

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: P383348

Luminaire Tested: **GLEON-SA6C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30308.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

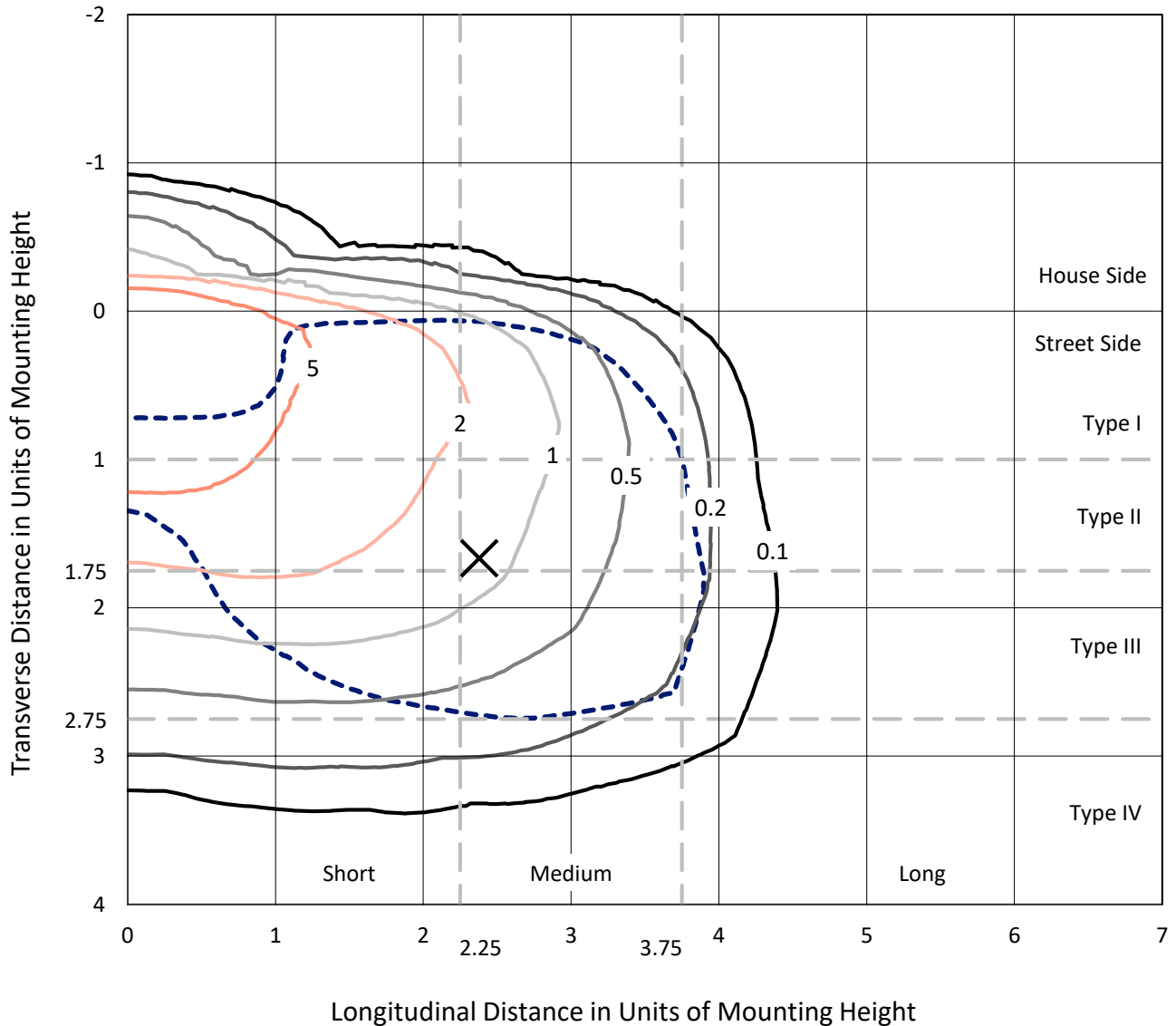
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

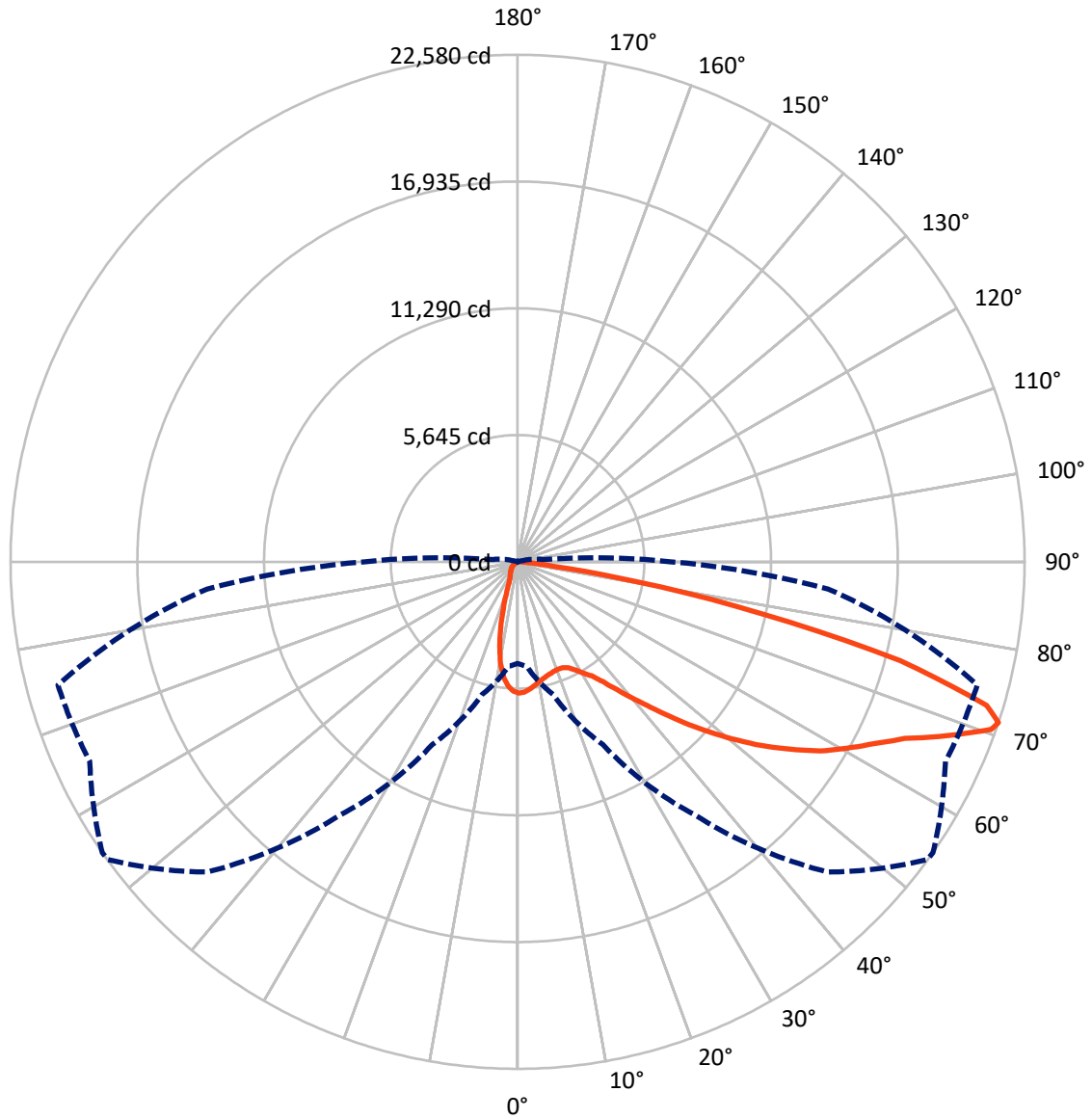
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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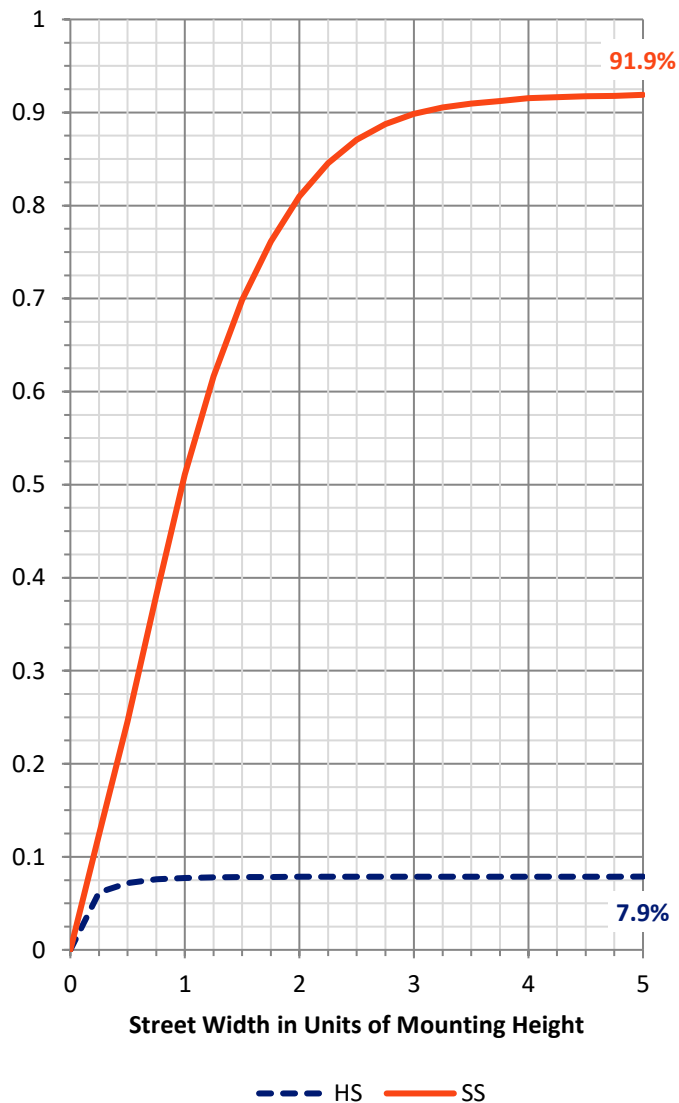
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2399.6	0.0	2399.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	27909.3	0.0	27909.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	30308.9	0.0	30308.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	1.6
10°-20°	1125.1	3.7
20°-30°	1808.1	6.0
30°-40°	3072.1	10.1
40°-50°	4768.3	15.7
50°-60°	6410.8	21.2
60°-70°	7842.5	25.9
70°-80°	4585.3	15.1
80°-90°	198.2	0.7
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°	30308.9	100.0
0°-180°	30308.9	100.0

Coefficient of Utilization

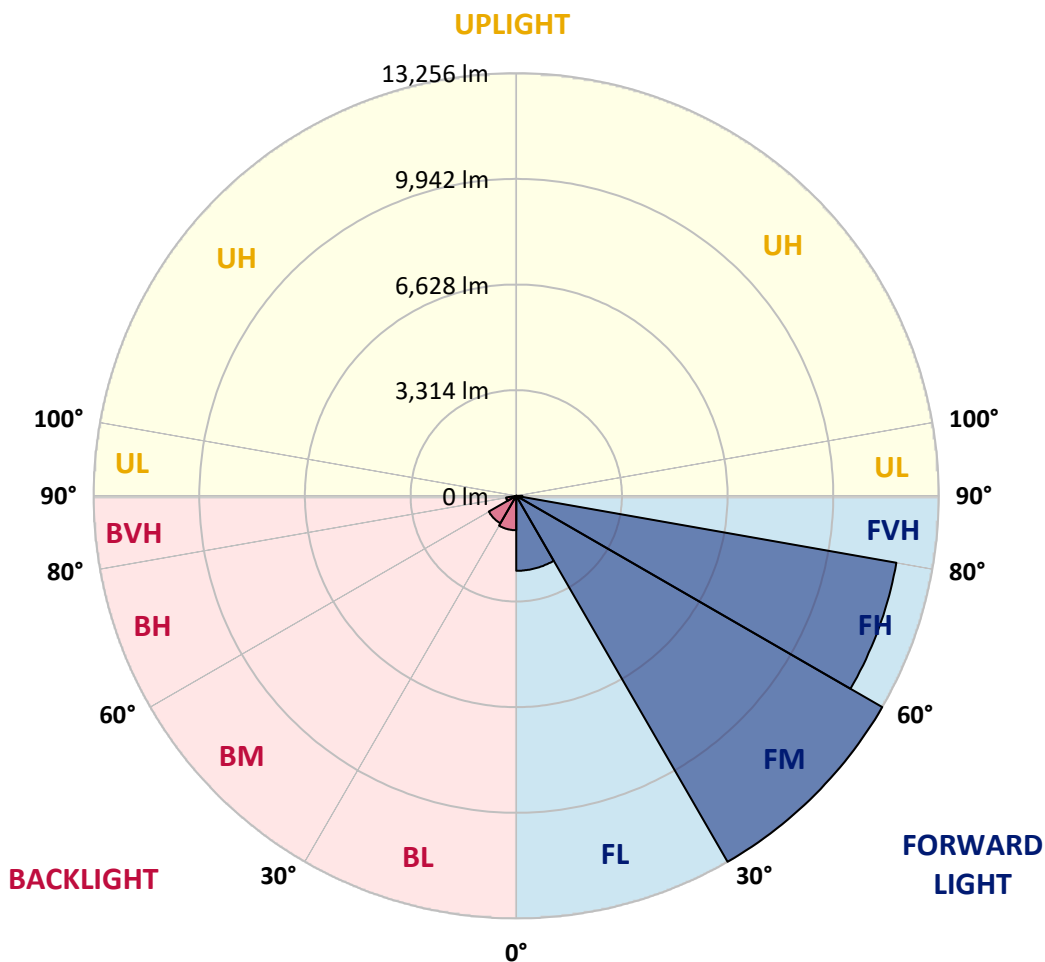


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.6	7.8			
FM (30°-60°)	13256.2	43.7			
