

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: P591425

Luminaire Tested: **CTN-CA10-760-740-U-T3-SSS-HM-EX120**

Issue Date: 1/19/2022

Test Information

Test Method: LM-79-08
Report Number: P591425
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-CA10-760-740-U-T3-SSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE, 120D FIELD INSTALLED SHIELD ON STREET SIDE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63703 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 2.08' x H: 1')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

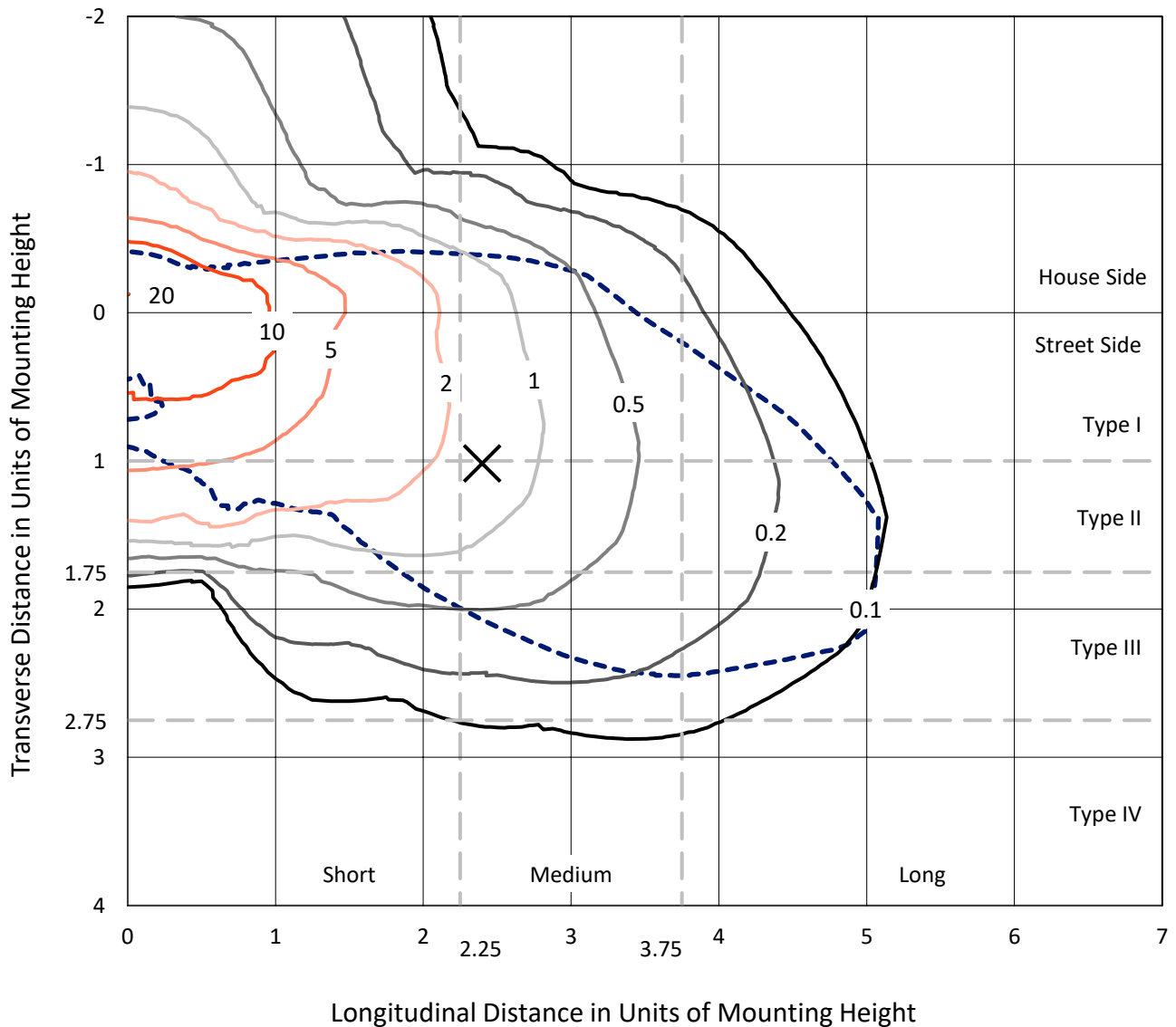
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

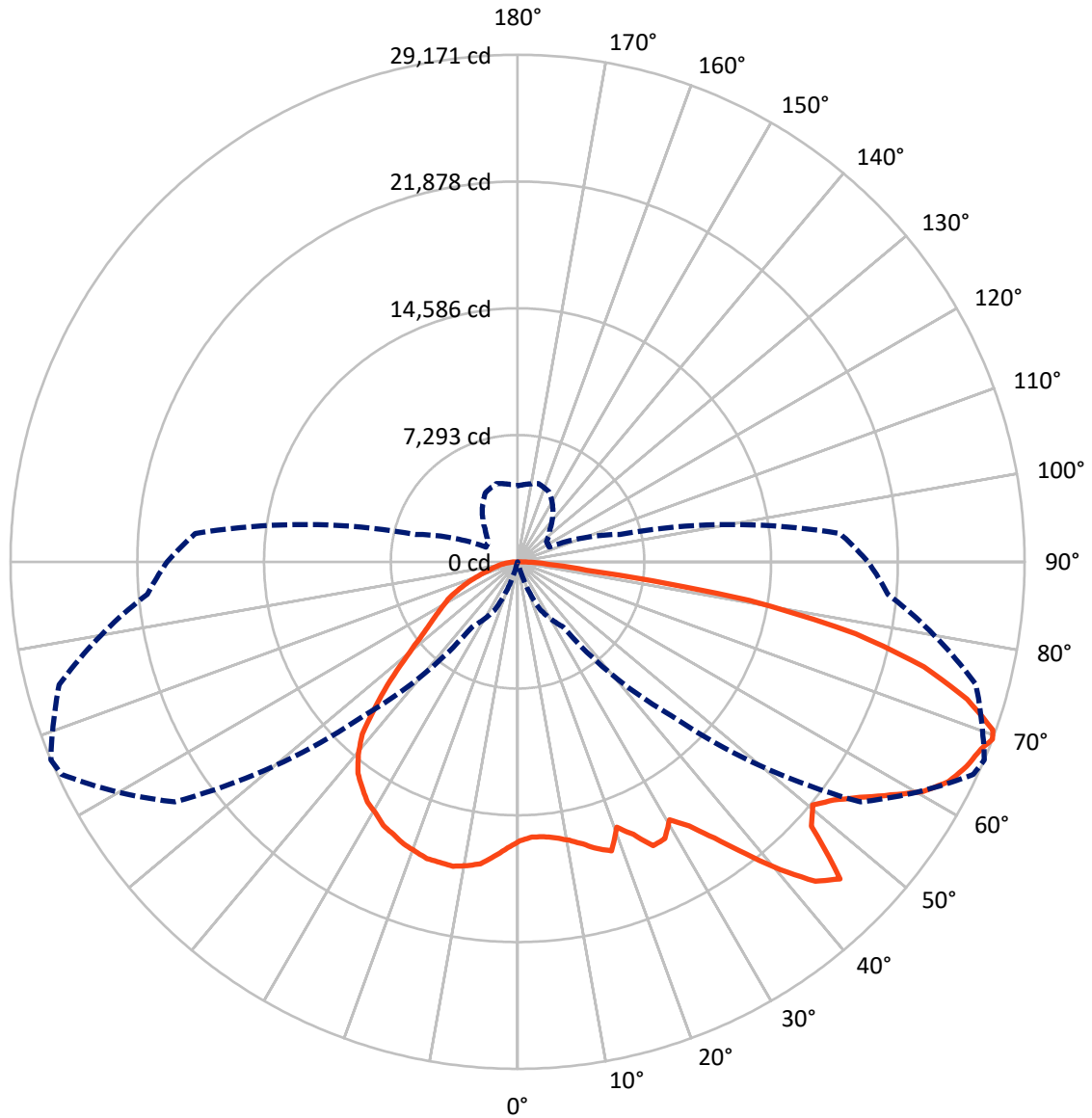
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20 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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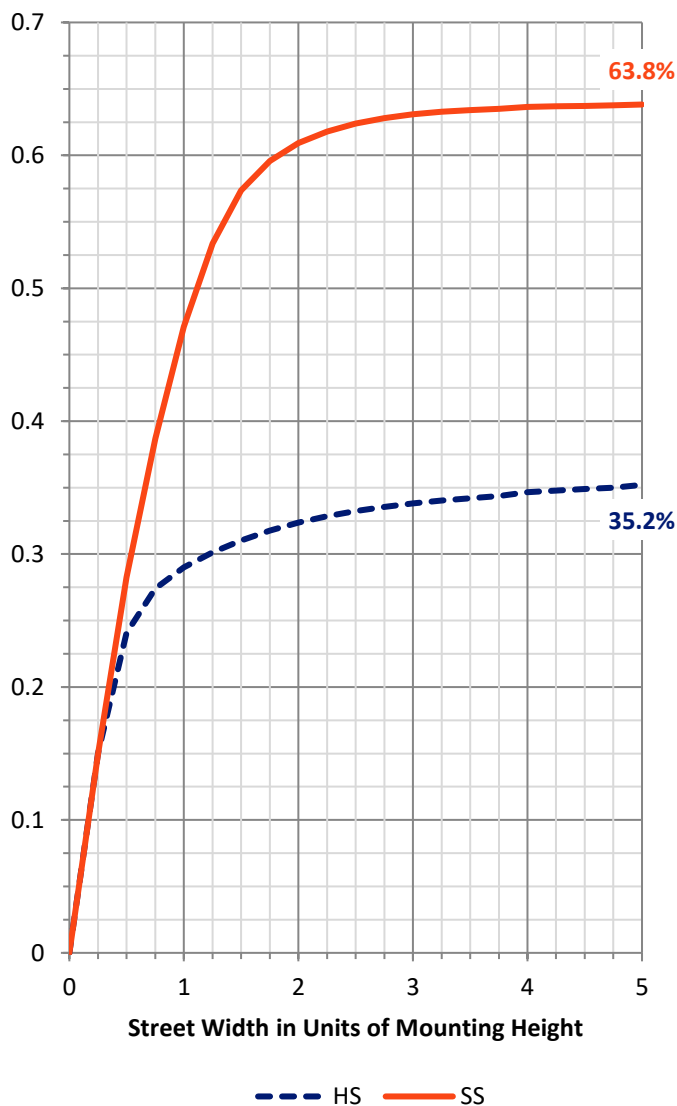
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23045.9	0.0	23045.9
	% Fixture	36.2	0.0	36.2
Street Side	Lumens	40657.1	0.0	40657.1
	% Fixture	63.8	0.0	63.8
Total	Lumens	63703.0	0.0	63703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1604.8	2.5
10°-20°	4954.5	7.8
20°-30°	7312.5	11.5
30°-40°	9187.7	14.4
40°-50°	10776.7	16.9
50°-60°	11277.0	17.7
60°-70°	10074.8	15.8
70°-80°	7090.7	11.1
80°-90°	1424.3	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°	63703.0	100.0
