

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: P323662

Luminaire Tested: **GLEON-SA8D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39053 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

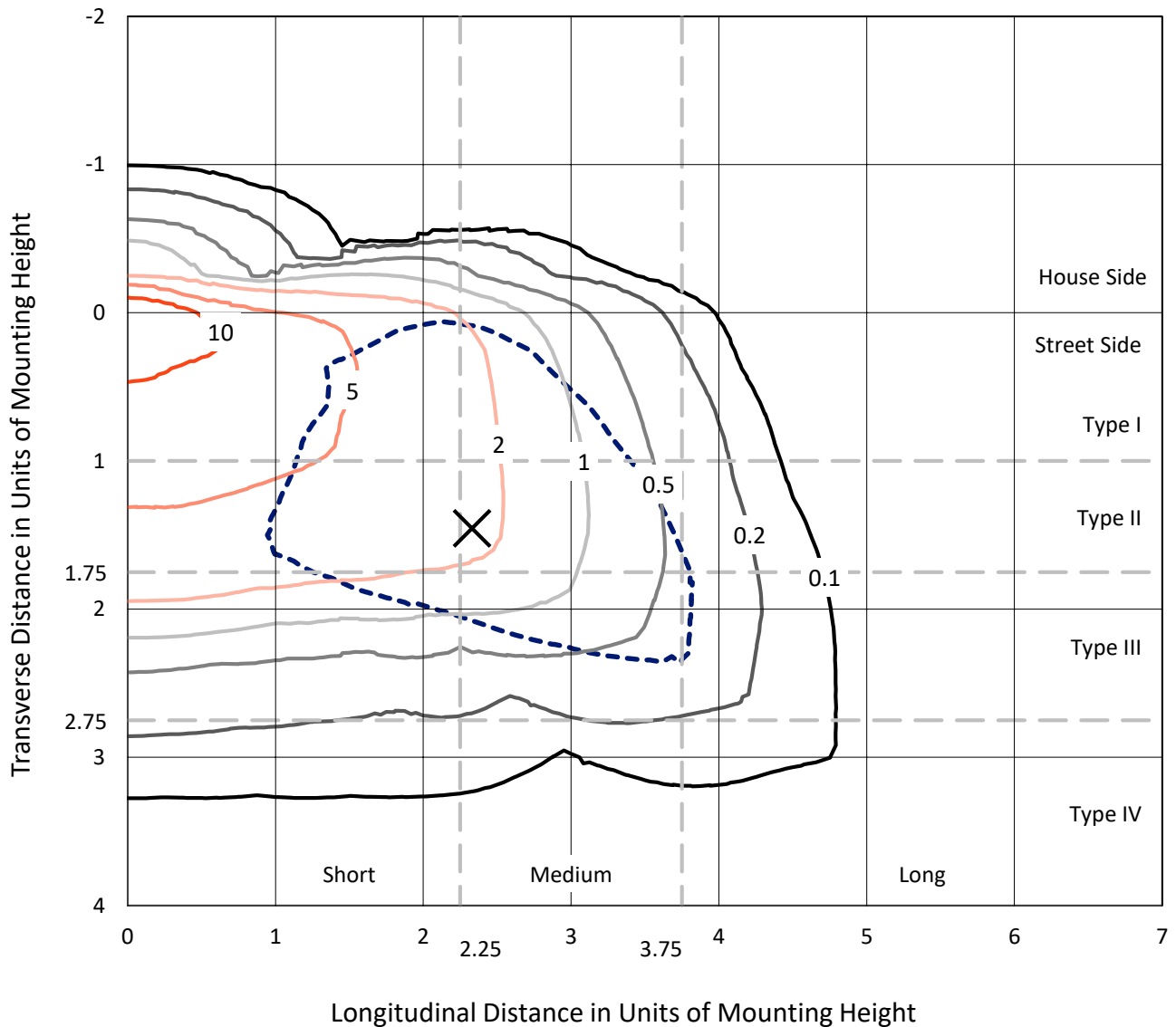
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

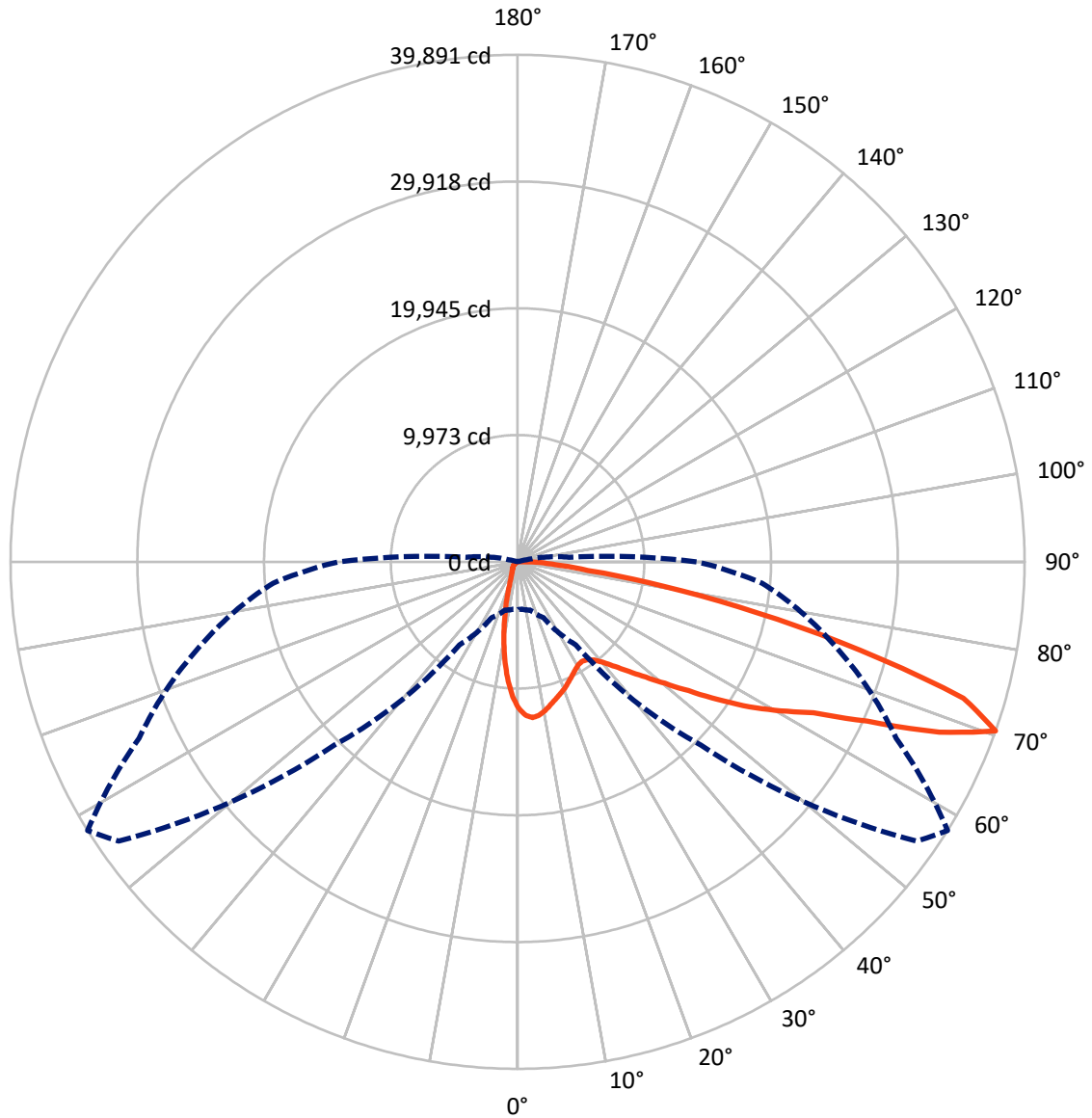
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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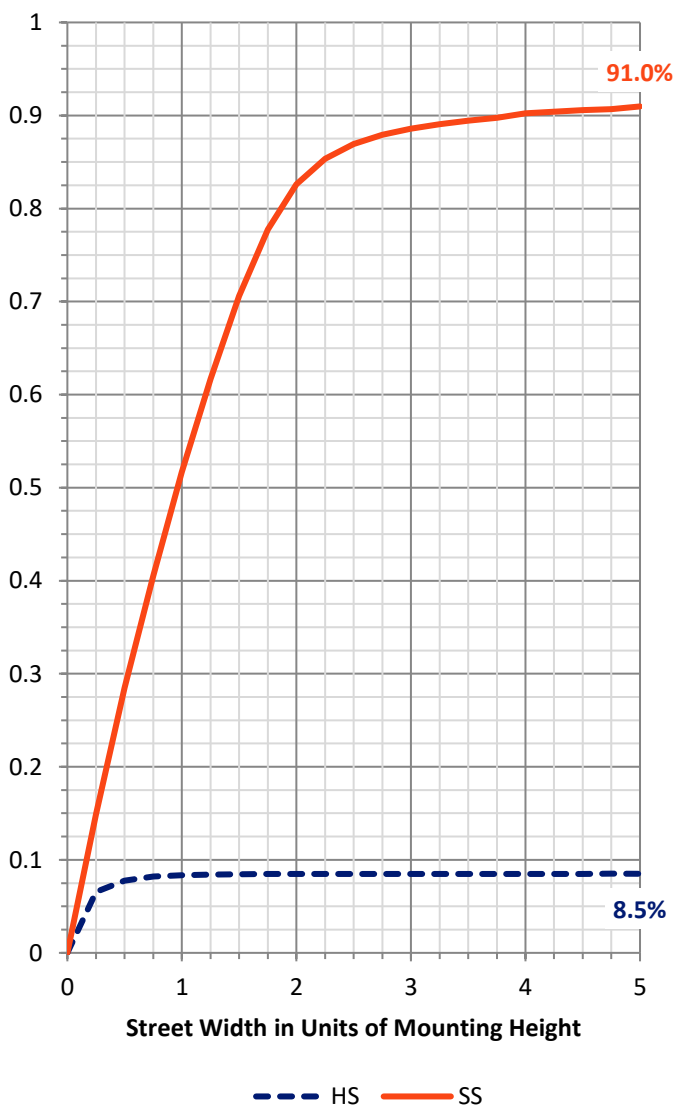
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.1	0.0	3342.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	35710.9	0.0	35710.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	39053.0	0.0	39053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.4	2.4
10°-20°	1979.9	5.1
20°-30°	2602.9	6.7
30°-40°	3447.2	8.8
40°-50°	5152.5	13.2
50°-60°	8254.1	21.1
60°-70°	10404.2	26.6
70°-80°	5612.0	14.4
80°-90°	656.9	1.7
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°	39053.0	100.0
0°-180°	39053.0	100.0

Coefficient of Utilization

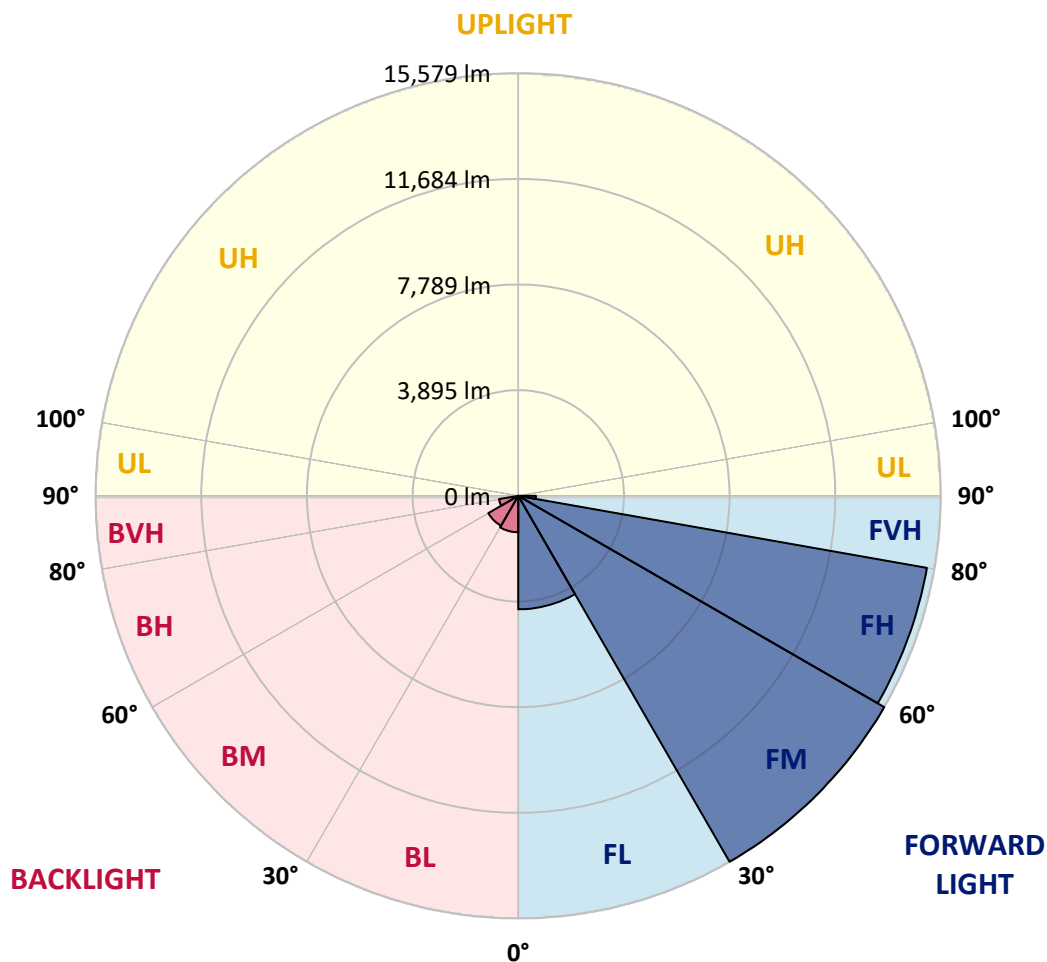


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4183.4	10.7			
FM (30°-60°)	15578.8	39.9			
FH (60°-80°)	15297.5	39.2			G5
