

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: P321406

Luminaire Tested: **GLEON-SA2C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321406
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-SA2C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8587 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

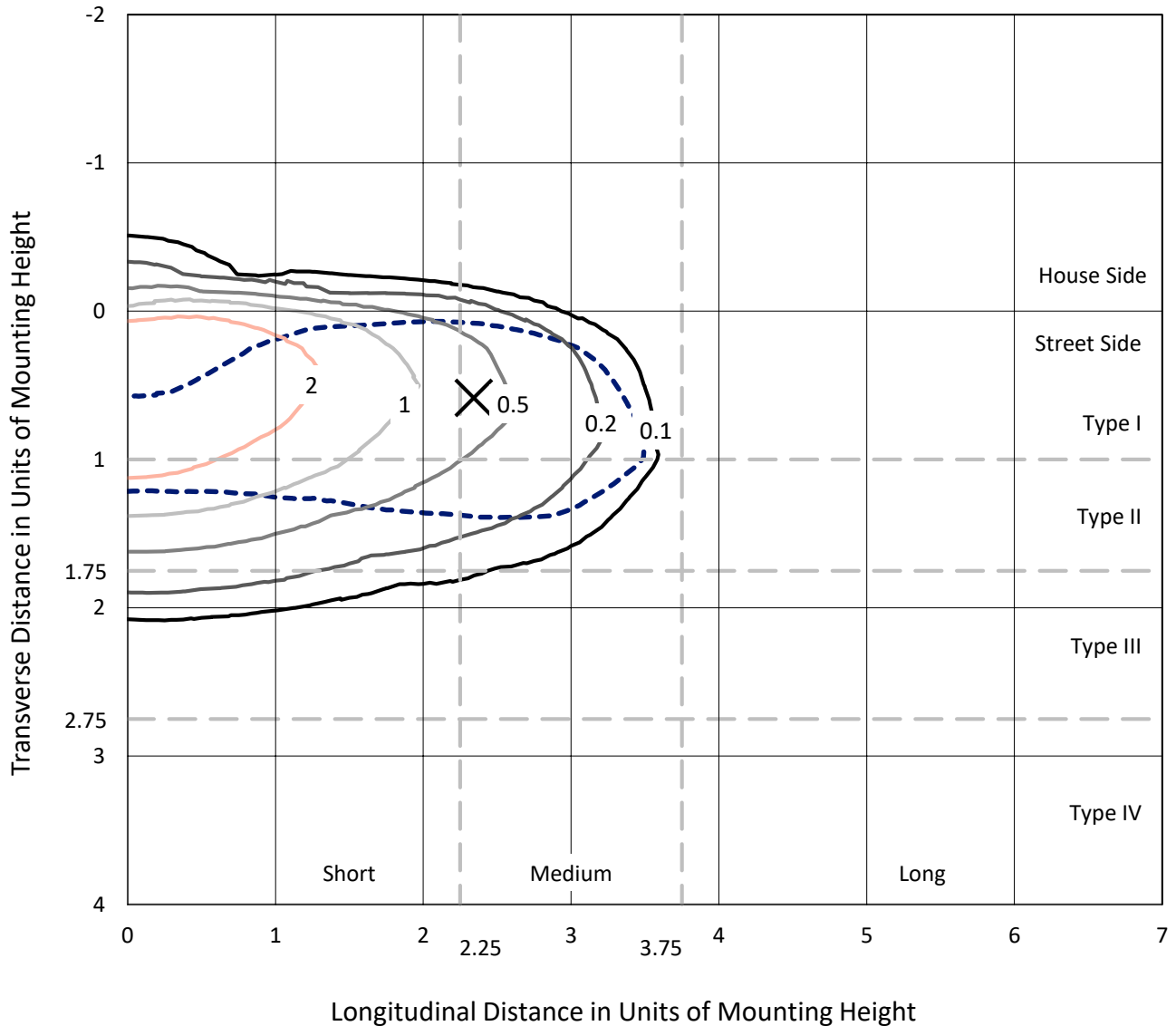




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Iso-Footcandle Lines of Horizontal Illumination

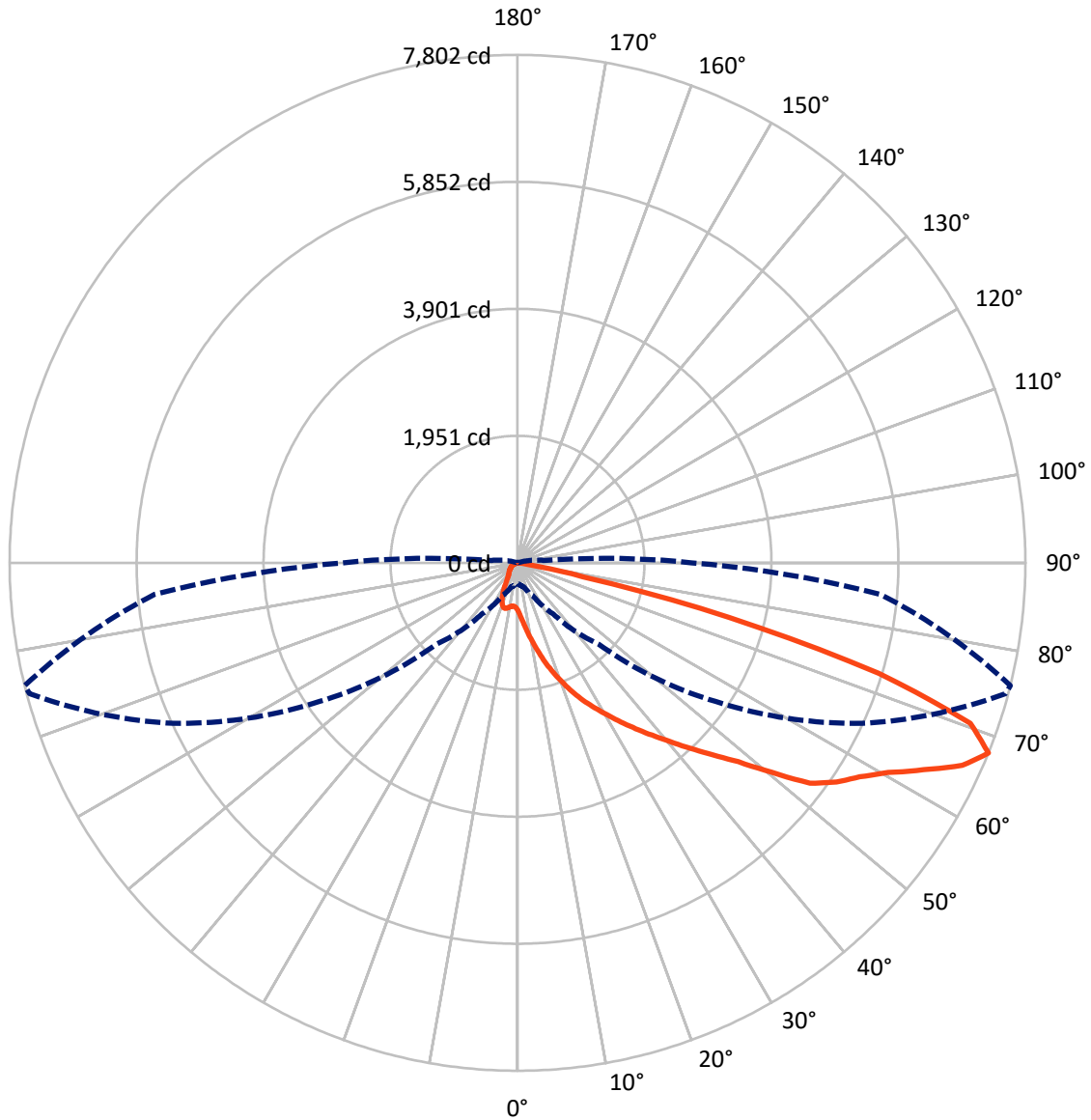
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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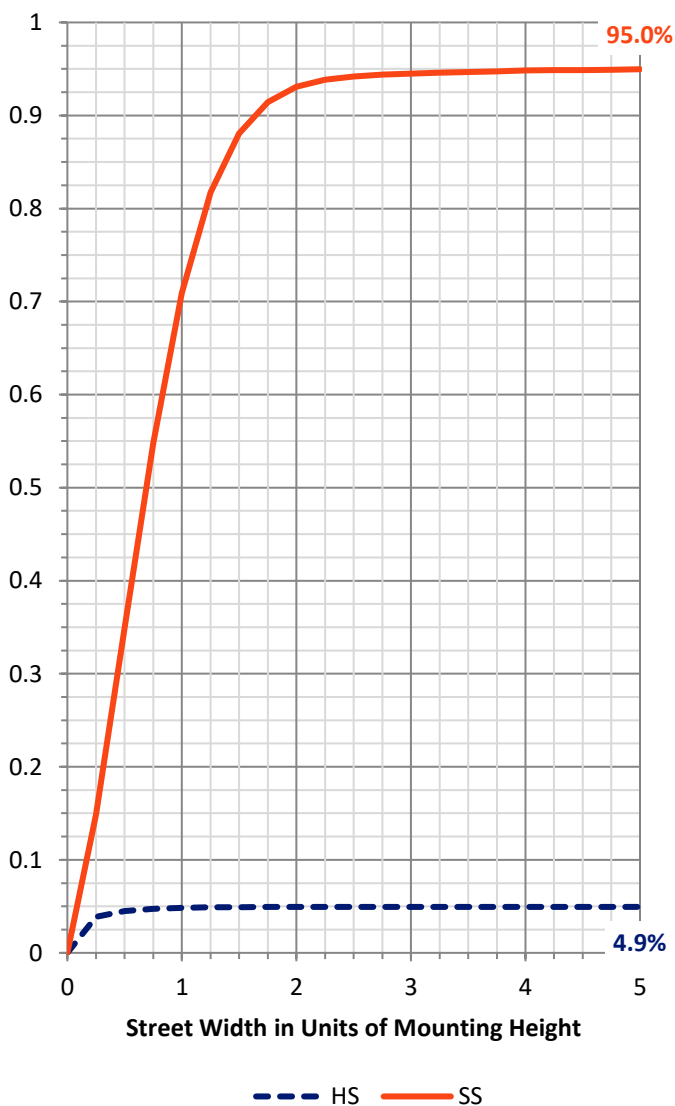
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.4	0.0	426.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8160.6	0.0	8160.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	8587.0	0.0	8587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.1
10°-20°	359.1	4.2
20°-30°	730.6	8.5
30°-40°	1268.1	14.8
40°-50°	1791.6	20.9
50°-60°	2031.8	23.7
60°-70°	1685.2	19.6
70°-80°	610.4	7.1