0°-180°	63703.0	100.0

Coefficient of Utilization

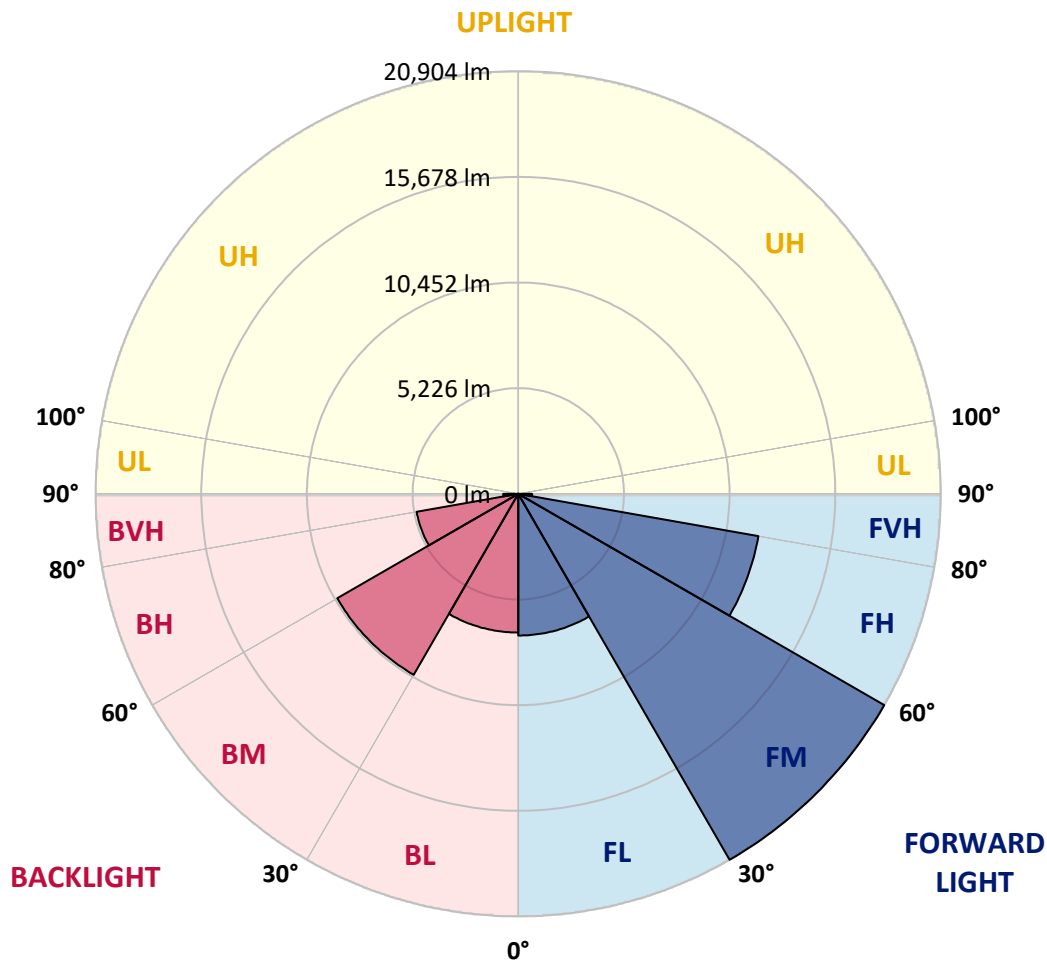


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7010.3	11.0			
FM (30°-60°)	20904.4	32.8			
FH (60°-80°)	12061.8	18.9			G5
FVH (80°-90°)	680.6	1.1			G4/750
BL (0°-30°)	6861.5	10.8	B5		
BM (30°-60°)	10337.0	16.2	B5		
BH (60°-80°)	5103.7	8.0	B5		G5
BVH (80°-90°)	743.6	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°	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3
2.5°	15665.4	15573.2	15616.0	15737.8	15484.3	15665.4	15599.5	15783.9	15853.1	15843.2	16106.6
5°	15790.5	15688.4	15704.9	15797.1	15520.5	15662.1	15599.5	15803.7	15882.7	15859.6	16218.5
7.5°	16235.0	16123.0	16086.8	16116.5	15816.8	15925.5	15790.5	15955.1	16040.7	16040.7	16449.0
10°	16936.3	16801.3	16722.3	16719.0	16366.7	16317.3	16152.7	16228.4	16291.0	16343.6	16798.0
12.5°	17670.5	17558.5	17456.5	17400.5	16936.3	16821.0	16580.7	16636.7	16656.4	16728.8	17179.9
15°	18338.8	18226.9	18197.3	18108.4	17647.4	17456.5	17120.6	17094.3	17120.6	17163.5	17611.2
17.5°	18082.0	18088.6	18253.2	18269.7	17670.5	17229.3	16995.5	17440.0	17482.8	17821.9	18111.7
20°	17594.8	17354.4	16491.8	16021.0	16090.1	16663.0	16238.3	16218.5	16307.4	16909.9	18378.4
22.5°	14654.6	14522.9	14997.0	15148.5	15695.0	15912.3	16923.1	16949.4	17038.3	17038.3	17466.4
