

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: P591134

Luminaire Tested: **CTN-CA10-760-722-U-T2-SSS-HM-EX120**

Issue Date: 1/19/2022

Test Information

Test Method: LM-79-08
Report Number: P591134
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-CA10-760-722-U-T2-SSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53176 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

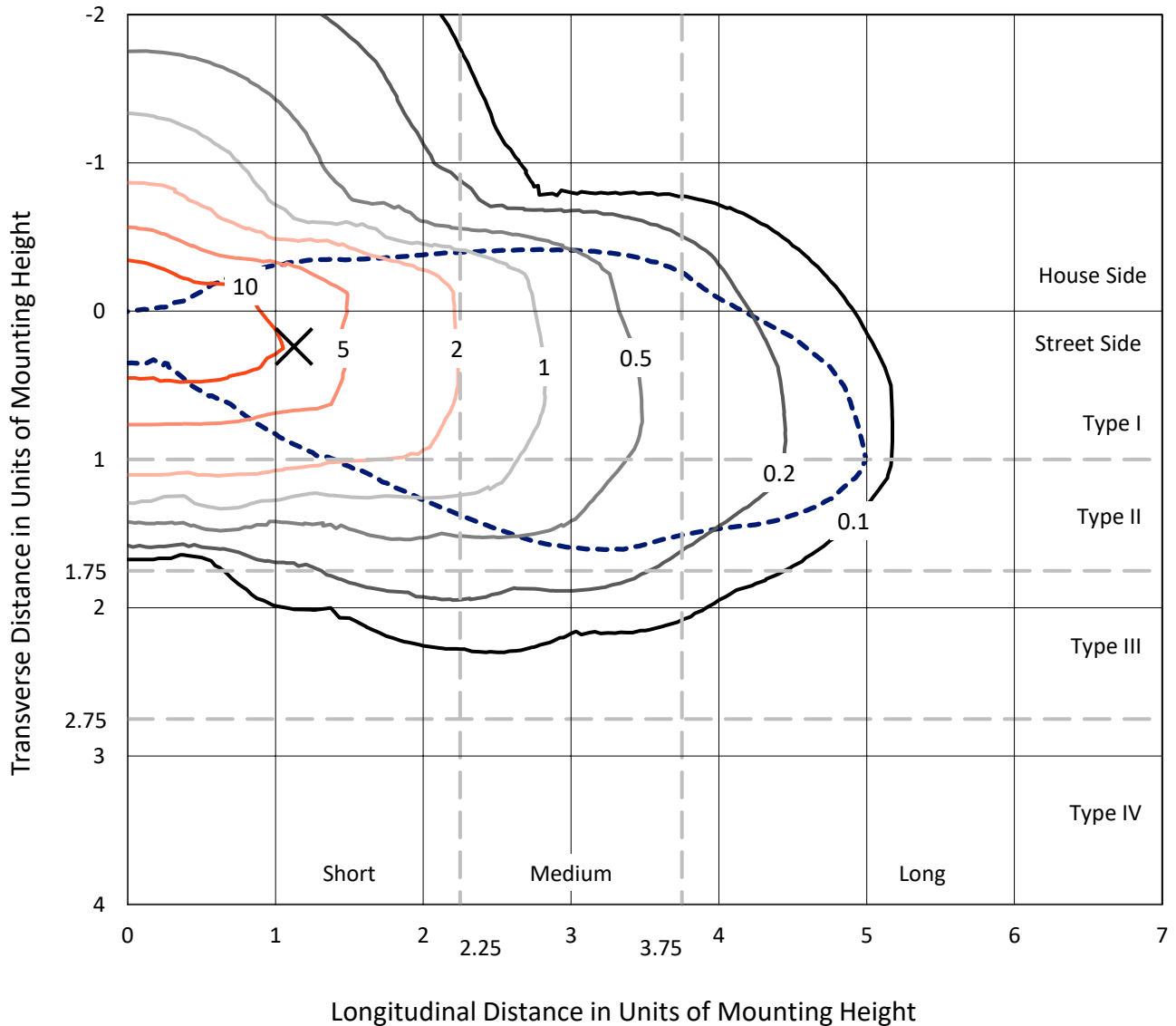
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

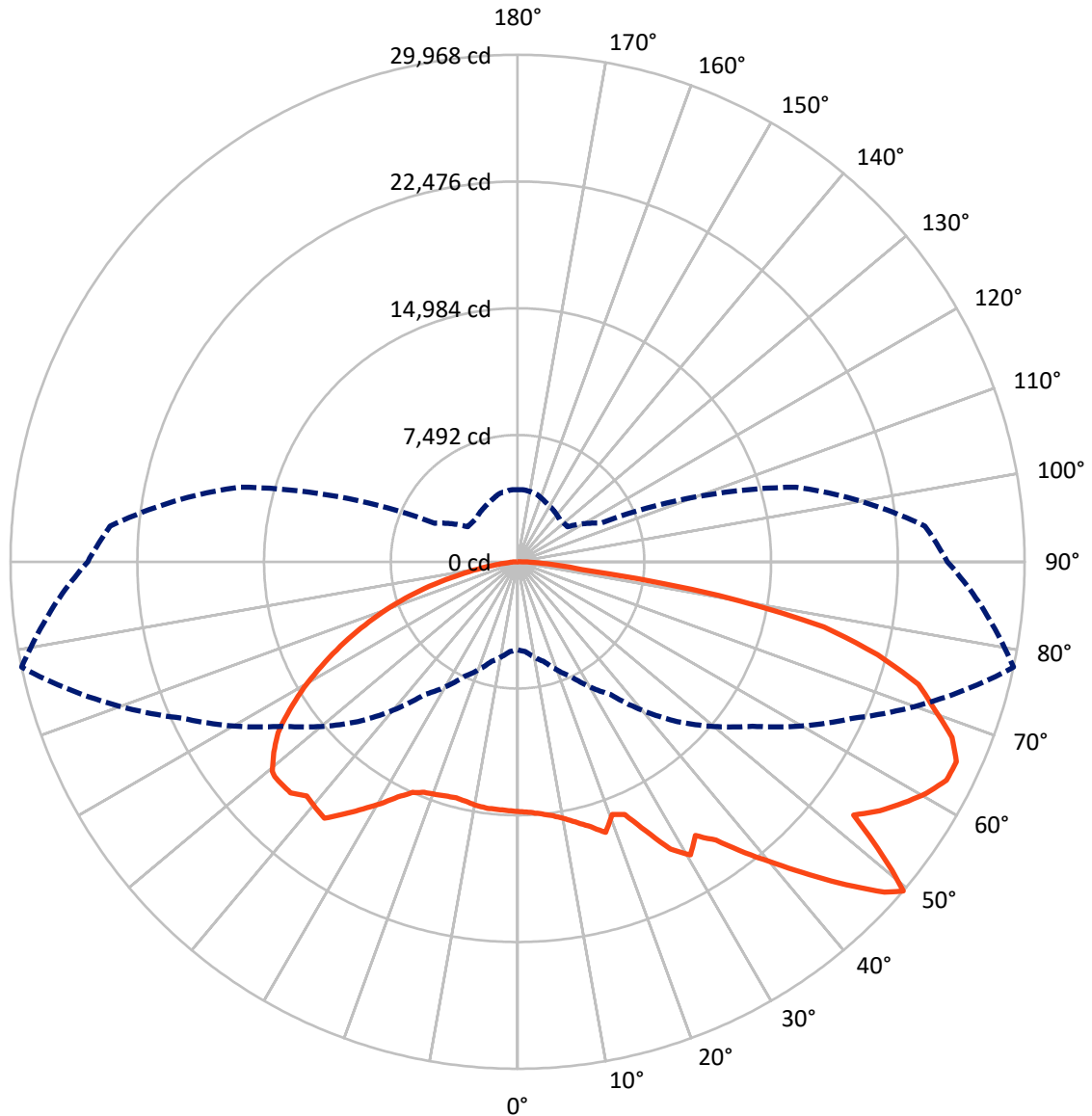
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.8 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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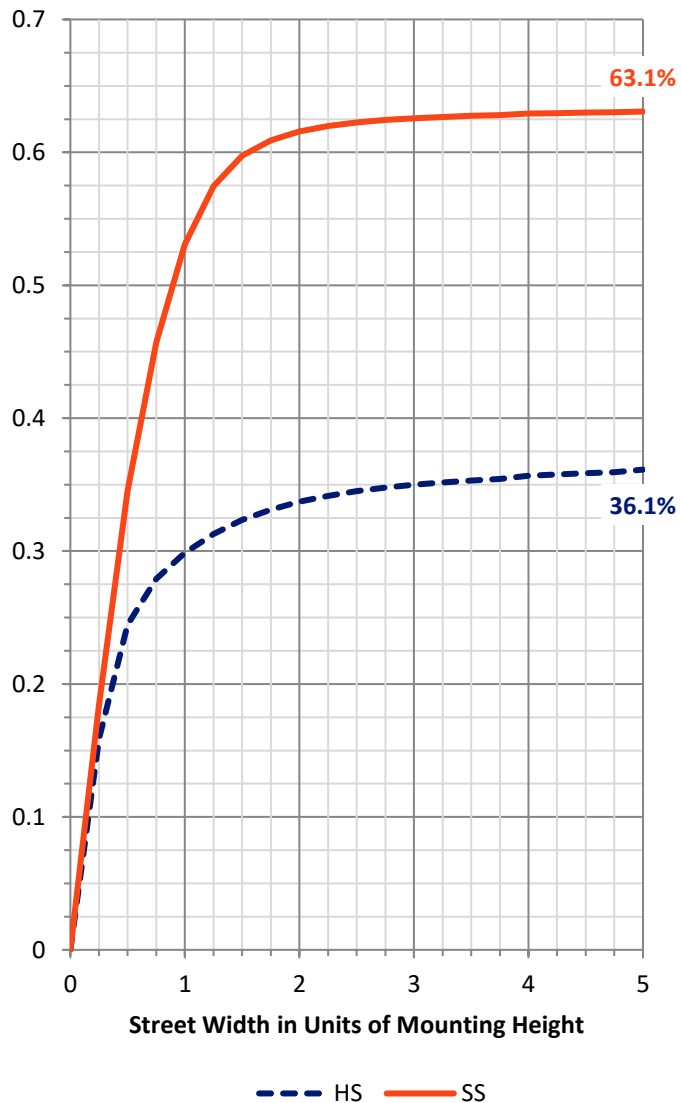
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19689.1	0.0	19689.1
	% Fixture	37.0	0.0	37.0
Street Side	Lumens	33486.9	0.0	33486.9
	% Fixture	63.0	0.0	63.0
Total	Lumens	53176.0	0.0	53176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1431.3	2.7
10°-20°	4212.3	7.9
20°-30°	6013.0	11.3
30°-40°	7740.7	14.6
40°-50°	9079.9	17.1
50°-60°	9367.1	17.6
60°-70°	8505.3	16.0
70°-80°	5648.5	10.6
80°-90°	1177.8	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°	53176.0	100.0
0°-180°	53176.0	100.0

Coefficient of Utilization

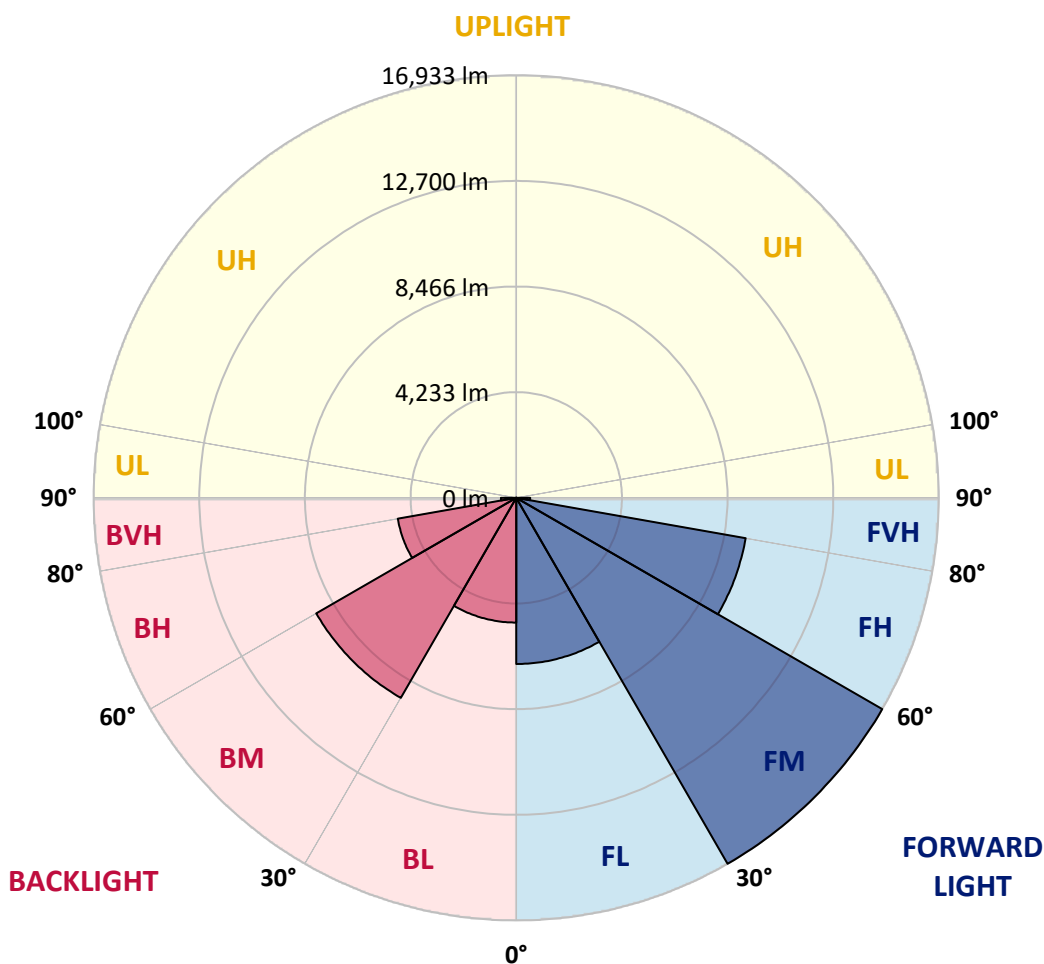


