

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: P591326

Luminaire Tested: **CTN-CA10-760-730-U-T2-SSS-HM-EX120**

Issue Date: 1/19/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P591326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2201-495-5)  
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-T2-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: 64065 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

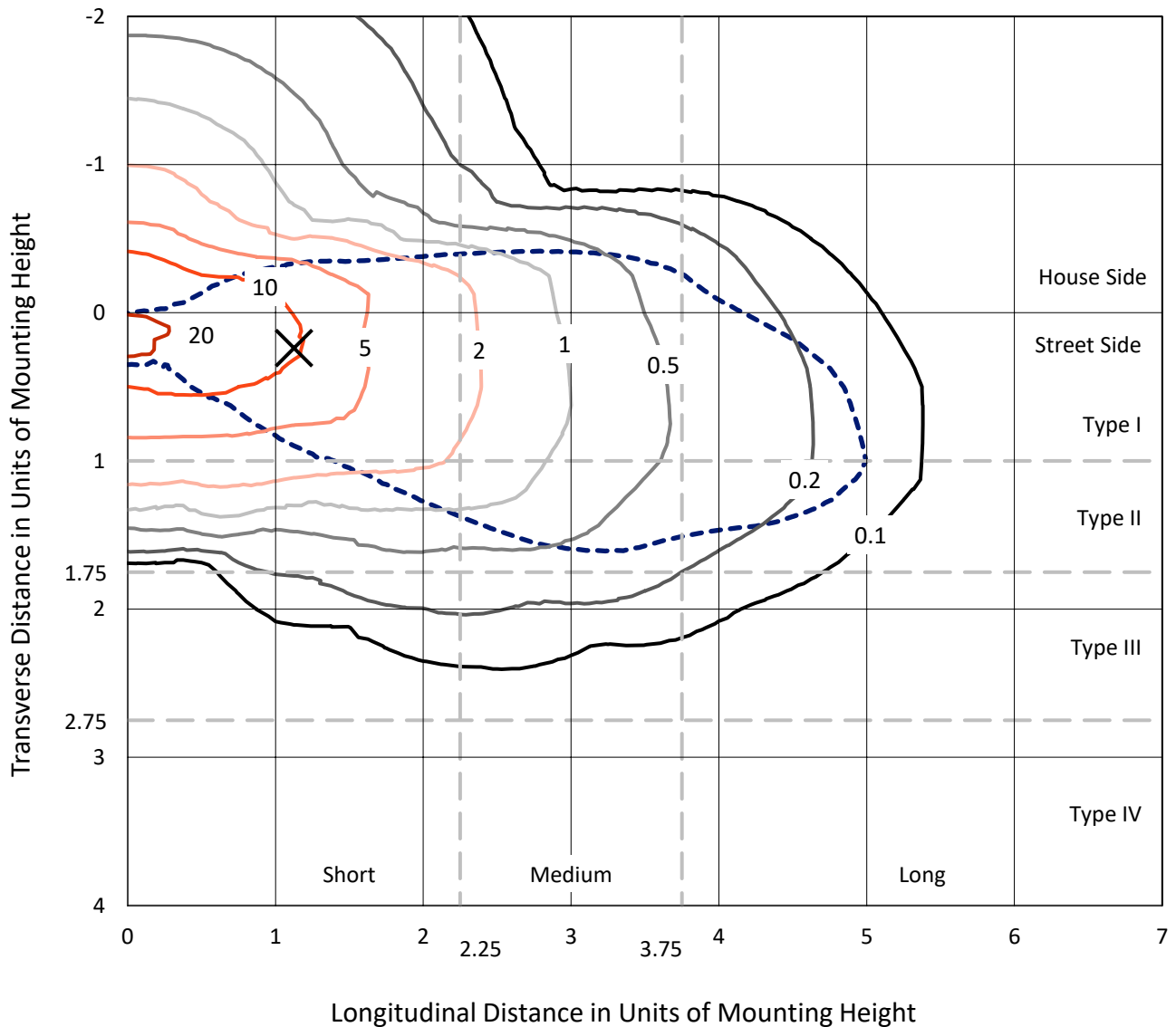
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

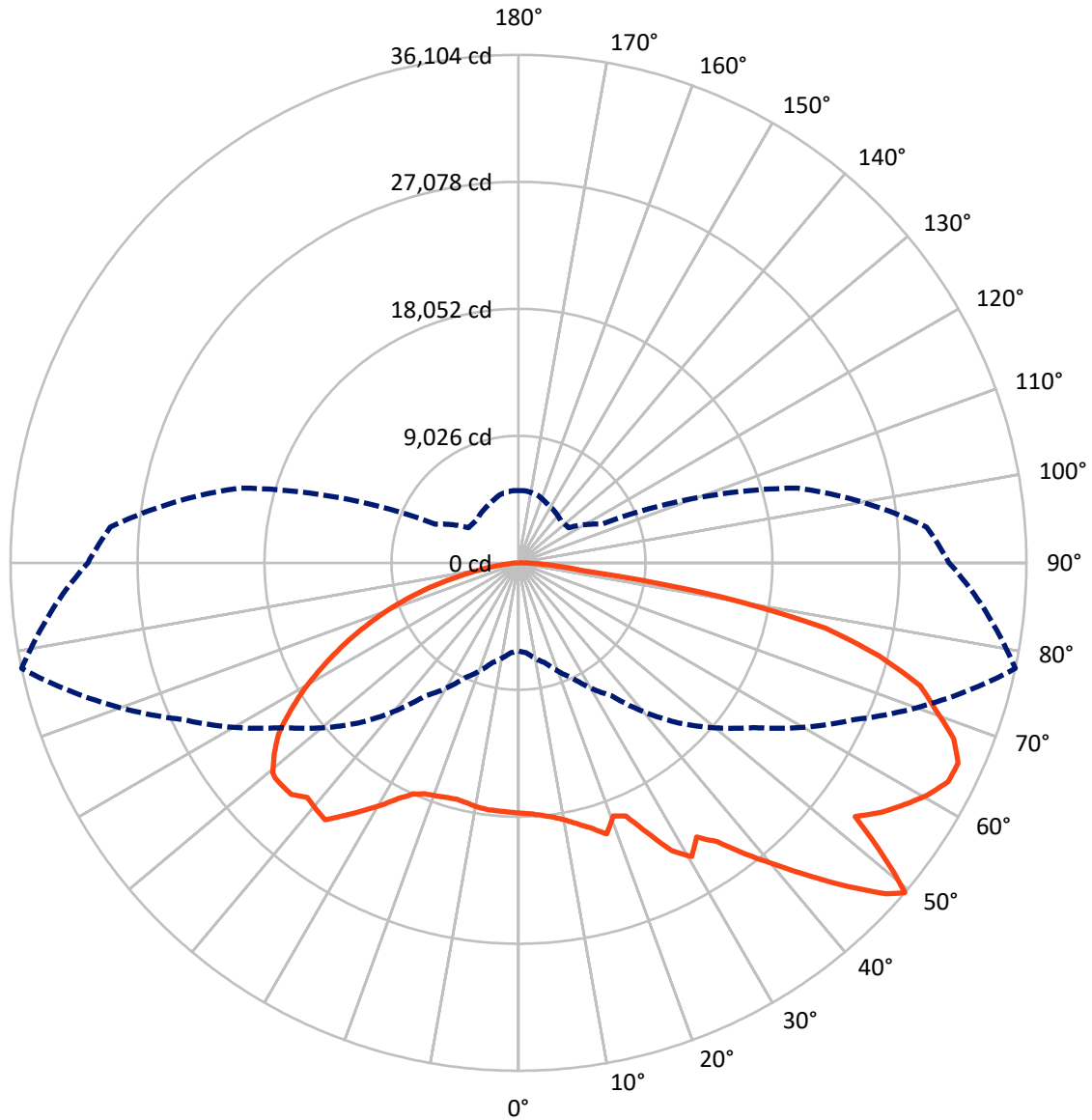
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 22.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 49-Deg Vertical

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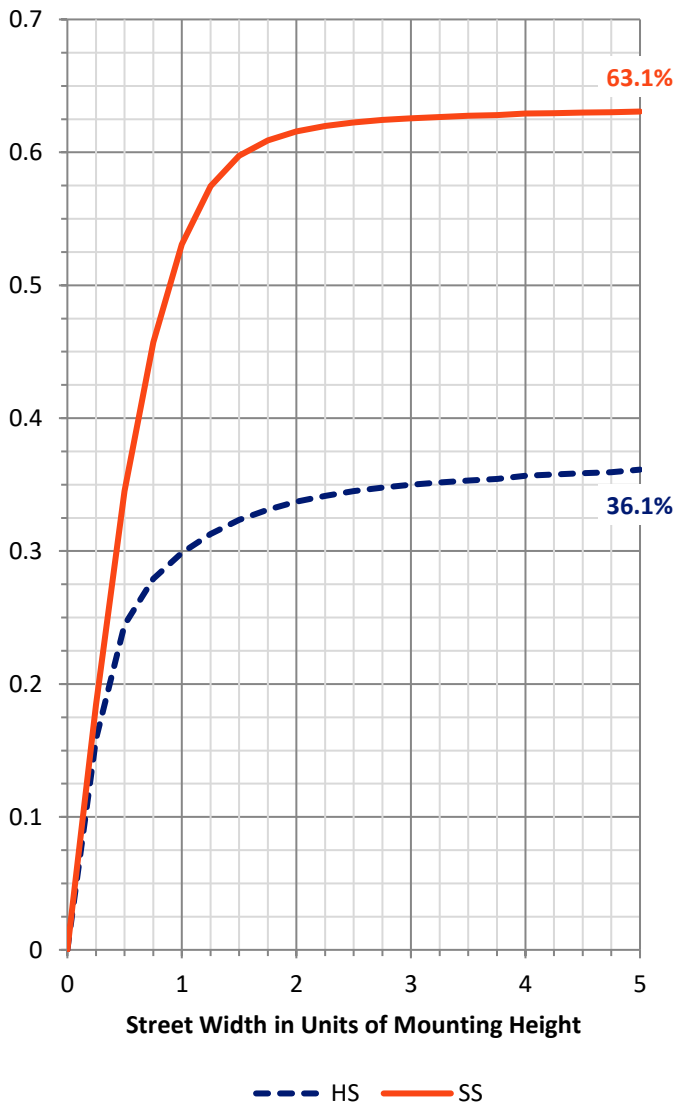
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23720.9	0.0	23720.9
	% Fixture	37.0	0.0	37.0
<b>Street Side</b>	Lumens	40344.1	0.0	40344.1
	% Fixture	63.0	0.0	63.0
<b>Total</b>	Lumens	64065.0	0.0	64065.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1724.4	2.7
10°-20°	5074.8	7.9
20°-30°	7244.3	11.3
30°-40°	9325.8	14.6
40°-50°	10939.3	17.1
50°-60°	11285.3	17.6
60°-70°	10246.9	16.0
70°-80°	6805.2	10.6
80°-90°	1419.0	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°	64065.0	100.0
0°-180°	64065.0	100.0

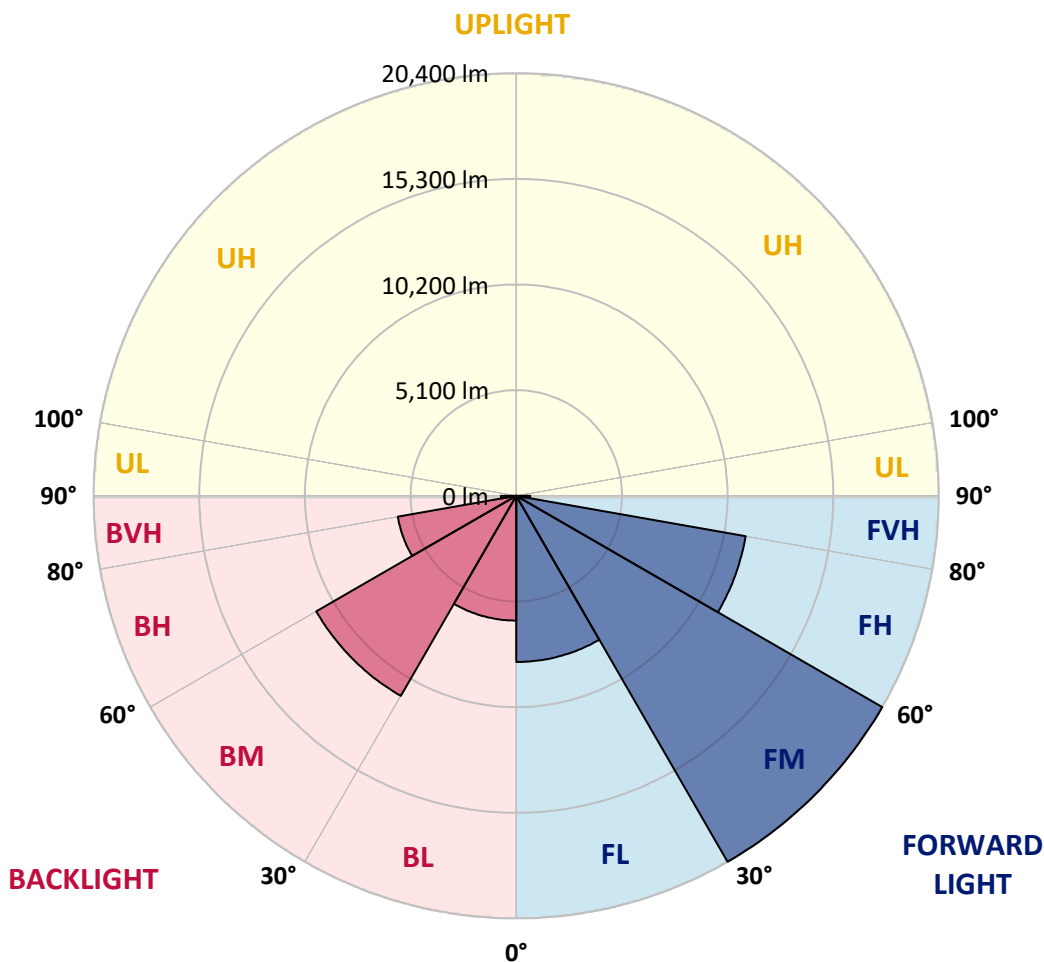