80°-90°	19.8	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°	8587.0	100.0
0°-180°	8587.0	100.0

Coefficient of Utilization

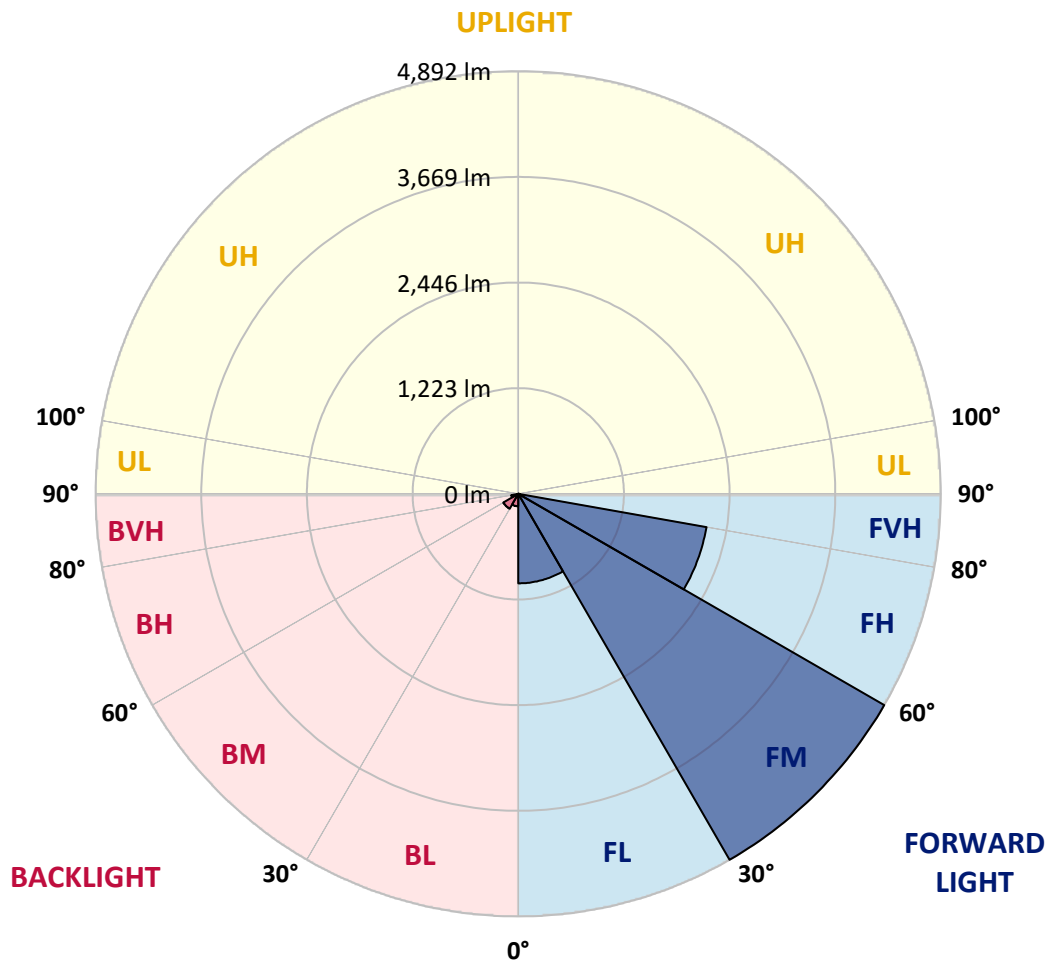


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.4	12.1			
FM (30°-60°)	4891.8	57.0			
FH (60°-80°)	2213.2	25.8			G2/5000
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	143.8	1.7	B1/500		
BM (30°-60°)	199.6	2.3	B0/220		
BH (60°-80°)	82.4	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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4
2.5°	1087.4	1062.9	1068.6	1052.8	1024.2	965.5	915.4	868.0	812.7	810.8	765.3
5°	1466.3	1445.6	1442.9	1410.9	1359.0	1259.3	1162.2	1051.6	928.2	919.2	822.5
7.5°	1810.2	1793.6	1787.6	1749.6	1652.9	1555.8	1429.4	1266.8	1073.8	1057.3	899.6
10°	2074.3	2066.4	2067.9	2040.8	1958.0	1867.7	1701.8	1494.5	1239.0	1213.4	992.2
12.5°	2274.5	2276.3	2289.9	2273.3	2227.0	2160.1	1982.9	1737.2	1421.9	1386.9	1097.9
15°	2421.6	2431.0	2455.8	2476.5	2473.1	2415.2	2252.6	1983.6	1616.0	1577.3	1215.7
17.5°	2516.8	2527.3	2563.4	2609.3	2651.5	2637.9	2513.0	2221.4	1812.4	1767.6	1341.7