FVH (80°-90°)	651.2	1.7			G4/750
BL (0°-30°)	1342.7	3.4	B3/2500		
BM (30°-60°)	1275.0	3.3	B2/2500		
BH (60°-80°)	718.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.7	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°	55°	58°	65°	75°	85°
0°	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1
2.5°	12492.5	12461.7	12450.3	12430.8	12356.1	12283.1	12138.5	12097.9	12007.0	11791.0	11562.1
5°	12502.3	12500.7	12534.8	12526.6	12500.7	12466.6	12362.6	12309.0	12154.8	11846.2	11427.3
7.5°	11899.8	11930.7	12007.0	12068.7	12140.2	12232.7	12245.7	12193.7	12067.1	11734.2	11178.8
10°	11091.1	11139.8	11247.0	11368.8	11555.6	11740.7	11906.3	11899.8	11856.0	11528.0	10880.0
12.5°	10280.8	10337.6	10461.1	10641.3	10906.0	11208.0	11503.6	11544.2	11617.3	11342.8	10604.0
15°	9571.2	9619.9	9741.7	9962.5	10290.6	10696.5	11130.1	11204.8	11393.2	11198.3	10373.4
17.5°	8968.7	8999.6	9088.9	9334.1	9714.1	10206.1	10769.6	10915.7	11196.7	11084.6	10173.6
20°	8548.1	8553.0	8611.5	8783.6	9163.6	9714.1	10396.1	10605.6	10988.8	10987.2	9967.4
22.5°	8340.3	8324.0	8335.4	8434.5	8713.8	9244.8	10022.6	10271.1	10802.1	10904.4	9757.9
25°	8301.3	8288.3	8255.8	8268.8	8437.7	8833.9	9645.9	9933.3	10638.1	10854.0	9576.0