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8021.8	12.5			
FM (30°-60°)	20400.2	31.8			
FH (60°-80°)	11245.8	17.6			G4/12000
FVH (80°-90°)	676.3	1.1			G4/750
BL (0°-30°)	6021.8	9.4	B5		
BM (30°-60°)	11150.2	17.4	B5		
BH (60°-80°)	5806.3	9.1	B5		G5
BVH (80°-90°)	742.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2
2.5°	18517.6	18375.3	18420.6	18498.2	18145.8	18223.4	18071.5	18132.9	17945.4	17874.3	17906.6
5°	19826.9	19674.9	19729.9	19755.8	19245.0	19038.1	18562.8	18462.6	18168.4	18039.1	18026.2
7.5°	20473.4	20308.6	20321.5	20337.7	19930.3	19959.4	19529.5	19015.4	18469.1	18271.9	18184.6
10°	21537.0	21307.5	21229.9	21197.6	20648.0	20418.5	20043.5	19762.2	18908.8	18611.3	18388.3
12.5°	22193.3	22025.2	22025.2	21992.9	21411.0	21233.1	20564.0	20266.5	19426.0	19073.6	18688.9
15°	22312.9	22199.8	22345.2	22316.1	21934.7	21727.8	21430.4	20809.6	19949.7	19584.4	19131.8
17.5°	20961.6	20660.9	20085.5	20172.8	20176.0	20596.3	20392.6	20819.3	20567.2	20269.8	19781.6
20°	17214.8	17318.2	18239.6	18016.5	17932.4	18824.7	19736.4	19762.2	19261.1	19212.6	19872.1
22.5°	14997.0	14628.5	15653.3	17143.6	17237.4	18430.3	19493.9	20774.1	19972.3	19542.4	19038.1
25°	12772.9	12908.6	14453.9	16383.9	17748.2	18013.3	19235.3	21278.4	21621.1	21223.5	20169.6
27.5°	12388.2	12381.7	13054.1	15194.2	17993.9	18989.6	19393.7	20993.9	23383.0	23159.9	21828.0