20°	2600.3	2612.7	2651.5	2712.0	2790.7	2807.6	2725.6	2452.0	2008.4	1953.9	1471.9
22.5°	2781.3	2780.9	2804.6	2840.0	2914.8	2958.5	2906.6	2666.1	2202.2	2145.4	1604.7
25°	3108.6	3096.2	3087.9	3060.1	3076.6	3103.7	3074.7	2866.3	2397.1	2339.5	1739.4
27.5°	3497.7	3505.2	3438.2	3363.3	3305.4	3277.5	3230.1	3051.8	2584.5	2521.3	1871.1
30°	3908.1	3910.4	3831.4	3735.8	3608.3	3502.5	3420.5	3229.0	2777.1	2708.3	1999.0
32.5°	4278.4	4263.7	4185.4	4055.3	3894.2	3775.3	3604.9	3426.9	2981.1	2914.5	2141.3
35°	4571.9	4554.5	4459.4	4340.8	4173.8	4054.1	3849.1	3624.4	3195.5	3130.4	2283.9
37.5°	4786.3	4766.0	4668.2	4546.3	4402.2	4332.6	4132.4	3839.3	3429.5	3359.6	2434.0
40°	4860.8	4843.1	4781.8	4692.6	4576.7	4560.9	4433.0	4086.5	3684.3	3609.8	2604.0
42.5°	4816.4	4799.1	4777.3	4747.2	4699.0	4714.1	4716.7	4368.3	3967.2	3893.8	2791.8
45°	4640.3	4624.9	4647.5	4691.5	4751.3	4825.8	4975.6	4671.2	4283.3	4205.0	3008.9
47.5°	4381.1	4369.8	4432.3	4542.1	4717.1	4922.5	5212.2	4989.5	4638.1	4565.5	3279.8
50°	4012.4	4010.5	4135.4	4335.9	4605.0	4969.2	5456.8	5351.5	5131.0	5054.6	3656.4