27.5°	8423.1	8436.1	8380.9	8322.4	8335.4	8567.6	9311.4	9644.2	10504.9	10854.0	9447.8
30°	8668.3	8674.8	8634.2	8557.9	8455.6	8492.9	9079.1	9412.0	10438.3	10928.7	9366.6
32.5°	8939.5	8975.2	8970.3	8908.6	8762.5	8611.5	9023.9	9327.6	10433.5	11094.4	9358.4
35°	9275.6	9316.2	9384.4	9371.4	9218.8	8970.3	9212.3	9451.0	10529.3	11367.2	9446.1
37.5°	9632.9	9694.6	9840.7	9910.6	9811.5	9530.6	9634.5	9805.0	10785.8	11808.9	9668.6
40°	9978.8	10048.6	10314.9	10589.3	10514.6	10225.6	10274.3	10410.7	11242.1	12443.8	10090.8
42.5°	10318.2	10422.1	10813.4	11264.9	11354.2	11123.6	11149.6	11258.4	11919.3	13317.5	10781.0
45°	10724.1	10841.0	11420.8	11977.8	12216.5	12115.8	12226.2	12297.7	12804.3	14472.1	11711.5
47.5°	11320.1	11454.9	12166.1	12801.1	13220.0	13285.0	13507.5	13554.6	13923.2	15816.6	12924.5
50°	12482.8	12520.1	13163.2	13739.7	14343.8	14733.5	14986.8	15022.6	15277.5	17286.2	14439.6
52.5°	13945.9	13970.3	14334.0	14720.5	15407.4	16203.1	16795.8	16846.2	16899.8	18718.5	15935.2
55°	15399.3	15396.0	15636.4	15863.7	16649.7	17805.9	19092.0	19122.9	18738.0	20077.7	17078.4
57.5°	16307.0	16394.7	16760.1	17052.4	18150.2	19632.8	21417.4	21531.1	20668.8	21084.5	18208.6
60°	16018.0	16060.2	16870.5	17952.0	20019.2	22229.3	23770.4	23799.6	22120.5	22089.7	19637.6