25°	12652.8	13334.4	14256.2	15902.4	15731.2	15774.0	16185.6	17933.9	18101.8	18098.5	18035.9
27.5°	13080.8	12995.2	14374.8	15408.6	16630.1	16554.4	16106.6	17295.1	18039.2	19316.7	19020.4
30°	13594.5	13531.9	13634.0	15382.2	17407.1	17509.2	17094.3	16972.5	17226.0	19909.3	20146.4
32.5°	14071.9	13996.1	14111.4	14378.1	16317.3	18493.6	18174.2	18026.1	18118.3	18658.2	21595.1
35°	14493.3	14486.7	14618.4	14934.5	16587.3	18836.0	19280.5	19270.6	19517.5	19981.8	21805.8
37.5°	14792.9	14789.6	14895.0	15263.7	15635.8	17397.2	20317.6	20906.9	21302.0	21990.2	21302.0
40°	14789.6	14842.3	15118.8	15593.0	16086.8	16616.9	20775.2	22829.7	23303.8	23794.4	22648.6
42.5°	14480.1	14509.7	14997.0	15876.1	16488.5	16946.1	18957.8	24597.8	25127.8	25091.6	23708.8
45°	14193.7	14206.8	14750.1	15830.0	16824.3	17650.7	18585.8	24591.2	26023.4	26247.3	24706.4
47.5°	13821.6	13821.6	14358.3	15563.3	17127.2	18444.2	19580.1	21242.8	22737.5	27248.2	25532.8
50°	13344.2	13403.5	12745.0	15286.8	17272.1	19198.2	20423.0	21792.6	22000.0	24367.3	26300.0
52.5°	12583.7	12550.8	9959.6	14980.6	17331.4	19744.7	21298.7	22651.9	22763.9	22526.8	25549.3
55°	7931.5	8843.5	8807.3	14621.7	17295.1	20097.0	21970.4	23596.9	23912.9	23623.2	21493.0
57.5°	4790.5	4573.2	7526.5	13594.5	13890.8	20370.3	22882.4	25032.4	25308.9	24637.3	21855.2
60°	1870.1	1764.7	1906.3	6186.5	9966.2	18951.2	24123.7	26556.8	26820.2	25602.0	22161.4
