

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: P321387

Luminaire Tested: **GLEON-SA3A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8443 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

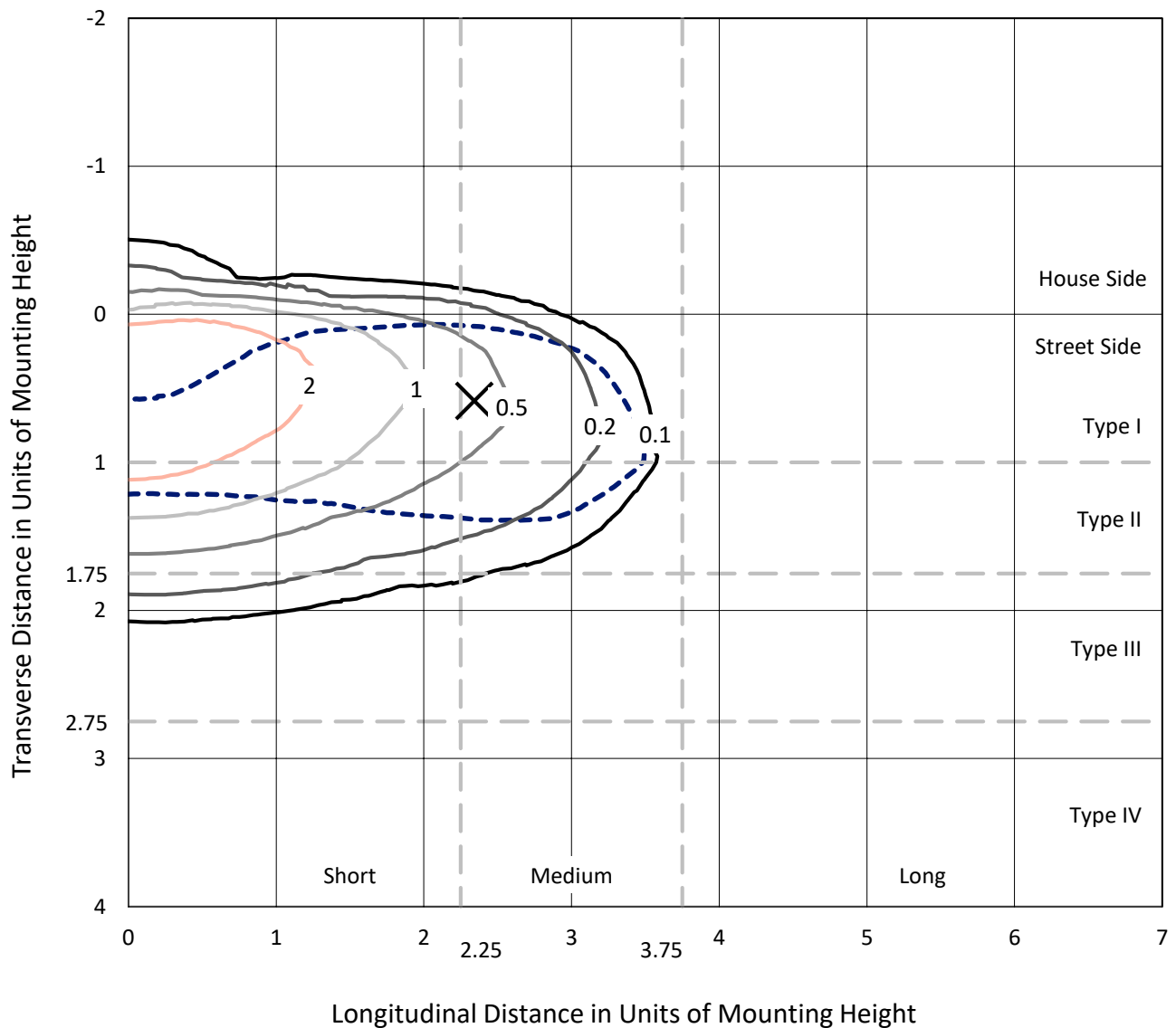




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Iso-Footcandle Lines of Horizontal Illumination

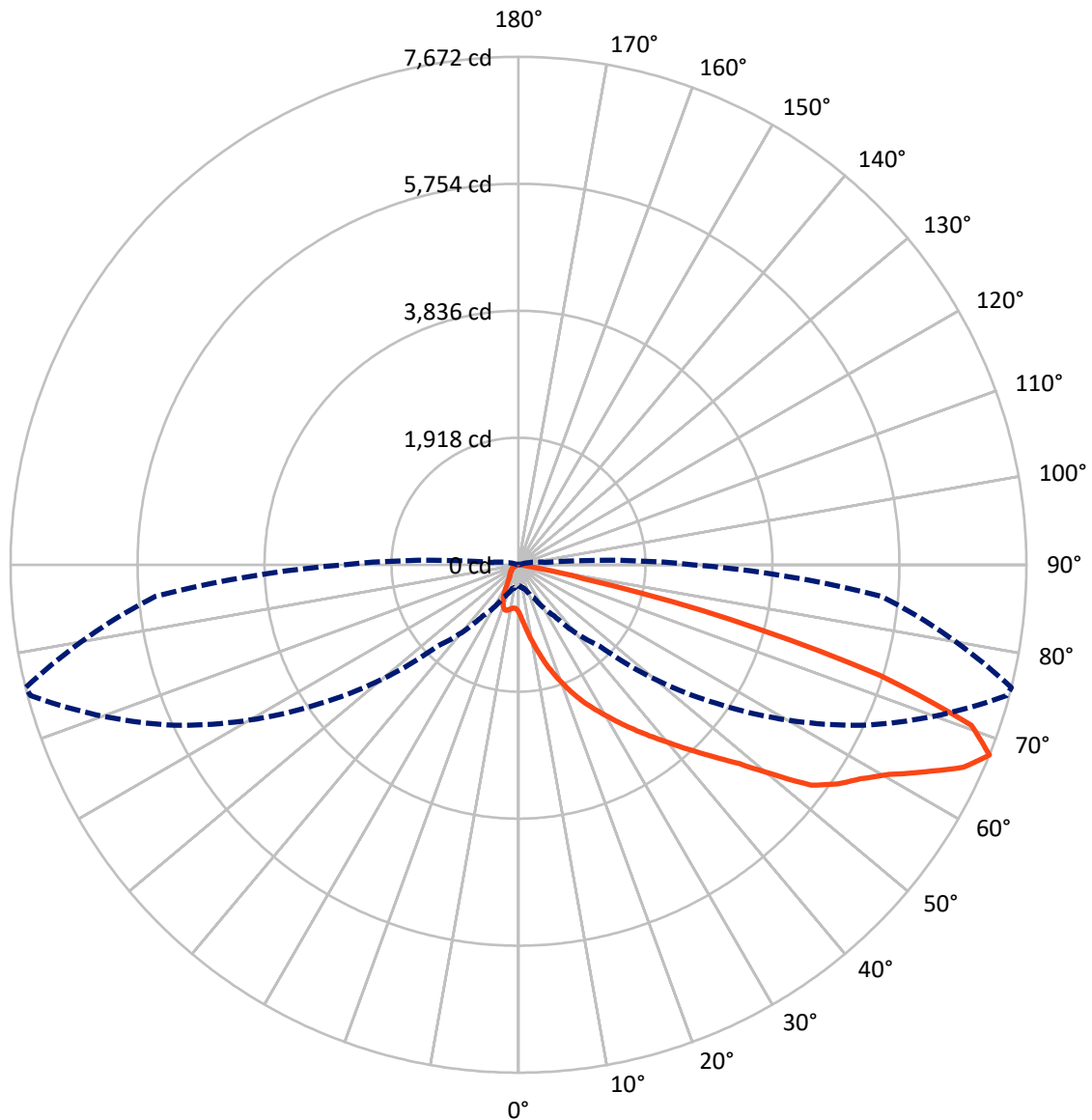
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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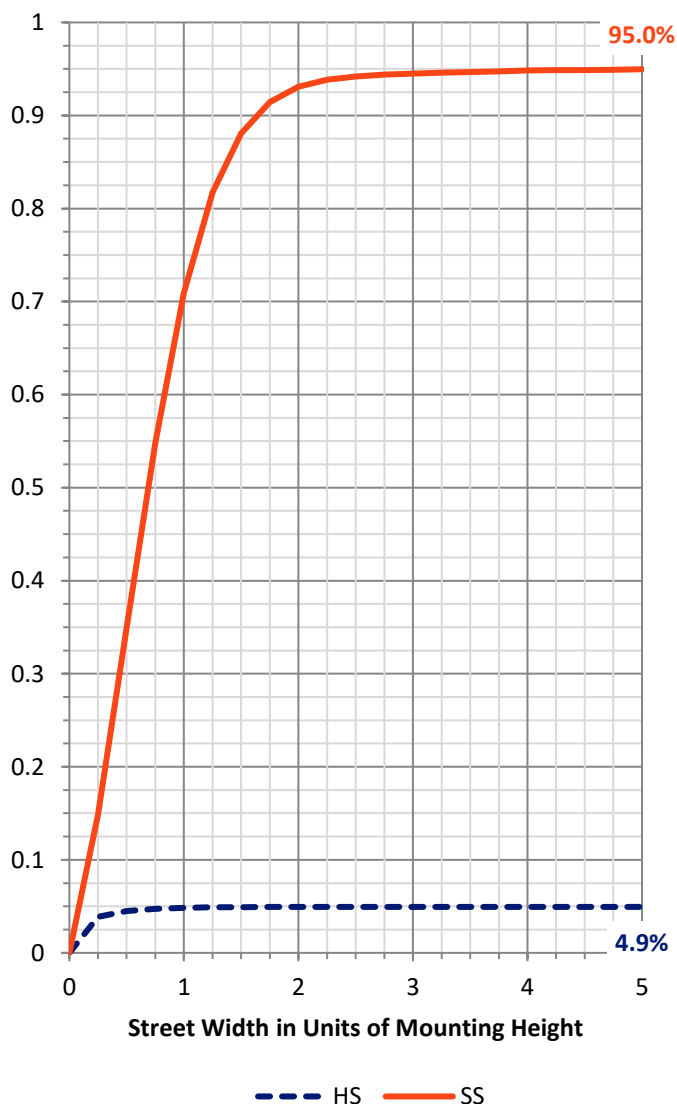
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.3	0.0	419.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8023.7	0.0	8023.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	8443.0	0.0	8443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.1
10°-20°	353.0	4.2
20°-30°	718.3	8.5
30°-40°	1246.8	14.8
40°-50°	1761.6	20.9
50°-60°	1997.7	23.7
60°-70°	1656.9	19.6
70°-80°	600.2	7.1
80°-90°	19.5	0.2
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°	8443.0	100.0
0°-180°	8443.0	100.0

Coefficient of Utilization