52.5°	3438.2	3442.0	3687.7	4008.6	4408.2	4937.6	5614.1	5816.5	5704.4	5625.0	3982.6
55°	2891.5	2914.1	3088.3	3551.1	4106.4	4820.2	5668.3	6033.6	6020.8	5945.6	4164.0
57.5°	2356.1	2397.1	2564.9	2997.2	3665.8	4549.7	5638.5	6127.7	6256.3	6198.8	4403.3
60°	1775.9	1794.7	1988.1	2392.2	3100.3	4056.0	5422.9	6178.8	6578.4	6538.5	4750.6
62.5°	1129.9	1176.9	1348.5	1738.3	2414.0	3370.5	5059.5	6178.1	6981.4	7003.2	5198.7
65°	595.2	650.2	741.2	1077.2	1658.9	2604.8	4512.8	6120.1	7475.8	7506.3	5549.0
67.5°	320.9	336.7	384.9	559.1	962.1	1764.6	3709.5	5834.2	7762.1	7802.4	5597.9
70°	234.8	243.4	261.5	309.3	484.2	1024.9	2706.8	5185.9	7393.0	7378.0	4973.7
72.5°	180.2	193.8	207.3	226.5	278.4	547.1	1685.2	4060.9	5898.9	5799.6	3717.8
75°	142.2	144.5	163.7	181.0	208.8	311.5	748.4	2365.1	3600.4	3365.2	1927.9
77.5°	113.6	115.1	126.4	141.5	167.8	204.7	231.8	930.5	1149.5	1025.7	418.4
80°	67.3	71.1	94.1	109.1	139.2	129.1	84.7	202.0	179.5	162.5	70.4
82.5°	37.6	40.6	53.1	86.2	97.1	61.7	42.1	54.6	42.1	41.0	19.9
85°	0.0	1.9	34.2	53.4	39.5	13.5	17.7	18.1	12.4	11.7	7.9