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6658.4	12.5			
FM (30°-60°)	16932.8	31.8			
FH (60°-80°)	9334.4	17.6			G4/12000
FVH (80°-90°)	561.3	1.1			G4/750
BL (0°-30°)	4998.3	9.4	B4/5000		
BM (30°-60°)	9255.0	17.4	B5		
BH (60°-80°)	4819.4	9.1	B4/5000		G4/5000
BVH (80°-90°)	616.5	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4
2.5°	15370.2	15252.1	15289.7	15354.1	15061.6	15126.0	14999.9	15050.9	14895.2	14836.2	14863.0
5°	16456.9	16330.8	16376.4	16397.9	15973.9	15802.2	15407.8	15324.6	15080.4	14973.1	14962.3
7.5°	16993.6	16856.8	16867.5	16880.9	16542.8	16567.0	16210.1	15783.4	15329.9	15166.3	15093.8
10°	17876.4	17685.9	17621.5	17594.7	17138.5	16948.0	16636.7	16403.3	15694.9	15448.0	15262.9
12.5°	18421.1	18281.6	18281.6	18254.8	17771.8	17624.2	17068.7	16821.9	16124.2	15831.7	15512.4
15°	18520.4	18426.5	18547.3	18523.1	18206.5	18034.7	17787.9	17272.7	16558.9	16255.7	15880.0
17.5°	17398.8	17149.2	16671.6	16744.1	16746.7	17095.6	16926.5	17280.7	17071.4	16824.6	16419.4
20°	14288.8	14374.7	15139.4	14954.3	14884.5	15625.1	16381.8	16403.3	15987.4	15947.1	16494.5
22.5°	12448.0	12142.1	12992.7	14229.8	14307.6	15297.7	16180.6	17243.2	16577.7	16220.8	15802.2
25°	10601.9	10714.6	11997.2	13599.2	14731.5	14951.6	15965.9	17661.8	17946.2	17616.1	16741.4
27.5°	10282.6	10277.2	10835.3	12611.7	14935.5	15762.0	16097.4	17425.6	19408.6	19223.5	18117.9