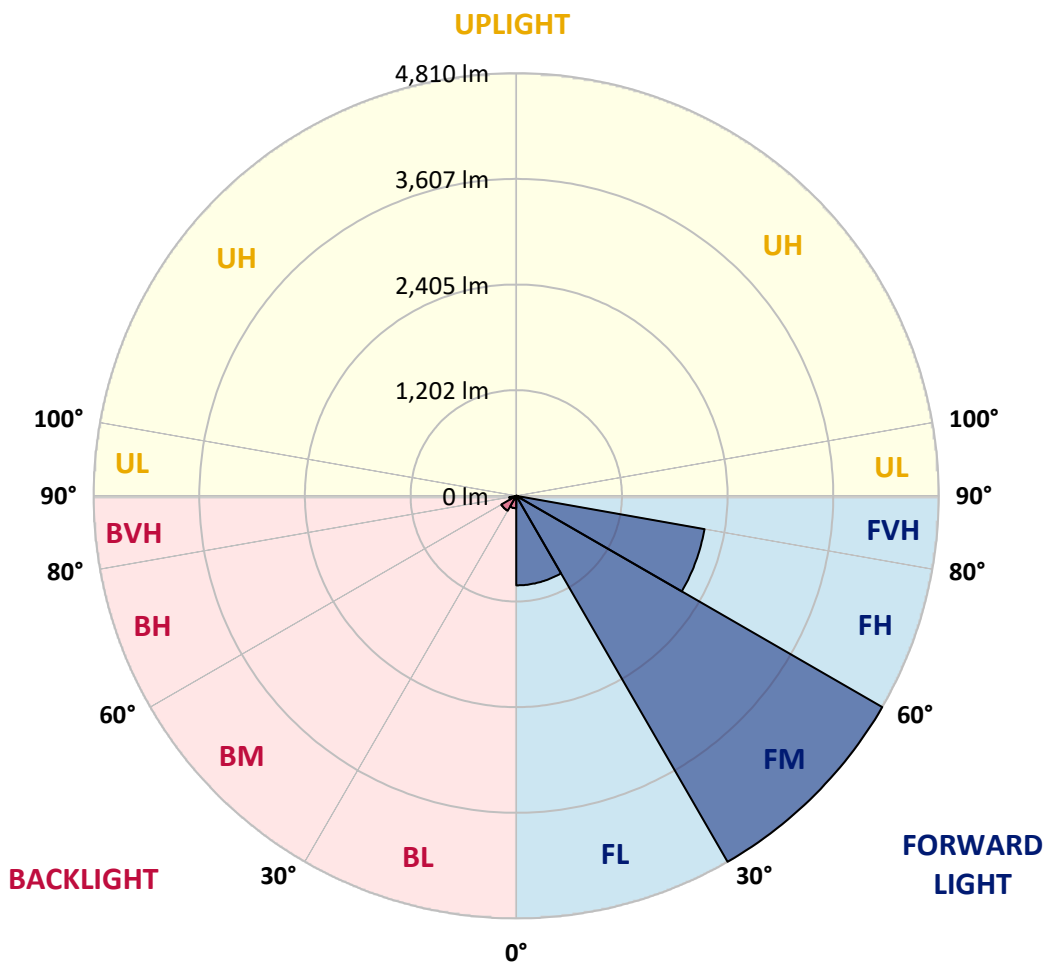


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.0	12.1			
FM (30°-60°)	4809.8	57.0			
FH (60°-80°)	2176.0	25.8			G2/5000
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	141.4	1.7	B1/500		
BM (30°-60°)	196.2	2.3	B0/220		
BH (60°-80°)	81.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2
2.5°	1069.1	1045.1	1050.6	1035.1	1007.0	949.3	900.1	853.5	799.1	797.2	752.5
5°	1441.7	1421.3	1418.7	1387.3	1336.2	1238.2	1142.8	1034.0	912.7	903.8	808.7
7.5°	1779.8	1763.5	1757.6	1720.2	1625.2	1529.7	1405.4	1245.6	1055.8	1039.5	884.5
10°	2039.5	2031.7	2033.2	2006.6	1925.2	1836.4	1673.3	1469.4	1218.2	1193.1	975.5
12.5°	2236.3	2238.2	2251.5	2235.2	2189.7	2123.8	1949.6	1708.0	1398.0	1363.6	1079.5
15°	2381.0	2390.2	2414.6	2435.0	2431.6	2374.7	2214.9	1950.3	1588.9	1550.8	1195.3
17.5°	2474.6	2484.9	2520.4	2565.6	2607.0	2593.7	2470.9	2184.1	1782.0	1738.0	1319.2
20°	2556.7	2568.9	2607.0	2666.6	2743.9	2760.5	2679.9	2410.9	1974.8	1921.1	1447.2
22.5°	2734.6	2734.3	2757.6	2792.3	2866.0	2908.9	2857.8	2621.4	2165.3	2109.4	1577.8
