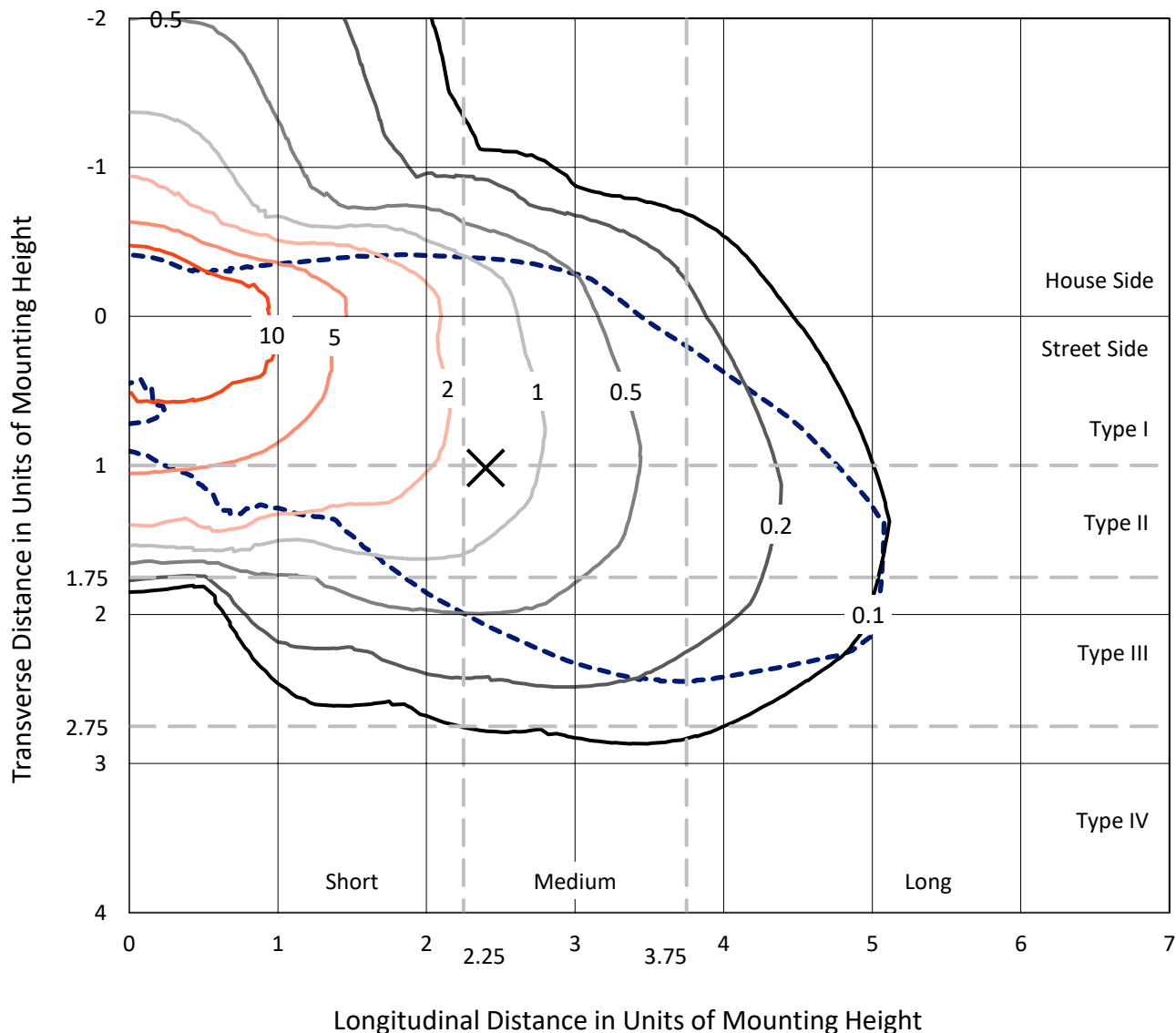
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

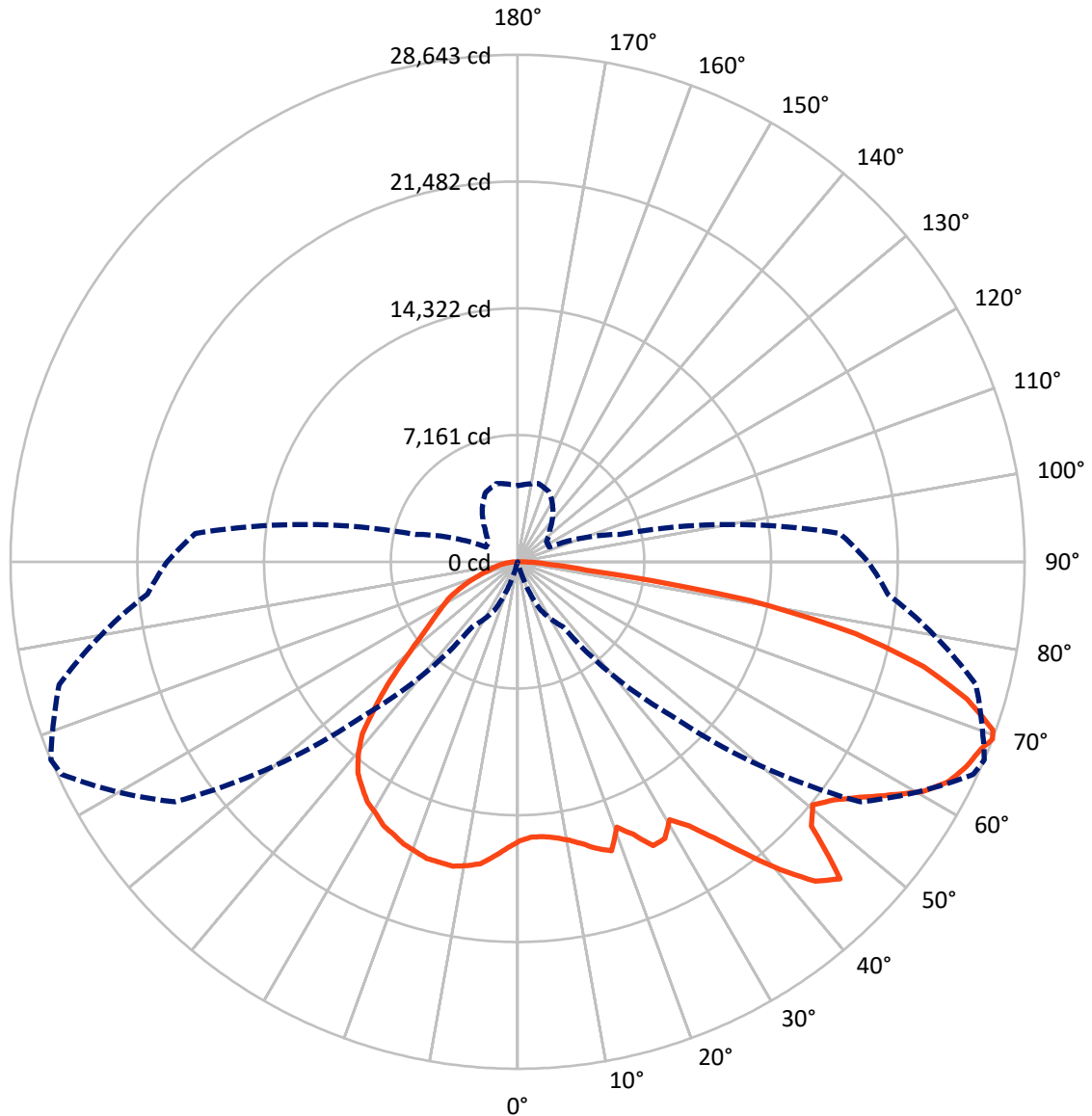
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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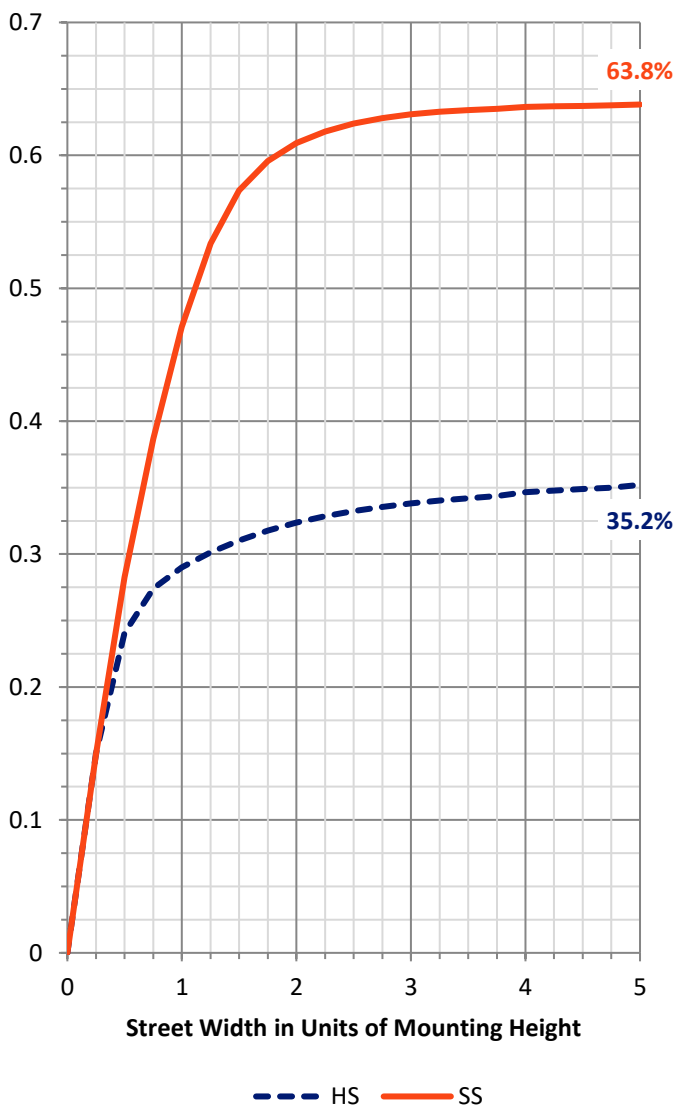
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22628.8	0.0	22628.8
	% Fixture	36.2	0.0	36.2
<b>Street Side</b>	Lumens	39921.2	0.0	39921.2
	% Fixture	63.8	0.0	63.8
<b>Total</b>	Lumens	62550.0	0.0	62550.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1575.7	2.5
10°-20°	4864.8	7.8
20°-30°	7180.2	11.5
30°-40°	9021.4	14.4
40°-50°	10581.6	16.9
50°-60°	11072.9	17.7
60°-70°	9892.4	15.8
70°-80°	6962.4	11.1
80°-90°	1398.5	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	62550.0	100.0
0°-180°	62550.0	100.0

**Coefficient of Utilization**

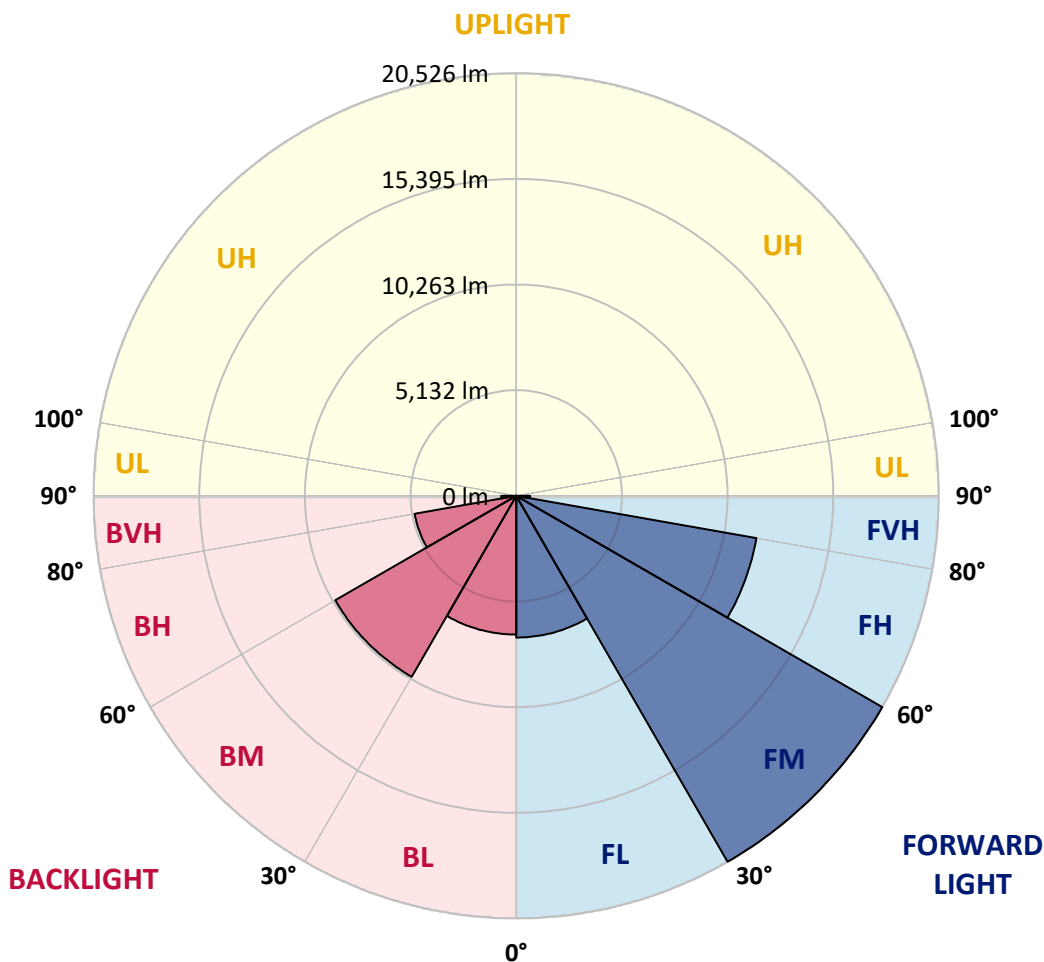


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6883.4	11.0			
FM (30°-60°)	20526.1	32.8			
FH (60°-80°)	11843.4	18.9			G4/12000
FVH (80°-90°)	668.3	1.1			G4/750
BL (0°-30°)	6737.3	10.8	B5		
BM (30°-60°)	10149.9	16.2	B5		
BH (60°-80°)	5011.4	8.0	B5		G5
BVH (80°-90°)	730.2	1.2			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9
2.5°	15381.9	15291.3	15333.4	15453.0	15204.0	15381.9	15317.2	15498.2	15566.1	15556.4	15815.1