62.5°	233.8	200.8	171.2	4283.5	6334.6	14078.4	24782.1	27784.8	27834.2	26300.0	22220.6
65°	32.9	36.2	65.8	3819.2	5755.2	13838.1	25012.6	28285.3	28387.4	26803.7	22019.8
67.5°	13.2	16.5	52.7	3322.1	5050.6	13199.4	24443.0	28631.0	28749.5	27291.0	21825.5
69°	13.2	16.5	49.4	2745.9	4194.6	11898.9	23725.3	28818.7	29006.3	27037.5	20887.2
70°	13.2	16.5	49.4	2113.7	3190.4	9554.6	21496.3	27139.5	27044.0	25378.1	18964.4
72.5°	13.2	16.5	49.4	1484.9	2212.5	6795.6	18141.3	24100.6	24143.4	22592.7	15951.8
75°	16.5	16.5	49.4	944.9	1396.0	3931.2	13136.8	19764.5	19886.3	18822.8	11944.9
77.5°	16.5	16.5	49.4	431.3	865.9	2054.5	6459.8	12880.0	13535.2	12636.4	6555.2
80°	16.5	16.5	49.4	270.0	474.1	925.2	2548.3	4039.8	4000.3	3937.7	2084.1
82.5°	13.2	13.2	36.2	191.0	316.1	536.7	1415.7	1810.8	1787.8	1583.7	1076.6
85°	6.6	6.6	19.8	79.0	131.7	243.6	707.9	823.1	783.6	671.7	460.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3	16047.3
2.5°	16228.4	16251.4	16360.1	16501.7	16544.5	16728.8	16758.5	17061.4	17107.5	17183.2	17216.1
5°	16393.0	16481.9	16719.0	17051.5	17334.7	17624.4	17634.3	18003.0	18098.5	18078.7	18174.2
7.5°	16626.8	16774.9	17137.1	17598.1	17700.1	18075.5	18049.1	18414.6	18421.2	18368.5	18513.3
10°	16985.7	17170.0	17499.3	17782.4	17976.7	18220.3	18187.4	18533.1	18483.7	18427.7	18589.1
12.5°	17354.4	17449.9	17650.7	17966.8	18009.6	18095.2	18052.4	18371.8	18319.1	18250.0	18408.0