25°	3056.5	3044.3	3036.1	3008.8	3025.0	3051.7	3023.2	2818.2	2356.9	2300.3	1710.2
27.5°	3439.0	3446.4	3380.5	3306.9	3250.0	3222.6	3176.0	3000.6	2541.1	2479.0	1839.7
30°	3842.6	3844.8	3767.1	3673.2	3547.8	3443.8	3363.2	3174.9	2730.6	2662.9	1965.5
32.5°	4206.6	4192.2	4115.3	3987.3	3828.9	3712.0	3544.4	3369.4	2931.1	2865.6	2105.3
35°	4495.2	4478.2	4384.6	4268.0	4103.8	3986.1	3784.5	3563.7	3141.9	3077.9	2245.6
37.5°	4706.1	4686.1	4589.9	4470.0	4328.3	4259.9	4063.1	3774.9	3372.0	3303.2	2393.2
40°	4779.3	4761.9	4701.6	4613.9	4500.0	4484.5	4358.7	4018.0	3622.5	3549.2	2560.4
42.5°	4735.6	4718.6	4697.2	4667.6	4620.2	4635.0	4637.6	4295.0	3900.7	3828.5	2745.0
45°	4562.5	4547.3	4569.5	4612.8	4671.6	4744.9	4892.1	4592.9	4211.4	4134.5	2958.4
47.5°	4307.6	4296.5	4357.9	4466.0	4638.0	4840.0	5124.8	4905.8	4560.3	4488.9	3224.8
50°	3945.1	3943.2	4066.1	4263.2	4527.7	4885.8	5365.3	5261.7	5044.9	4969.8	3595.1
52.5°	3380.5	3384.2	3625.8	3941.4	4334.3	4854.8	5519.9	5719.0	5608.7	5530.7	3915.9
55°	2843.0	2865.2	3036.5	3491.5	4037.6	4739.3	5573.2	5932.4	5919.8	5845.8	4094.2
