

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: P383684

Luminaire Tested: **GLEON-SA9C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383684
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-SA9C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45304 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

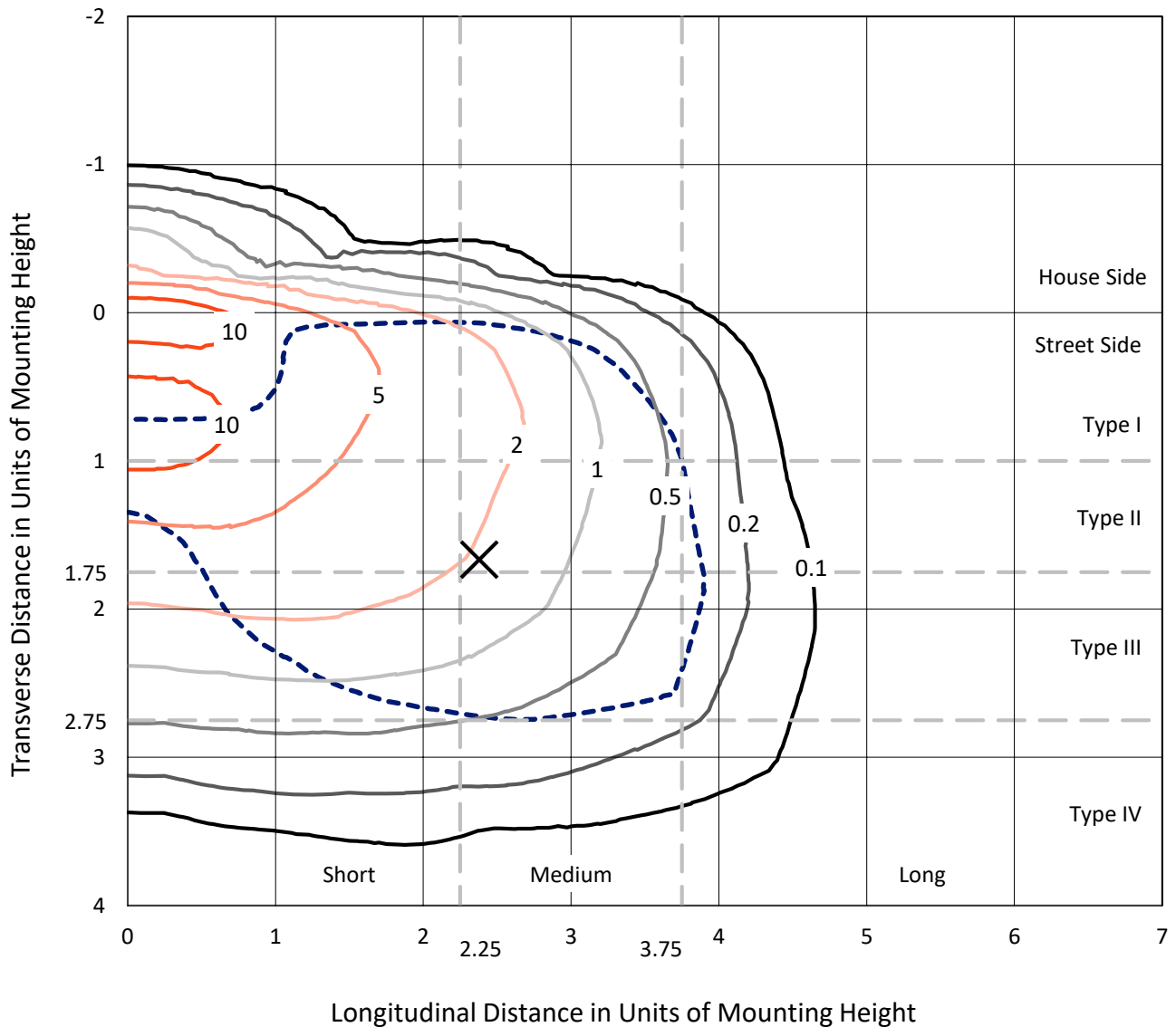
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

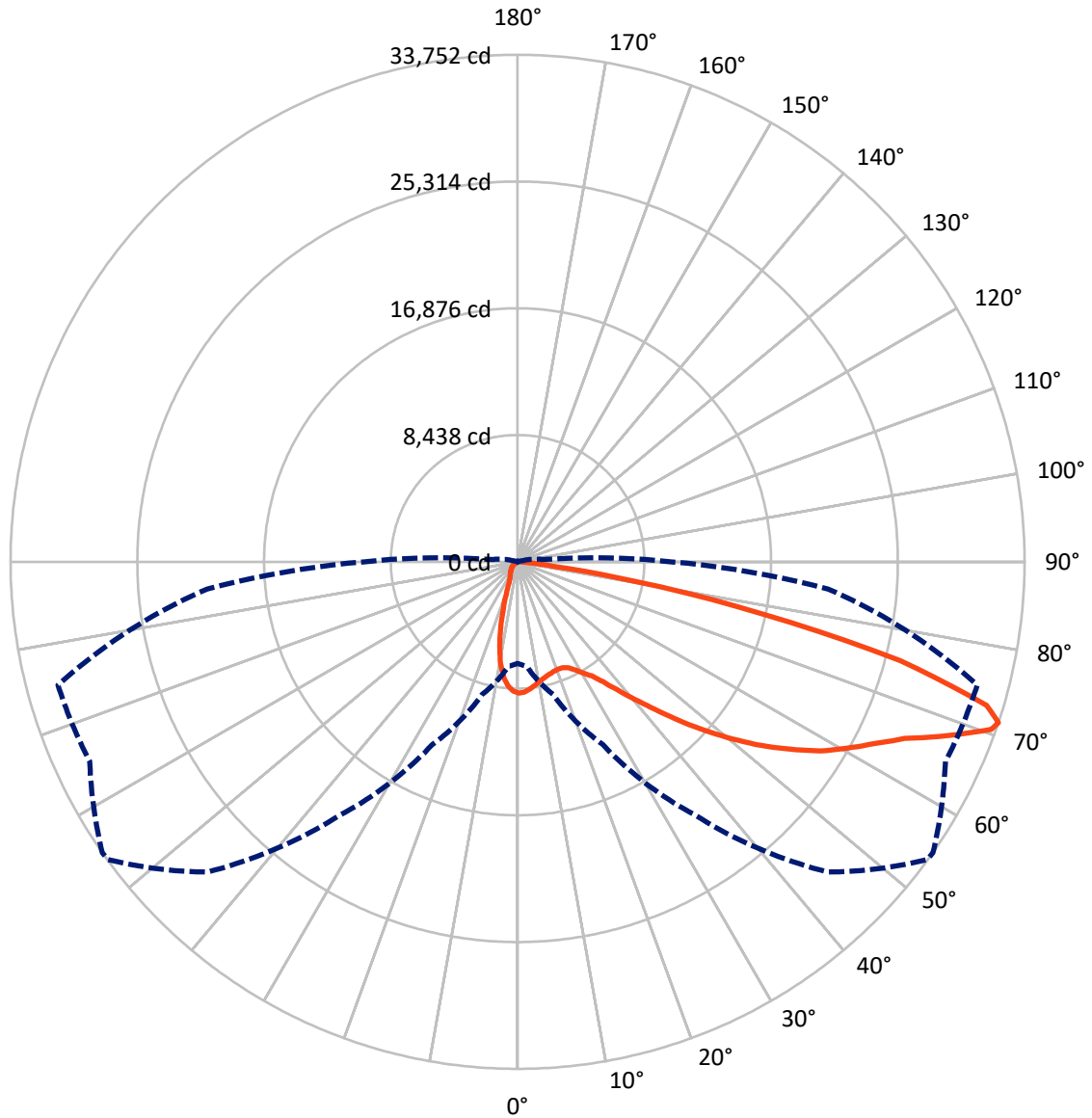
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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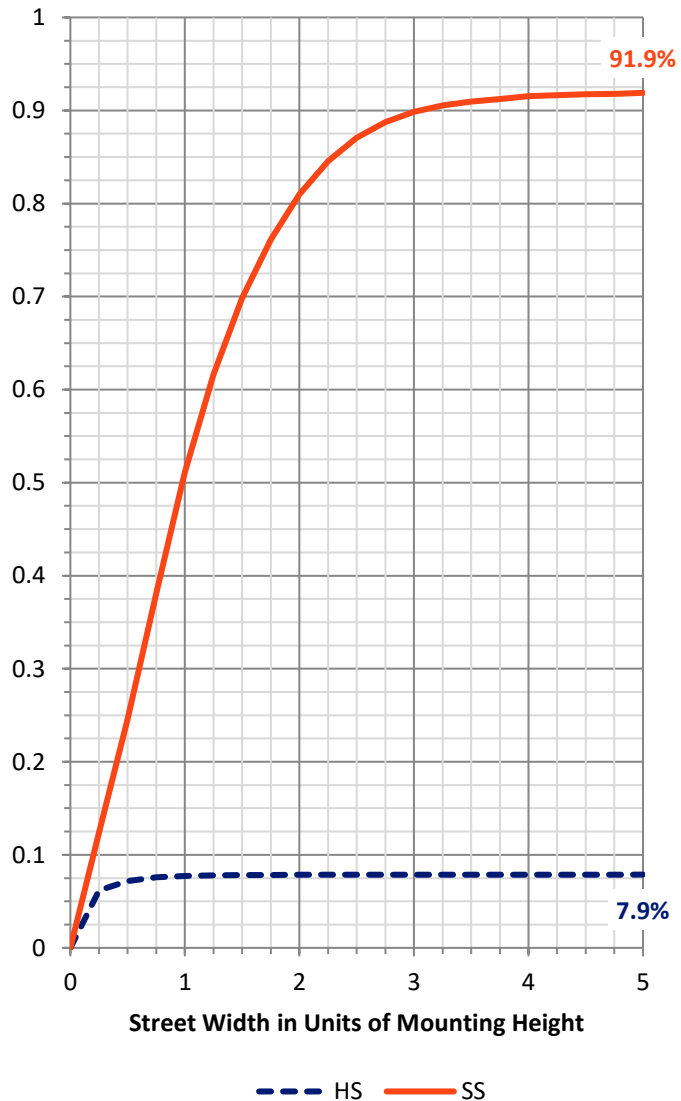
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3586.8	0.0	3586.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	41717.1	0.0	41717.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	45304.0	0.0	45304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.0	1.6
10°-20°	1681.8	3.7
20°-30°	2702.7	6.0
30°-40°	4592.0	10.1
40°-50°	7127.3	15.7
50°-60°	9582.5	21.2
60°-70°	11722.6	25.9
70°-80°	6853.9	15.1
80°-90°	296.3	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°	45304.0	100.0
0°-180°	45304.0	100.0

Coefficient of Utilization

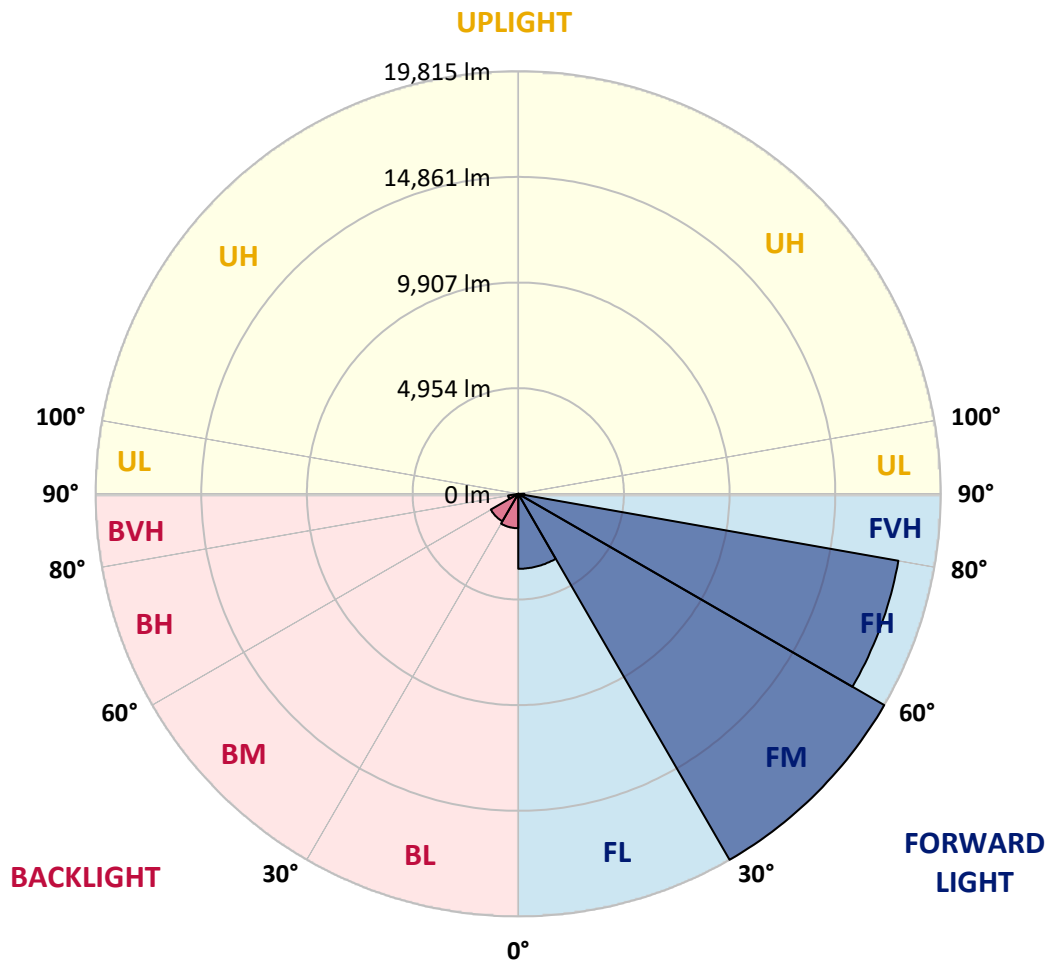


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3515.0	7.8			