30°	10212.8	10169.9	10462.4	11938.2	13988.3	16491.8	17130.5	17605.4	19293.2	20117.0	19658.2
32.5°	9906.9	9869.3	10180.6	10953.4	13228.9	17025.8	18115.2	18823.6	18901.5	19290.5	21284.3
35°	9426.6	9456.1	9888.1	10728.0	12131.4	15743.2	19124.2	20194.8	20476.6	20208.3	20484.6
37.5°	8935.5	8967.7	9391.7	10344.3	11940.9	15206.5	19776.2	21520.4	22105.4	21818.3	20541.0
40°	8326.4	8377.4	8868.4	9939.1	11720.8	13996.3	18437.2	23025.8	23820.0	23444.4	22022.2
42.5°	7634.1	7655.6	8213.7	9321.9	11441.8	14068.8	17055.3	24415.7	25483.7	25277.1	23481.9
45°	7033.0	7033.0	7540.2	8527.7	10805.8	13931.9	16470.4	23380.0	27525.7	27233.2	24944.4
47.5°	6214.6	6287.1	6882.8	7862.2	10057.2	13615.3	16805.8	21053.5	29428.2	29184.0	26412.1
49°	5205.7	5329.1	6115.3	7497.3	9576.8	13352.3	16939.9	21874.6	28116.1	29967.6	27364.7
50°	4792.4	4856.8	4864.9	7237.0	9220.0	13113.5	17001.7	22505.2	25902.3	28703.7	28032.9
52.5°	4148.4	3743.3	3327.3	6515.2	8503.5	12230.7	17039.2	24217.2	25371.0	24869.2	27512.3
55°	1752.2	2294.3	2916.8	5329.1	7730.7	11138.6	16915.8	26098.2	26538.3	25985.5	23589.3
57.5°	1325.6	1411.4	1567.1	4135.0	5538.4	9893.5	16499.9	27289.6	27523.0	26895.1	24547.2
60°	193.2	198.6	279.1	1677.1	3171.7	7062.6	15002.6	27254.7	28255.6	27772.6	25373.7
62.5°	80.5	83.2	107.3	1373.9	2444.5	5436.5	13695.8	26798.5	28966.7	28448.8	26149.2