5°	15504.7	15404.5	15420.7	15511.2	15239.6	15378.6	15317.2	15517.6	15595.2	15572.6	15925.0
7.5°	15941.1	15831.2	15795.7	15824.8	15530.6	15637.3	15504.7	15666.3	15750.4	15750.4	16151.3
10°	16629.7	16497.2	16419.6	16416.4	16070.5	16022.0	15860.3	15934.7	15996.1	16047.8	16494.0
12.5°	17350.7	17240.7	17140.5	17085.6	16629.7	16516.6	16280.6	16335.5	16354.9	16426.1	16869.0
15°	18006.9	17897.0	17867.9	17780.6	17328.0	17140.5	16810.8	16784.9	16810.8	16852.8	17292.5
17.5°	17754.8	17761.2	17922.9	17939.0	17350.7	16917.5	16687.9	17124.4	17166.4	17499.4	17783.9
20°	17276.3	17040.3	16193.3	15731.0	15798.9	16361.4	15944.4	15925.0	16012.3	16603.9	18045.7
22.5°	14389.4	14260.1	14725.6	14874.3	15411.0	15624.3	16616.8	16642.7	16730.0	16730.0	17150.2
25°	12423.8	13093.0	13998.2	15614.6	15446.5	15488.5	15892.6	17609.3	17774.2	17770.9	17709.5
27.5°	12844.1	12760.0	14114.6	15129.7	16329.1	16254.7	15815.1	16982.1	17712.7	18967.1	18676.1
30°	13348.4	13287.0	13387.2	15103.8	17092.0	17192.2	16784.9	16665.3	16914.2	19549.0	19781.8
32.5°	13817.2	13742.8	13856.0	14117.8	16022.0	18158.9	17845.3	17699.8	17790.3	18320.5	21204.2
35°	14231.0	14224.5	14353.8	14664.2	16287.1	18495.1	18931.5	18921.8	19164.3	19620.1	21411.1