62.5°	13647.1	13669.9	14943.0	17172.6	20966.0	25597.3	26609.0	26133.2	23789.9	23484.6	21347.6
65°	9353.6	9501.3	10565.0	13320.7	19226.8	27710.0	31003.2	30215.6	26334.5	25495.0	22893.5
67.5°	5508.2	5477.4	6003.5	8033.4	14121.3	26306.9	36561.7	35779.0	29804.8	26841.2	22440.5
70°	3762.5	3741.4	3942.8	4863.5	7971.6	20407.3	38310.7	39890.7	32869.0	25935.1	19312.9
72.5°	2685.9	2697.3	2994.4	3778.8	5004.8	11890.1	32945.4	36685.2	31909.3	22609.3	14679.9
75°	1823.6	1854.5	2279.9	3100.0	4387.7	6049.0	23379.1	27887.0	25983.8	16432.1	8437.7
77.5°	980.8	1014.9	1516.7	2497.5	3967.1	4202.6	15038.8	19192.7	16321.7	7387.0	2445.6
80°	409.2	428.7	709.6	1815.5	3428.0	3691.1	8848.5	11638.4	6955.1	1456.6	545.6
82.5°	177.0	186.7	295.5	1083.1	2562.5	3116.2	4684.9	5599.2	2107.8	319.9	274.4
85°	34.1	35.7	121.8	573.2	1635.3	1758.7	3036.7	2976.6	946.7	138.0	199.7
87.5°	0.0	0.0	29.2	180.3	480.7	958.1	1852.9	1830.1	321.5	66.6	74.7
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°	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1	11536.1
2.5°	11445.1	11333.1	11097.6	10806.9	10584.5	10339.3	10144.4	9897.6	9790.4	9795.3	9736.8
5°	11188.6	10958.0	10436.7	9779.0	9272.4	8749.5	8299.7	7851.5	7586.8	7500.7	7419.5