30°	12304.1	12252.4	12604.8	14382.8	16852.7	19868.9	20638.3	21210.5	23244.0	24236.4	23683.6
32.5°	11935.6	11890.3	12265.3	13196.4	15937.8	20512.2	21824.8	22678.2	22772.0	23240.7	25642.7
35°	11356.9	11392.5	11912.9	12924.8	14615.6	18966.9	23040.3	24330.2	24669.6	24346.4	24679.3
37.5°	10765.3	10804.1	11314.9	12462.5	14386.0	18320.4	23825.9	25927.2	26632.0	26286.0	24747.2
40°	10031.4	10092.9	10684.5	11974.4	14120.9	16862.4	22212.7	27740.8	28697.7	28245.1	26531.7
42.5°	9197.4	9223.2	9895.7	11230.8	13784.7	16949.7	20547.8	29415.4	30702.1	30453.1	28290.4
45°	8473.2	8473.2	9084.2	10273.9	13018.6	16784.8	19843.0	28167.5	33162.2	32809.9	30052.3
47.5°	7487.2	7574.5	8292.2	9472.2	12116.6	16403.3	20247.1	25364.7	35454.3	35160.1	31820.6
49°	6271.7	6420.4	7367.6	9032.5	11537.9	16086.5	20408.8	26353.9	33873.5	36104.1	32968.3
50°	5773.8	5851.4	5861.1	8718.9	11108.0	15798.8	20483.1	27113.6	31206.4	34581.5	33773.2
52.5°	4997.9	4509.8	4008.7	7849.3	10244.8	14735.2	20528.4	29176.2	30566.3	29961.8	33146.1
55°	2111.0	2764.1	3514.1	6420.4	9313.7	13419.4	20379.7	31442.4	31972.6	31306.6	28419.7
57.5°	1597.0	1700.5	1888.0	4981.8	6672.5	11919.4	19878.6	32877.8	33159.0	32402.5	29573.8
60°	232.8	239.2	336.2	2020.5	3821.2	8508.8	18074.7	32835.7	34041.6	33459.7	30569.5
62.5°	97.0	100.2	129.3	1655.2	2945.1	6549.7	16500.3	32286.2	34898.3	34274.3	31503.8