37.5°	14525.2	14521.9	14625.4	14987.4	15352.8	17082.3	19949.9	20528.5	20916.5	21592.1	20916.5
40°	14521.9	14573.6	14845.2	15310.7	15795.7	16316.1	20399.2	22416.5	22882.0	23363.7	22238.7
42.5°	14218.0	14247.1	14725.6	15588.8	16190.1	16639.4	18614.7	24152.6	24673.0	24637.5	23279.7
45°	13936.8	13949.7	14483.1	15543.5	16519.8	17331.3	18249.4	24146.1	25552.4	25772.2	24259.2
47.5°	13571.5	13571.5	14098.4	15281.6	16817.2	18110.4	19225.7	20858.3	22326.0	26755.0	25070.7
50°	13102.7	13160.9	12514.3	15010.1	16959.5	18850.7	20053.3	21398.2	21601.8	23926.3	25823.9
52.5°	12355.9	12323.6	9779.3	14709.4	17017.7	19387.3	20913.2	22241.9	22351.9	22119.1	25086.8
55°	7787.9	8683.4	8647.8	14357.0	16982.1	19733.3	21572.7	23169.8	23480.1	23195.6	21104.0
57.5°	4703.8	4490.4	7390.3	13348.4	13639.4	20001.6	22468.2	24579.3	24850.8	24191.3	21459.6
60°	1836.3	1732.8	1871.8	6074.5	9785.8	18608.2	23687.0	26076.1	26334.7	25138.6	21760.3
62.5°	229.5	197.2	168.1	4205.9	6220.0	13823.6	24333.6	27281.9	27330.4	25823.9	21818.4
65°	32.3	35.6	64.7	3750.1	5651.0	13587.6	24559.9	27773.3	27873.6	26318.6	21621.2
67.5°	12.9	16.2	51.7	3261.9	4959.2	12960.5	24000.6	28112.8	28229.2	26797.0	21430.5
69°	12.9	16.2	51.7	2932.2	4487.2	12268.6	23641.8	28413.4	28643.0	26806.7	20994.1