65°	13.4	16.1	45.6	1215.6	2020.6	5079.6	12262.9	26889.8	28714.4	28499.8	26449.7
67.5°	10.7	13.4	42.9	1092.1	1666.4	4650.2	10848.8	25438.1	27794.1	27700.1	25647.4
70°	10.7	13.4	45.6	987.5	1441.0	4097.5	9101.9	23428.3	26106.2	26143.8	24300.3
72.5°	13.4	13.4	45.6	882.8	1253.1	3501.8	7202.1	20744.9	24574.0	24780.7	22384.4
75°	13.4	13.4	42.9	767.4	1076.0	2919.5	5186.9	15254.8	22038.3	21976.6	19631.3
77.5°	13.4	13.4	42.9	609.1	893.6	2401.6	3378.3	8592.1	18249.4	18509.7	16414.0
80°	13.4	13.4	42.9	445.4	700.4	1800.5	2047.4	4398.0	9743.2	12061.6	11291.5
82.5°	13.4	13.4	42.9	300.5	480.3	1038.5	1180.7	2227.2	3499.1	3834.5	4486.5
85°	10.7	10.7	32.2	179.8	246.9	367.6	568.9	1186.0	1913.2	1999.1	1950.8
87.5°	5.4	5.4	16.1	64.4	107.3	134.2	254.9	477.6	703.0	719.1	625.2
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°	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4	14766.4
2.5°	14863.0	14777.2	14699.3	14712.8	14546.4	14498.1	14312.9	14409.5	14315.6	14232.4	14310.3
5°	14887.2	14782.5	14640.3	14503.5	14122.4	13945.3	13722.6	13779.0	13652.8	13553.6	13639.4
7.5°	14957.0	14828.2	14608.1	14219.0	13765.5	13483.8	13231.6	13478.4	13448.9	13373.8	13462.3
10°	14989.2	14879.1	14500.8	14044.6	13411.3	13234.2	13006.2	13003.5	13011.5	13024.9	13113.5
12.5°	15075.0	14908.7	14310.3	13779.0	13191.3	12831.7	12665.4	12799.5	12558.0	12415.8	12477.5