FH (60°-80°)	12106.4	39.9			G5
FVH (80°-90°)	195.1	0.6			G2/225
BL (0°-30°)	1080.1	3.6	B3/2500		
BM (30°-60°)	994.9	3.3	B1/1000		
BH (60°-80°)	321.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2
2.5°	5673.7	5680.5	5705.0	5715.9	5741.8	5785.3	5807.1	5808.4	5843.8	5857.4	5868.3
5°	5272.2	5313.1	5353.9	5397.4	5476.4	5581.2	5684.6	5694.1	5808.4	5892.8	5937.7
7.5°	4926.6	4963.3	5012.3	5081.7	5193.3	5358.0	5530.8	5551.2	5767.6	5959.5	6060.2
10°	4571.4	4601.3	4672.1	4774.1	4927.9	5148.4	5381.1	5415.1	5730.9	6049.3	6226.2
12.5°	4191.7	4209.3	4295.1	4442.1	4668.0	4948.3	5254.5	5299.5	5707.7	6152.8	6422.2
15°	3903.1	3911.3	3993.0	4145.4	4404.0	4768.7	5156.6	5211.0	5713.2	6276.6	6635.9
17.5°	3829.7	3833.7	3877.3	3982.1	4210.7	4608.1	5079.0	5145.7	5729.5	6397.7	6850.9
20°	4127.7	4099.1	4054.2	4037.9	4135.9	4511.5	5032.7	5107.6	5751.3	6505.2	7044.2
22.5°	4945.6	4861.2	4674.8	4425.7	4274.7	4518.3	5045.0	5119.8	5820.7	6637.2	7267.4
25°	6159.6	6042.5	5725.4	5235.5	4764.6	4714.3	5147.0	5223.2	5955.4	6795.1	7481.0
27.5°	7540.9	7425.2	7037.4	6337.8	5534.9	5102.1	5381.1	5451.9	6155.5	6935.3	7644.3
30°	8863.7	8831.1	8373.8	7579.0	6503.9	5730.9	5683.2	5743.1	6303.8	7019.7	7773.6