65°	16.2	19.4	55.0	1464.5	2434.3	6119.7	14774.0	32396.1	34594.4	34335.8	31865.9
67.5°	12.9	16.2	51.7	1315.8	2007.6	5602.5	13070.3	30647.1	33485.5	33372.4	30899.3
70°	12.9	16.2	55.0	1189.7	1736.0	4936.5	10965.7	28225.7	31452.1	31497.3	29276.4
72.5°	16.2	16.2	55.0	1063.6	1509.7	4218.8	8676.9	24992.9	29606.1	29855.1	26968.2
75°	16.2	16.2	51.7	924.6	1296.4	3517.3	6249.0	18378.6	26551.1	26476.8	23651.3
77.5°	16.2	16.2	51.7	733.8	1076.5	2893.4	4070.1	10351.5	21986.4	22300.0	19775.1
80°	16.2	16.2	51.7	536.6	843.8	2169.2	2466.6	5298.6	11738.4	14531.5	13603.7
82.5°	16.2	16.2	51.7	362.1	578.7	1251.1	1422.4	2683.2	4215.6	4619.7	5405.3
85°	12.9	12.9	38.8	216.6	297.4	442.9	685.4	1428.9	2305.0	2408.4	2350.3
87.5°	6.5	6.5	19.4	77.6	129.3	161.6	307.1	575.4	847.0	866.4	753.2
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°	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2	17790.2
2.5°	17906.6	17803.1	17709.4	17725.5	17525.1	17466.9	17243.9	17360.2	17247.1	17146.9	17240.6
5°	17935.7	17809.6	17638.3	17473.4	17014.3	16801.0	16532.6	16600.5	16448.6	16329.0	16432.4
7.5°	18019.7	17864.6	17599.5	17130.7	16584.4	16244.9	15941.0	16238.4	16202.9	16112.4	16219.0
10°	18058.5	17926.0	17470.1	16920.6	16157.6	15944.3	15669.5	15666.2	15675.9	15692.1	15798.8
12.5°	18162.0	17961.5	17240.6	16600.5	15892.5	15459.3	15258.9	15420.5	15129.6	14958.2	15032.6