15°	17677.1	17723.2	17723.2	17894.4	17785.7	17854.9	17710.0	17966.8	17845.0	17812.1	17963.5
17.5°	18095.2	18019.5	17864.7	17851.6	17568.4	17463.1	17245.8	17314.9	17084.4	17107.5	17186.5
20°	18566.0	18398.1	17989.9	17581.6	17058.1	16807.9	16376.6	16343.6	16129.6	16090.1	16165.8
22.5°	18740.5	18888.7	18141.3	17351.1	16449.0	15889.3	15379.0	15135.3	14822.5	14621.7	14648.0
25°	19270.6	19537.3	18371.8	16939.6	15731.2	14809.4	14042.2	13485.8	13015.0	12774.6	12824.0
27.5°	19988.4	20423.0	18503.5	16653.1	14789.6	13584.6	12300.5	11569.6	11082.3	10832.1	10825.5
30°	21015.6	21562.1	18757.0	16053.9	13742.6	11974.6	10390.9	9528.3	9129.9	8965.3	8978.5
32.5°	22299.6	22958.1	19283.8	15553.5	12603.4	10252.6	8448.4	7694.4	7513.3	7483.7	7467.2
35°	24001.8	24653.7	19701.9	14783.0	11125.1	8300.2	6782.4	6249.0	6278.7	6272.1	6291.8
37.5°	23725.3	26197.9	20179.3	14029.1	9357.1	6505.8	5481.9	5182.3	5192.2	5307.4	5330.4
40°	22684.9	24848.0	20890.5	12781.2	7289.4	4997.9	4323.0	4253.8	4537.0	4790.5	4836.6
42.5°	23501.4	24034.8	20986.0	11434.6	5333.7	3832.4	3615.1	3901.5	4359.2	4652.2	4704.9
45°	24317.9	24749.2	20432.8	9419.6	3825.8	3279.3	3440.6	3852.1	4359.2	4672.0	4708.2
47.5°	25147.6	25144.3	19787.5	7552.8	3127.8	3134.4	3397.8	3855.4	4385.5	4701.6	4721.3
50°	25674.4	25463.7	18101.8	5916.5	2910.5	3048.8	3374.7	3875.2	4378.9	4609.4	4619.3