32.5°	9985.1	9933.4	9566.0	8793.0	7613.0	6486.2	6038.4	6056.1	6415.4	7128.5	7942.4
35°	11024.9	10960.9	10638.4	9907.6	8750.8	7408.9	6585.5	6559.7	6659.0	7347.6	8187.3
37.5°	11932.6	11991.1	11633.2	10937.8	9771.5	8368.3	7323.2	7245.6	7040.1	7704.2	8542.5
40°	12692.0	12692.0	12505.6	11925.8	10873.8	9360.5	8157.4	8055.3	7613.0	8254.0	8993.0
42.5°	12965.6	13024.1	13093.5	12765.5	11860.5	10392.0	9086.9	8980.8	8420.1	9033.8	9561.9
45°	12981.9	13074.4	13429.6	13428.3	12751.9	11416.8	10134.8	10084.5	9454.4	10035.5	10266.8
47.5°	12751.9	12867.6	13452.8	13784.8	13458.2	12370.8	11280.7	11218.1	10669.7	11263.0	11004.5
50°	12396.7	12524.6	13205.1	13925.0	13938.6	13201.0	12487.9	12394.0	12007.5	12666.2	11766.6
52.5°	11761.1	12008.8	12983.2	13957.7	14254.4	13918.2	13636.5	13595.7	13504.5	14017.6	12373.6
55°	10401.6	10676.5	12426.6	13968.6	14547.0	14553.8	14713.0	14723.9	14907.6	15280.5	12825.4
57.5°	9759.2	9914.4	11454.9	14020.3	14981.1	15275.1	15809.9	15894.3	16178.7	16479.4	13341.2
60°	9355.0	9538.7	10975.9	13949.5	15662.9	16220.9	16826.5	16855.0	17159.9	17716.5	14039.3
62.5°	9032.5	9213.5	10673.8	13677.3	16429.1	17358.6	17819.9	17822.6	18051.2	19190.3	14832.8