70°	12.9	16.2	48.5	2696.2	4118.6	11683.5	23295.9	28297.1	28481.3	26548.1	20509.1
72.5°	12.9	16.2	48.5	2075.5	3132.6	9381.7	21107.2	26648.3	26554.6	24918.7	18621.2
75°	16.2	16.2	48.5	1458.0	2172.5	6672.6	17813.0	23664.4	23706.4	22183.8	15663.1
77.5°	16.2	16.2	48.5	927.8	1370.7	3860.0	12899.0	19406.7	19526.4	18482.2	11728.7
80°	16.2	16.2	48.5	423.5	850.2	2017.3	6342.8	12646.9	13290.2	12407.6	6436.6
82.5°	16.2	16.2	45.3	265.1	465.5	908.4	2502.2	3966.7	3927.9	3866.5	2046.4
85°	12.9	12.9	35.6	187.5	310.4	527.0	1390.1	1778.1	1755.4	1555.0	1057.1
87.5°	6.5	6.5	19.4	77.6	129.3	239.2	695.1	808.2	769.4	659.5	452.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9	15756.9
2.5°	15934.7	15957.3	16064.0	16203.0	16245.0	16426.1	16455.2	16752.6	16797.8	16872.2	16904.5
5°	16096.3	16183.6	16416.4	16742.9	17020.9	17305.4	17315.1	17677.2	17770.9	17751.5	17845.3
7.5°	16325.8	16471.3	16826.9	17279.5	17379.8	17748.3	17722.4	18081.3	18087.7	18036.0	18178.3
10°	16678.2	16859.3	17182.5	17460.6	17651.3	17890.5	17858.2	18197.7	18149.2	18094.2	18252.6
12.5°	17040.3	17134.1	17331.3	17641.6	17683.6	17767.7	17725.7	18039.3	17987.5	17919.6	18074.8
15°	17357.1	17402.4	17402.4	17570.5	17463.8	17531.7	17389.5	17641.6	17522.0	17489.7	17638.4
17.5°	17767.7	17693.3	17541.4	17528.5	17250.4	17147.0	16933.6	17001.5	16775.2	16797.8	16875.4