FM (30°-60°)	19814.6	43.7			
FH (60°-80°)	18095.9	39.9			G5
FVH (80°-90°)	291.6	0.6			G3/500
BL (0°-30°)	1614.4	3.6	B3/2500		
BM (30°-60°)	1487.2	3.3	B2/2500		
BH (60°-80°)	480.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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°	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0
2.5°	8480.7	8490.9	8527.5	8543.8	8582.4	8647.6	8680.1	8682.1	8735.0	8755.3	8771.6
5°	7880.6	7941.6	8002.6	8067.8	8185.8	8342.4	8497.0	8511.3	8682.1	8808.2	8875.3
7.5°	7363.9	7418.8	7492.1	7595.8	7762.6	8008.8	8267.1	8297.7	8621.1	8907.9	9058.5
10°	6833.0	6877.7	6983.5	7136.1	7365.9	7695.5	8043.4	8094.2	8566.1	9042.2	9306.6
12.5°	6265.4	6291.9	6420.0	6639.7	6977.4	7396.5	7854.2	7921.3	8531.6	9196.8	9599.5
15°	5834.2	5846.4	5968.4	6196.3	6582.8	7127.9	7707.7	7789.0	8539.7	9381.9	9918.9
17.5°	5724.4	5730.4	5795.5	5952.1	6293.9	6888.0	7591.7	7691.4	8564.1	9562.9	10240.3
20°	6169.8	6127.1	6060.0	6035.6	6182.0	6743.5	7522.6	7634.5	8596.7	9723.6	10529.2
22.5°	7392.4	7266.3	6987.6	6615.3	6389.5	6753.6	7540.9	7652.8	8700.4	9921.0	10862.8
25°	9207.0	9032.0	8558.0	7825.7	7121.9	7046.6	7693.5	7807.4	8901.8	10156.9	11182.2
27.5°	11271.7	11098.7	10519.0	9473.5	8273.3	7626.3	8043.4	8149.2	9200.8	10366.4	11426.3