65°	8236.3	8388.8	10062.7	13371.1	16935.3	18484.0	18974.0	18956.3	19142.7	20744.5	15754.1
67.5°	7085.0	7202.0	8814.7	12210.2	16744.8	19507.4	20715.9	20657.4	20431.5	22087.8	16116.1
70°	5477.7	5519.9	6947.5	10175.7	14959.3	19900.7	22399.4	22369.5	21222.2	21846.9	14789.2
71°	4527.8	4666.6	6122.8	8980.8	13763.1	19537.4	22562.7	22580.4	21023.5	21190.9	13876.0
72.5°	2629.3	2747.7	4438.0	6897.2	11684.9	18021.3	21716.2	21844.1	20095.4	19274.7	11852.3
75°	563.4	602.9	1645.4	3338.4	6427.7	12630.8	17140.8	17596.7	16378.7	13112.5	7143.5
77.5°	391.9	423.2	705.0	1514.7	2124.4	6241.2	10647.9	11162.3	9785.1	4927.9	2286.4
80°	310.3	345.7	549.8	748.5	574.3	2012.8	4987.8	5302.2	3263.5	1099.6	385.1
82.5°	172.8	205.5	428.7	404.2	220.5	382.4	1396.3	1578.7	653.2	221.8	91.2
85°	50.4	61.2	276.3	294.0	93.9	73.5	238.2	295.3	123.8	58.5	40.8
87.5°	0.0	0.0	133.4	113.0	27.2	10.9	21.8	24.5	24.5	24.5	27.2
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°	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2	5845.2
2.5°	5868.3	5877.8	5843.8	5798.9	5751.3	5692.8	5631.5	5583.9	5582.5	5559.4	5536.3
5°	5940.4	5935.0	5841.1	5698.2	5529.4	5353.9	5186.5	4997.3	4934.7	4857.2	4831.3