15°	15279.0	14975.7	14181.5	13406.0	12850.5	12552.7	12021.4	12067.0	12016.0	11876.5	11938.2
17.5°	15681.5	15163.6	14176.1	13169.8	12415.8	11930.1	11465.9	11245.9	11176.1	11186.9	11240.5
20°	16175.2	15496.3	14186.8	12866.6	11962.3	11398.8	10682.4	10529.4	10298.7	10304.0	10317.5
22.5°	15861.2	15880.0	14192.2	12520.5	11396.2	10690.4	9931.1	9630.5	9453.4	9407.8	9474.9
25°	16711.9	16626.0	14275.4	12335.3	10800.5	9853.2	9059.0	8675.2	8409.6	8388.1	8463.3
27.5°	17844.2	17688.6	14704.7	11935.5	10169.9	8849.7	7988.3	7698.5	7470.4	7389.9	7443.6
30°	19220.8	19038.3	15297.7	11624.2	9319.2	7771.0	7033.0	6834.5	6609.1	6461.5	6474.9
32.5°	20659.1	20270.0	15906.9	11361.3	8447.2	6826.4	6195.8	6018.7	5753.1	5562.6	5608.2
35°	22108.1	21555.3	16585.7	10897.1	7381.9	5994.6	5484.8	5245.9	5028.6	4856.8	4827.3
37.5°	20962.3	23058.0	17243.2	10465.0	6547.4	5361.3	4784.4	4615.3	4486.5	4352.4	4349.7
40°	21056.2	21536.5	17632.2	9700.3	5616.2	4711.9	4132.3	4191.4	4245.0	4143.1	4143.1
42.5°	21987.3	21303.1	17476.6	8686.0	4923.9	4062.6	3796.9	4035.7	4204.8	4132.3	4129.7
45°	23299.5	22411.3	17742.3	7542.9	4250.4	3662.8	3703.0	3995.5	4215.5	4202.1	4196.7
47.5°	24692.1	23672.4	17232.4	6185.1	3786.2	3539.3	3703.0	3936.5	4199.4	4261.1	4247.7
49°	25408.6	24171.5	17028.5	5393.5	3601.0	3523.2	3708.4	3888.2	4169.9	4263.8	4250.4