15°	18407.7	18042.4	17085.4	16151.2	15482.0	15123.1	14483.0	14538.0	14476.6	14308.5	14382.8
17.5°	18892.6	18268.7	17079.0	15866.7	14958.2	14373.1	13813.8	13548.7	13464.7	13477.6	13542.3
20°	19487.4	18669.5	17091.9	15501.4	14411.9	13733.0	12869.8	12685.6	12407.6	12414.0	12430.2
22.5°	19109.2	19131.8	17098.4	15084.3	13729.8	12879.5	11964.7	11602.6	11389.2	11334.3	11415.1
25°	20134.0	20030.5	17198.6	14861.3	13012.1	11870.9	10914.0	10451.7	10131.7	10105.8	10196.3
27.5°	21498.2	21310.7	17715.8	14379.6	12252.4	10661.8	9624.1	9275.0	9000.2	8903.2	8967.8
30°	23156.7	22936.8	18430.3	14004.6	11227.6	9362.2	8473.2	8234.0	7962.4	7784.6	7800.8
32.5°	24889.5	24420.7	19164.1	13687.8	10176.9	8224.3	7464.6	7251.2	6931.2	6701.6	6756.6
35°	26635.2	25969.2	19982.0	13128.5	8893.5	7222.1	6607.9	6320.2	6058.3	5851.4	5815.8
37.5°	25254.8	27779.6	20774.1	12608.0	7888.1	6459.2	5764.1	5560.4	5405.3	5243.6	5240.4
40°	25367.9	25946.6	21242.8	11686.6	6766.3	5676.8	4978.5	5049.7	5114.3	4991.5	4991.5
42.5°	26489.7	25665.3	21055.3	10464.6	5932.2	4894.5	4574.4	4862.2	5065.8	4978.5	4975.3
45°	28070.6	27000.5	21375.4	9087.5	5120.8	4412.8	4461.3	4813.7	5078.8	5062.6	5056.1
47.5°	29748.4	28519.9	20761.2	7451.6	4561.5	4264.1	4461.3	4742.5	5059.4	5133.7	5117.6
49°	30611.6	29121.2	20515.5	6498.0	4338.4	4244.7	4467.8	4684.4	5023.8	5136.9	5120.8