57.5°	2316.6	2356.9	2521.9	2947.0	3604.4	4473.4	5544.0	6024.9	6151.4	6094.8	4329.5
60°	1746.1	1764.6	1954.8	2352.1	3048.3	3988.0	5332.0	6075.2	6468.1	6428.9	4670.9
62.5°	1110.9	1157.2	1325.9	1709.1	2373.6	3314.0	4974.6	6074.5	6864.3	6885.8	5111.5
65°	585.3	639.3	728.8	1059.1	1631.1	2561.1	4437.1	6017.5	7350.4	7380.4	5455.9
67.5°	315.6	331.1	378.5	549.7	945.9	1735.0	3647.3	5736.3	7631.9	7671.5	5504.0
70°	230.8	239.4	257.1	304.1	476.1	1007.7	2661.4	5098.9	7269.0	7254.2	4890.3
72.5°	177.2	190.5	203.8	222.7	273.8	537.9	1657.0	3992.8	5800.0	5702.3	3655.4
75°	139.8	142.1	160.9	177.9	205.3	306.3	735.8	2325.5	3540.0	3308.8	1895.6
77.5°	111.7	113.2	124.3	139.1	165.0	201.2	227.9	914.9	1130.2	1008.5	411.4
80°	66.2	69.9	92.5	107.3	136.9	126.9	83.2	198.7	176.5	159.8	69.2
82.5°	37.0	40.0	52.2	84.7	95.4	60.7	41.4	53.6	41.4	40.3	19.6
85°	0.0	1.8	33.7	52.5	38.8	13.3	17.4	17.8	12.2	11.5	7.8
87.5°	0.0	0.0	10.4	10.0	1.5	2.2	4.1	5.9	4.8	4.8	4.1
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°	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2	716.2
2.5°	730.3	710.3	672.6	635.6	604.5	579.0	556.0	546.8	539.4	538.3	532.3