20°	18230.0	18065.1	17664.2	17263.4	16749.3	16503.7	16080.1	16047.8	15837.7	15798.9	15873.2
22.5°	18401.3	18546.8	17813.0	17037.1	16151.3	15601.7	15100.6	14861.4	14554.2	14357.0	14382.9
25°	18921.8	19183.7	18039.3	16633.0	15446.5	14541.3	13788.1	13241.7	12779.4	12543.4	12591.9
27.5°	19626.6	20053.3	18168.6	16351.7	14521.9	13338.7	12077.9	11360.2	10881.7	10636.0	10629.6
30°	20635.2	21171.9	18417.5	15763.3	13493.9	11757.8	10202.8	9355.8	8964.7	8803.0	8816.0
32.5°	21896.0	22542.6	18934.7	15271.9	12375.3	10067.1	8295.5	7555.1	7377.3	7348.2	7332.1
35°	23567.4	24207.5	19345.3	14515.5	10923.8	8150.0	6659.7	6135.9	6165.0	6158.6	6178.0
37.5°	23295.9	25723.7	19814.1	13775.1	9187.7	6388.1	5382.7	5088.5	5098.2	5211.3	5234.0
40°	22274.3	24398.2	20512.4	12549.9	7157.5	4907.5	4244.7	4176.8	4454.9	4703.8	4749.0
42.5°	23076.0	23599.7	20606.1	11227.7	5237.2	3763.0	3549.7	3830.9	4280.3	4568.0	4619.7
45°	23877.8	24301.3	20063.0	9249.2	3756.6	3219.9	3378.3	3782.4	4280.3	4587.4	4623.0
47.5°	24692.4	24689.2	19429.4	7416.1	3071.2	3077.7	3336.3	3785.7	4306.1	4616.5	4635.9
50°	25209.7	25002.8	17774.2	5809.4	2857.8	2993.6	3313.7	3805.1	4299.7	4526.0	4535.7
52.5°	25468.3	25161.2	16312.9	4642.4	2757.6	2925.7	3316.9	3850.3	4264.1	4390.2	4383.7