7.5°	10821.6	10456.2	9624.8	8611.5	7754.0	6916.1	6187.0	5545.6	5139.6	4941.5	4868.4
10°	10407.5	9894.3	8691.0	7356.2	6131.8	4998.3	4053.2	3231.5	2903.5	2681.0	2624.2
12.5°	10043.7	9348.7	7778.4	6068.5	4615.1	3247.8	2346.5	1835.0	1612.5	1524.8	1510.2
15°	9701.1	8838.8	6899.9	4902.5	3195.8	1999.0	1492.3	1318.6	1266.6	1252.0	1252.0
17.5°	9377.9	8353.3	6040.8	3754.4	2114.3	1401.4	1235.8	1196.8	1180.6	1178.9	1180.6
20°	9040.2	7867.7	5196.4	2750.9	1476.1	1187.1	1141.6	1120.5	1115.6	1115.6	1115.6
22.5°	8717.0	7382.2	4374.7	1964.9	1183.8	1083.1	1060.4	1045.8	1040.9	1039.3	1036.0
25°	8406.8	6921.0	3572.5	1388.4	1039.3	992.2	972.7	953.2	938.6	930.5	925.6
27.5°	8151.9	6510.2	2825.6	1114.0	938.6	898.0	873.6	844.4	808.7	792.5	786.0
30°	7948.9	6135.0	2177.6	940.2	844.4	803.8	766.5	716.1	664.2	636.6	634.9
32.5°	7789.8	5766.4	1653.1	831.4	760.0	709.6	656.0	592.7	532.6	501.8	500.2
35°	7711.8	5441.6	1263.4	751.9	685.3	621.9	555.4	485.5	427.1	397.9	394.6
37.5°	7763.8	5167.2	985.7	685.3	621.9	548.9	470.9	397.9	345.9	319.9	318.3
40°	7953.8	4991.8	800.6	628.4	568.4	479.0	394.6	326.4	282.6	261.4	259.8
42.5°	8358.1	4926.9	683.7	581.4	516.4	414.1	328.0	269.6	229.0	214.4	211.1