52.5°	25937.8	25625.0	16613.6	4727.9	2808.4	2979.7	3378.0	3921.3	4342.7	4471.1	4464.5
55°	25493.3	25536.1	15382.2	3931.2	2713.0	2923.7	3394.5	3954.2	4359.2	4490.9	4490.9
57.5°	24940.2	24950.1	14401.1	3328.6	2617.5	2877.6	3414.3	4003.6	4662.1	4909.0	4872.8
60°	24551.7	24107.2	13011.7	2950.0	2508.8	2834.8	3440.6	4217.6	5373.2	5623.5	5537.9
62.5°	23912.9	23310.4	11582.8	2686.6	2387.0	2801.9	3457.1	4517.2	5468.7	5481.9	5271.2
65°	22793.5	21930.9	9350.5	2426.5	2261.9	2755.8	3447.2	4629.2	5037.4	4839.9	4780.6
67.5°	21173.6	20047.6	7329.0	2166.4	2123.6	2686.6	3513.0	4425.0	4757.6	4596.2	4517.2
69°	20162.9	18618.7	6084.4	2011.7	2034.7	2633.9	3545.9	4385.5	4658.8	4461.2	4369.1
70°	19395.7	17380.8	5152.7	1909.6	1959.0	2587.9	3480.1	4362.5	4612.7	4369.1	4260.4
72.5°	16468.7	13973.1	3299.0	1672.6	1761.5	2472.6	3302.3	4217.6	4510.6	4346.0	4211.0
75°	12731.8	10262.5	2103.9	1455.3	1560.6	2301.4	3117.9	4115.5	4556.7	4260.4	3964.1
77.5°	8570.2	5732.1	1606.7	1221.5	1323.6	2077.5	2824.9	3829.1	4398.7	4138.6	3773.1
80°	3904.8	2186.2	1241.2	991.0	1070.0	1672.6	2436.4	3387.9	4158.3	4155.0	3891.7
82.5°	1563.9	1461.8	921.9	757.3	842.9	1247.8	1929.4	2900.6	3667.8	3825.8	4085.9
85°	912.0	921.9	612.4	526.8	628.9	918.6	1376.2	2242.1	2982.9	3299.0	3519.6
87.5°	372.0	414.8	286.4	276.6	345.7	490.6	632.1	1086.5	1606.7	1972.2	2107.2
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)