30°	13248.9	13200.1	12516.6	11328.6	9721.6	8566.1	8495.0	8584.5	9422.6	10492.6	11619.6
32.5°	14925.2	14847.8	14298.6	13143.2	11379.5	9695.2	9025.9	9052.3	9589.4	10655.3	11871.8
35°	16479.4	16383.7	15901.6	14809.2	13080.1	11074.3	9843.7	9805.0	9953.5	10982.9	12237.9
37.5°	17836.2	17923.6	17388.6	16349.1	14605.8	12508.5	10946.2	10830.3	10523.0	11515.8	12768.9
40°	18971.2	18971.2	18692.5	17826.0	16253.5	13991.5	12193.2	12040.6	11379.5	12337.6	13442.2
42.5°	19380.1	19467.6	19571.3	19081.1	17728.4	15533.4	13582.6	13423.9	12585.8	13503.2	14292.5
45°	19404.5	19542.8	20073.8	20071.8	19060.8	17065.2	15148.9	15073.7	14131.9	15000.4	15346.2
47.5°	19060.8	19233.7	20108.4	20604.7	20116.5	18491.2	16861.8	16768.1	15948.4	16835.3	16448.8
50°	18529.8	18721.0	19738.2	20814.3	20834.6	19732.0	18666.2	18525.8	17948.0	18932.6	17588.0
52.5°	17579.9	17950.1	19406.6	20863.1	21306.5	20804.1	20383.0	20322.0	20185.7	20952.6	18495.2
55°	15547.6	15958.5	18574.6	20879.3	21743.9	21754.1	21992.1	22008.4	22283.0	22840.3	19170.6
57.5°	14587.5	14819.4	17122.1	20956.7	22392.8	22832.2	23631.7	23757.8	24183.0	24632.5	19941.5
60°	13983.3	14257.9	16406.0	20850.9	23412.0	24246.0	25151.2	25194.0	25649.6	26481.7	20985.2