7.5°	6073.8	6035.7	5837.0	5524.0	5153.8	4786.4	4406.7	4024.3	3861.0	3714.0	3688.1
10°	6241.2	6169.1	5811.2	5262.7	4583.6	3905.9	3332.9	2813.0	2584.4	2408.8	2400.7
12.5°	6415.4	6305.2	5739.0	4868.0	3836.5	2883.8	2223.8	1712.0	1521.5	1399.0	1409.9
15°	6597.8	6433.1	5583.9	4335.9	2985.9	1957.0	1366.4	1065.6	989.4	958.1	966.3
17.5°	6784.2	6521.6	5367.5	3694.9	2146.2	1262.9	945.8	861.5	861.5	868.3	871.0
20°	6946.2	6569.2	5049.0	2976.3	1454.8	920.0	827.4	815.2	822.0	832.9	834.2
22.5°	7106.8	6571.9	4634.0	2248.3	1018.0	805.7	788.0	782.5	786.6	798.9	800.2
25°	7237.4	6539.3	4114.1	1599.1	812.5	759.4	751.2	748.5	751.2	766.2	766.2
27.5°	7290.5	6420.9	3479.9	1124.1	728.1	707.7	705.0	707.7	711.8	722.7	724.0
30°	7295.9	6214.0	2788.5	813.8	660.0	638.3	643.7	653.2	649.2	646.4	649.2
32.5°	7309.5	5974.5	2114.9	669.6	602.9	568.9	562.1	562.1	545.7	536.2	530.8
35°	7354.5	5692.8	1533.8	601.5	544.4	504.9	479.0	449.1	417.8	401.5	397.4
37.5°	7425.2	5397.4	1098.3	556.6	492.7	447.7	398.8	345.7	300.8	288.5	288.5
40°	7554.5	5092.6	812.5	521.2	451.8	396.0	322.5	253.1	212.3	205.5	205.5
42.5°	7758.6	4771.4	647.8	489.9	416.4	343.0	246.3	183.7	153.8	149.7	148.3
45°	7971.0	4417.6	566.1	460.0	378.3	281.7	182.4	136.1	118.4	114.3	114.3