5°	762.8	722.5	650.4	591.2	551.6	523.5	499.4	484.6	473.2	468.7	464.6
7.5°	812.0	751.0	647.4	579.3	532.0	484.6	440.2	392.1	362.2	350.7	344.0
10°	872.0	788.7	658.5	576.0	493.1	393.3	319.6	258.6	233.8	225.7	223.4
12.5°	941.9	835.7	677.7	555.3	410.3	279.3	220.5	199.8	194.2	191.6	191.6
15°	1022.2	887.1	691.4	495.4	303.4	211.2	190.9	181.3	175.4	172.0	172.4
17.5°	1104.3	937.4	684.8	408.4	223.8	187.9	172.8	162.4	154.3	150.9	150.2
20°	1187.1	984.1	647.8	304.1	189.4	170.5	153.5	142.1	133.9	130.6	129.9
22.5°	1273.0	1023.6	582.7	223.1	170.2	151.3	134.7	123.2	115.4	112.5	111.0
25°	1356.6	1055.8	491.7	180.5	152.0	133.2	117.3	106.5	99.5	96.6	96.2
27.5°	1434.6	1076.2	386.2	159.4	136.1	116.9	102.5	92.9	86.9	84.7	84.3
30°	1504.9	1078.0	285.6	143.9	122.1	102.8	89.5	81.0	75.8	73.6	72.9
32.5°	1576.0	1062.5	207.9	129.9	109.1	90.6	77.7	71.0	67.3	65.5	65.5
35°	1642.9	1026.6	162.0	117.6	96.6	78.8	68.4	63.6	61.4	59.6	59.6
37.5°	1708.4	975.2	137.6	106.9	84.7	68.8	60.3	57.3	55.5	53.6	53.6
40°	1775.0	910.4	125.0	96.9	75.1	61.0	53.6	51.1	49.2	47.7	47.4