55°	25031.9	25073.9	15103.8	3860.0	2663.9	2870.8	3333.1	3882.6	4280.3	4409.6	4409.6
57.5°	24488.8	24498.5	14140.4	3268.4	2570.1	2825.5	3352.5	3931.1	4577.7	4820.2	4784.6
60°	24107.3	23670.9	12776.2	2896.6	2463.4	2783.5	3378.3	4141.3	5276.0	5521.7	5437.6
62.5°	23480.1	22888.5	11373.1	2638.0	2343.8	2751.1	3394.5	4435.5	5369.7	5382.7	5175.8
65°	22381.0	21534.0	9181.3	2382.6	2221.0	2705.9	3384.8	4545.4	4946.2	4752.3	4694.1
67.5°	20790.4	19684.8	7196.3	2127.2	2085.2	2638.0	3449.4	4344.9	4671.5	4513.0	4435.5
69°	19797.9	18281.7	5974.3	1975.3	1997.9	2586.3	3481.8	4306.1	4574.5	4380.5	4290.0
70°	19044.7	17066.2	5059.4	1875.0	1923.5	2541.0	3417.1	4283.5	4529.2	4290.0	4183.3
72.5°	16170.7	13720.2	3239.3	1642.3	1729.6	2427.9	3242.5	4141.3	4429.0	4267.3	4134.8
75°	12501.4	10076.8	2065.8	1428.9	1532.4	2259.8	3061.5	4041.1	4474.3	4183.3	3892.3
77.5°	8415.1	5628.4	1577.6	1199.4	1299.6	2039.9	2773.8	3759.8	4319.1	4063.7	3704.8
80°	3834.1	2146.6	1218.8	973.1	1050.7	1642.3	2392.3	3326.6	4083.1	4079.8	3821.2
82.5°	1535.6	1435.4	905.2	743.6	827.6	1225.2	1894.4	2848.1	3601.4	3756.6	4012.0
85°	895.5	905.2	601.3	517.3	617.5	902.0	1351.3	2201.6	2929.0	3239.3	3455.9
87.5°	365.3	407.3	281.3	271.6	339.4	481.7	620.7	1066.8	1577.6	1936.5	2069.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)