50°	31138.5	29444.5	20198.6	5954.9	4218.8	4247.9	4480.7	4648.8	4991.5	5117.6	5107.9
52.5°	32324.9	29935.9	18627.5	5010.9	4024.9	4257.6	4564.7	4613.2	4871.9	5007.6	5078.8
55°	31115.9	31057.7	16623.2	4577.7	3921.4	4235.0	4600.3	4645.6	4771.6	4846.0	4901.0
57.5°	30928.4	31545.8	14098.3	4344.9	3830.9	4202.7	4558.3	4642.3	4716.7	4703.8	4681.1
60°	31523.2	31972.6	11495.9	4115.4	3727.4	4150.9	4419.3	4542.1	4564.7	4532.4	4480.7
62.5°	31617.0	32089.0	8835.3	3882.6	3614.3	4024.9	4215.6	4338.4	4338.4	4257.6	4238.2
65°	31180.5	31361.6	6510.9	3614.3	3478.5	3879.4	3976.4	4066.9	4108.9	4002.2	4008.7
67.5°	29929.4	28882.0	4943.0	3294.2	3313.6	3678.9	3746.8	3808.3	3818.0	3756.5	3750.1
70°	27414.3	26108.2	3533.5	2809.3	3013.0	3362.1	3465.6	3559.3	3527.0	3420.3	3404.2
72.5°	23622.2	22461.6	2402.0	2250.0	2650.9	3058.2	3122.9	3126.1	3061.5	3139.1	3194.0
75°	20321.5	17544.5	1791.0	1794.2	2124.0	2638.0	2838.4	2854.6	2883.7	3310.4	3397.7
77.5°	16147.9	11431.2	1525.9	1416.0	1629.3	2195.1	2511.9	2628.3	3488.2	3782.4	3743.6
80°	9918.3	6863.3	1183.2	1121.8	1325.5	1687.5	2159.5	2686.5	3559.3	3346.0	3232.8
82.5°	4645.6	3132.6	853.5	859.9	986.0	1231.7	1706.9	3126.1	3074.4	2537.8	2505.4
85°	1797.4	1083.0	517.3	585.1	662.7	834.1	1309.3	3084.1	2389.1	2149.8	1991.4
87.5°	462.3	210.1	226.3	239.2	294.2	439.7	714.5	1616.4	1257.6	1102.4	1083.0
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)