45°	9033.7	5022.7	604.1	535.9	462.8	352.4	271.2	220.8	185.1	173.8	172.1
47.5°	9933.3	5274.4	547.2	492.0	414.1	297.2	225.7	178.6	151.0	139.7	138.0
50°	11092.8	5673.9	500.2	448.2	368.6	251.7	186.7	141.3	116.9	108.8	108.8
52.5°	12354.5	6149.6	457.9	407.6	323.2	209.5	151.0	108.8	92.6	82.8	82.8
55°	13397.0	6565.4	412.5	376.7	267.9	173.8	115.3	82.8	68.2	63.3	63.3
57.5°	14438.0	7008.7	360.5	323.2	214.4	141.3	87.7	61.7	50.3	47.1	47.1
60°	15787.4	7551.1	310.2	263.1	168.9	107.2	65.0	43.8	37.3	35.7	35.7
62.5°	17271.6	7869.3	264.7	211.1	131.5	79.6	47.1	29.2	27.6	27.6	26.0
65°	18179.4	7419.5	222.5	168.9	102.3	60.1	30.9	21.1	24.4	22.7	19.5
67.5°	17021.6	5808.6	181.9	131.5	79.6	45.5	19.5	14.6	26.0	21.1	16.2
70°	14093.7	4066.2	141.3	92.6	63.3	39.0	13.0	9.7	27.6	21.1	13.0
72.5°	10547.1	2721.6	112.0	61.7	47.1	34.1	11.4	4.9	24.4	17.9	11.4
75°	5763.2	1096.1	89.3	39.0	29.2	24.4	8.1	3.2	16.2	13.0	8.1
77.5°	1516.7	289.1	65.0	26.0	16.2	9.7	4.9	1.6	8.1	6.5	3.2
80°	386.5	112.0	42.2	17.9	11.4	4.9	0.0	0.0	1.6	0.0	0.0
82.5°	206.2	47.1	26.0	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	155.9	30.9	14.6	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.1	9.7	4.9	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)