62.5°	13501.2	13771.7	15954.5	20444.0	24557.3	25946.7	26636.2	26640.3	26982.1	28684.7	22171.1
65°	12311.1	12539.0	15041.1	19986.4	25314.0	27629.0	28361.2	28334.8	28613.5	31007.8	23548.3
67.5°	10590.2	10765.2	13175.7	18251.2	25029.2	29158.7	30965.1	30877.6	30539.9	33015.6	24089.4
70°	8187.7	8250.8	10384.8	15209.9	22360.3	29746.6	33481.4	33436.7	31721.8	32655.5	22106.0
71°	6767.9	6975.4	9152.0	13423.9	20572.2	29203.5	33725.6	33752.0	31424.8	31675.0	20741.0
72.5°	3930.1	4107.1	6633.6	10309.5	17466.0	26937.3	32460.2	32651.5	30037.5	28810.8	17716.2
75°	842.2	901.2	2459.4	4989.9	9607.7	18879.7	25621.2	26302.6	24482.0	19599.9	10677.7
77.5°	585.9	632.6	1053.8	2264.1	3175.5	9329.0	15915.9	16684.8	14626.1	7365.9	3417.5
80°	463.8	516.7	821.8	1118.8	858.4	3008.6	7455.5	7925.3	4878.0	1643.6	575.7
82.5°	258.3	307.1	640.8	604.2	329.6	571.6	2087.1	2359.7	976.4	331.5	136.3
85°	75.3	91.6	413.0	439.4	140.4	109.8	355.9	441.5	185.1	87.5	61.0
87.5°	0.0	0.0	199.4	168.8	40.7	16.3	32.5	36.6	36.6	36.6	40.7
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°	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0	8737.0
2.5°	8771.6	8785.9	8735.0	8667.9	8596.7	8509.2	8417.7	8346.5	8344.4	8309.9	8275.2
5°	8879.4	8871.3	8730.9	8517.3	8265.1	8002.6	7752.4	7469.7	7376.1	7260.2	7221.5