42.5°	1856.7	835.7	116.9	87.7	66.6	54.0	47.4	44.4	42.9	41.4	40.7
45°	1951.5	771.3	110.2	78.4	59.6	48.1	41.1	38.1	35.9	34.0	33.7
47.5°	2088.0	724.7	101.4	68.4	52.9	41.8	35.5	32.2	28.9	27.0	26.6
50°	2262.2	686.2	89.9	59.6	46.2	35.5	29.6	25.5	22.6	20.7	20.7
52.5°	2348.8	635.9	79.5	51.8	38.8	30.0	24.0	19.2	17.8	15.9	15.9
55°	2383.5	597.5	69.2	44.0	32.2	24.8	18.9	14.8	13.7	12.6	12.2
57.5°	2481.2	586.4	60.3	37.4	26.6	19.6	14.4	11.1	10.4	8.9	8.9
60°	2638.4	591.9	52.2	31.8	21.5	15.2	10.7	8.5	7.8	6.3	6.3
62.5°	2808.2	584.9	44.0	27.4	16.6	11.1	7.4	6.3	6.3	3.7	3.3
65°	2840.8	520.9	37.7	22.6	12.9	8.1	4.8	4.1	5.5	0.7	0.0
67.5°	2636.6	404.0	32.6	17.4	9.6	6.3	3.7	1.8	4.8	0.0	0.0
70°	2108.3	256.7	26.3	12.6	7.4	5.2	3.0	0.7	3.7	0.0	0.0
72.5°	1490.9	149.1	20.7	8.9	6.3	4.1	2.2	0.0	2.2	0.0	0.0
75°	753.9	79.5	12.9	6.7	4.8	3.0	1.5	0.0	0.4	0.0	0.0
77.5°	163.1	37.0	8.1	4.8	3.3	1.8	0.7	0.0	0.0	0.0	0.0
80°	35.5	16.3	5.2	3.0	1.8	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	8.5	2.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.5	0.4	0.4	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)