50°	25846.0	24439.9	16765.5	4942.7	3501.8	3525.9	3719.1	3858.6	4143.1	4247.7	4239.7
52.5°	26830.7	24847.8	15461.4	4159.2	3340.8	3534.0	3788.9	3829.1	4043.8	4156.5	4215.5
55°	25827.2	25778.9	13797.7	3799.6	3254.9	3515.2	3818.4	3856.0	3960.6	4022.3	4067.9
57.5°	25671.5	26184.1	11702.1	3606.4	3179.8	3488.3	3783.5	3853.3	3915.0	3904.3	3885.5
60°	26165.3	26538.3	9542.0	3415.9	3093.9	3445.4	3668.1	3770.1	3788.9	3762.0	3719.1
62.5°	26243.1	26634.9	7333.6	3222.7	3000.0	3340.8	3499.1	3601.0	3601.0	3534.0	3517.9
65°	25880.8	26031.1	5404.3	3000.0	2887.3	3220.0	3300.5	3375.6	3410.5	3322.0	3327.3
67.5°	24842.4	23973.0	4102.8	2734.3	2750.4	3053.6	3110.0	3161.0	3169.0	3118.0	3112.7
70°	22754.7	21670.7	2932.9	2331.8	2500.9	2790.7	2876.5	2954.4	2927.5	2839.0	2825.6
72.5°	19607.2	18643.9	1993.7	1867.6	2200.3	2538.4	2592.1	2594.8	2541.1	2605.5	2651.1
75°	16867.5	14562.5	1486.6	1489.3	1763.0	2189.6	2356.0	2369.4	2393.5	2747.7	2820.2
77.5°	13403.3	9488.3	1266.5	1175.3	1352.4	1822.0	2085.0	2181.6	2895.3	3139.5	3107.3
80°	8232.5	5696.7	982.1	931.1	1100.2	1400.7	1792.5	2229.9	2954.4	2777.3	2683.3
82.5°	3856.0	2600.2	708.4	713.8	818.4	1022.4	1416.8	2594.8	2551.9	2106.4	2079.6
85°	1491.9	898.9	429.3	485.7	550.1	692.3	1086.8	2559.9	1983.0	1784.4	1652.9
87.5°	383.7	174.4	187.8	198.6	244.2	364.9	593.0	1341.7	1043.8	915.0	898.9
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)