7.5°	9078.8	9021.9	8724.8	8257.0	7703.6	7154.4	6586.9	6015.2	5771.1	5551.5	5512.8
10°	9329.0	9221.2	8686.2	7866.4	6851.3	5838.3	4981.8	4204.7	3863.0	3600.6	3588.4
12.5°	9589.4	9424.6	8578.3	7276.4	5734.5	4310.6	3323.9	2559.1	2274.3	2091.2	2107.4
15°	9861.9	9615.8	8346.5	6481.1	4463.1	2925.2	2042.3	1592.8	1478.9	1432.1	1444.3
17.5°	10140.6	9748.1	8023.0	5523.0	3208.0	1887.8	1413.8	1287.7	1287.7	1297.8	1301.9
20°	10382.8	9819.3	7547.0	4448.9	2174.6	1375.2	1236.8	1218.5	1228.7	1244.9	1247.0
22.5°	10622.8	9823.4	6926.5	3360.6	1521.6	1204.3	1177.8	1169.7	1175.8	1194.1	1196.1
25°	10818.1	9774.4	6149.5	2390.3	1214.5	1135.1	1122.9	1118.8	1122.9	1145.2	1145.2
27.5°	10897.4	9597.5	5201.6	1680.2	1088.3	1057.8	1053.8	1057.8	1063.9	1080.2	1082.2
30°	10905.5	9288.3	4168.1	1216.5	986.6	954.1	962.2	976.4	970.3	966.3	970.3
32.5°	10925.8	8930.3	3161.2	1000.9	901.2	850.3	840.2	840.2	815.8	801.5	793.3
35°	10993.0	8509.2	2292.5	899.1	813.7	754.7	716.1	671.3	624.5	600.1	594.0
37.5°	11098.7	8067.8	1641.7	832.0	736.4	669.2	596.0	516.7	449.6	431.2	431.2
40°	11292.0	7612.1	1214.5	779.1	675.4	592.0	482.1	378.4	317.4	307.1	307.1
42.5°	11597.1	7132.0	968.3	732.3	622.5	512.6	368.2	274.6	229.9	223.8	221.7