87.5°	0.0	0.0	10.5	10.2	1.5	2.3	4.1	6.0	4.9	4.9	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°	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4	728.4
2.5°	742.7	722.4	684.0	646.4	614.8	588.8	565.5	556.1	548.6	547.4	541.4
5°	775.8	734.8	661.5	601.3	561.0	532.4	507.9	492.9	481.2	476.7	472.6
7.5°	825.9	763.8	658.4	589.2	541.1	492.9	447.7	398.8	368.4	356.7	349.9
10°	886.8	802.2	669.7	585.8	501.5	400.0	325.1	263.0	237.8	229.5	227.3
12.5°	957.9	850.0	689.3	564.8	417.3	284.1	224.2	203.2	197.5	194.9	194.9
15°	1039.6	902.3	703.2	503.8	308.5	214.8	194.1	184.4	178.3	175.0	175.3
17.5°	1123.1	953.4	696.4	415.4	227.6	191.1	175.7	165.2	156.9	153.5	152.8
20°	1207.4	1000.8	658.8	309.3	192.6	173.5	156.1	144.5	136.2	132.8	132.1
22.5°	1294.7	1041.1	592.6	226.9	173.1	153.9	137.0	125.3	117.4	114.4	112.9
25°	1379.7	1073.8	500.0	183.6	154.6	135.5	119.3	108.4	101.2	98.2	97.8
27.5°	1459.1	1094.5	392.8	162.2	138.5	118.9	104.2	94.4	88.4	86.2	85.8
30°	1530.6	1096.4	290.5	146.4	124.2	104.6	91.1	82.4	77.1	74.9	74.1
32.5°	1602.8	1080.6	211.5	132.1	111.0	92.2	79.0	72.2	68.5	66.6	66.6