47.5°	8183.3	4040.6	526.7	431.4	341.6	219.1	136.1	107.5	99.3	99.3	100.7
50°	8362.9	3647.3	498.1	400.1	294.0	166.0	107.5	91.2	88.5	93.9	95.3
52.5°	8407.8	3260.8	462.7	360.6	235.4	126.6	88.5	80.3	80.3	80.3	80.3
55°	8380.6	2961.4	416.4	311.7	174.2	100.7	76.2	70.8	69.4	69.4	69.4
57.5°	8473.1	2784.5	333.4	242.2	125.2	81.7	66.7	62.6	59.9	58.5	58.5
60°	8659.6	2668.8	238.2	174.2	93.9	68.0	57.2	53.1	49.0	46.3	46.3
62.5°	8907.3	2568.1	176.9	129.3	72.1	54.4	47.6	43.5	38.1	35.4	35.4
65°	9097.8	2388.4	134.7	96.6	54.4	43.5	36.7	35.4	27.2	24.5	23.1
67.5°	8806.6	1993.8	108.9	70.8	40.8	34.0	28.6	27.2	16.3	13.6	13.6
70°	7553.1	1388.1	87.1	51.7	29.9	27.2	23.1	17.7	12.2	10.9	10.9
71°	6849.5	1159.5	78.9	43.5	25.9	25.9	21.8	15.0	10.9	9.5	9.5
72.5°	5690.0	823.4	66.7	34.0	23.1	27.2	23.1	13.6	10.9	9.5	8.2
75°	3303.0	344.3	46.3	23.1	17.7	32.7	29.9	12.2	8.2	6.8	6.8
77.5°	993.5	126.6	25.9	15.0	13.6	28.6	34.0	10.9	4.1	1.4	1.4
80°	181.0	54.4	16.3	9.5	9.5	17.7	25.9	5.4	0.0	0.0	0.0
82.5°	64.0	27.2	9.5	5.4	4.1	8.2	12.2	0.0	0.0	0.0	0.0
85°	36.7	19.1	5.4	2.7	0.0	1.4	2.7	0.0	0.0	0.0	0.0
87.5°	24.5	5.4	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

(END OF REPORT)