45°	11914.5	6603.1	846.2	687.6	565.5	421.1	272.6	203.4	177.0	170.8	170.8
47.5°	12231.9	6039.6	787.3	644.8	510.6	327.5	203.4	160.7	148.5	148.5	150.5
50°	12500.3	5451.8	744.5	598.1	439.4	248.2	160.7	136.3	132.2	140.4	142.4
52.5°	12567.5	4874.0	691.7	539.1	351.9	189.2	132.2	120.0	120.0	120.0	120.0
55°	12526.8	4426.5	622.5	465.9	260.4	150.5	113.9	105.8	103.8	103.8	103.8
57.5°	12665.1	4162.1	498.4	362.1	187.1	122.0	99.7	93.6	89.5	87.5	87.5
60°	12943.9	3989.2	355.9	260.4	140.4	101.7	85.4	79.4	73.2	69.1	69.1
62.5°	13314.1	3838.6	264.5	193.3	107.8	81.3	71.2	65.1	56.9	52.9	52.9
65°	13598.8	3570.1	201.4	144.4	81.3	65.1	55.0	52.9	40.7	36.6	34.6
67.5°	13163.5	2980.1	162.7	105.8	61.0	50.9	42.8	40.7	24.4	20.3	20.3
70°	11290.0	2074.9	130.2	77.3	44.7	40.7	34.6	26.5	18.4	16.3	16.3
71°	10238.3	1733.1	118.0	65.1	38.7	38.7	32.5	22.4	16.3	14.3	14.3
72.5°	8505.1	1230.7	99.7	50.9	34.6	40.7	34.6	20.3	16.3	14.3	12.2
75°	4937.1	514.7	69.1	34.6	26.5	48.8	44.7	18.4	12.2	10.2	10.2
77.5°	1485.0	189.2	38.7	22.4	20.3	42.8	50.9	16.3	6.1	2.0	2.0
80°	270.5	81.3	24.4	14.3	14.3	26.5	38.7	8.1	0.0	0.0	0.0
82.5°	95.6	40.7	14.3	8.1	6.1	12.2	18.4	0.0	0.0	0.0	0.0
85°	55.0	28.5	8.1	4.1	0.0	2.0	4.1	0.0	0.0	0.0	0.0
87.5°	36.6	8.1	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)