35°	1670.9	1044.1	164.8	119.6	98.2	80.1	69.6	64.7	62.5	60.6	60.6
37.5°	1737.5	991.8	140.0	108.7	86.2	70.0	61.3	58.3	56.4	54.6	54.6
40°	1805.3	926.0	127.2	98.6	76.4	62.1	54.6	51.9	50.0	48.5	48.2
42.5°	1888.4	850.0	118.9	89.2	67.7	54.9	48.2	45.2	43.6	42.1	41.4
45°	1984.7	784.5	112.1	79.8	60.6	48.9	41.8	38.8	36.5	34.6	34.2
47.5°	2123.6	737.1	103.1	69.6	53.8	42.5	36.1	32.7	29.3	27.5	27.1
50°	2300.8	697.9	91.4	60.6	47.0	36.1	30.1	26.0	23.0	21.1	21.1
52.5°	2388.8	646.8	80.9	52.7	39.5	30.5	24.5	19.6	18.1	16.2	16.2
55°	2424.2	607.6	70.4	44.8	32.7	25.2	19.2	15.1	13.9	12.8	12.4
57.5°	2523.5	596.4	61.3	38.0	27.1	19.9	14.7	11.3	10.5	9.0	9.0
60°	2683.4	602.0	53.1	32.4	21.8	15.4	10.9	8.7	7.9	6.4	6.4
62.5°	2856.1	594.9	44.8	27.8	16.9	11.3	7.5	6.4	6.4	3.8	3.4
65°	2889.2	529.8	38.4	23.0	13.2	8.3	4.9	4.1	5.6	0.8	0.0
67.5°	2681.6	410.9	33.1	17.7	9.8	6.4	3.8	1.9	4.9	0.0	0.0
70°	2144.3	261.1	26.7	12.8	7.5	5.3	3.0	0.8	3.8	0.0	0.0
72.5°	1516.3	151.6	21.1	9.0	6.4	4.1	2.3	0.0	2.3	0.0	0.0
75°	766.8	80.9	13.2	6.8	4.9	3.0	1.5	0.0	0.4	0.0	0.0
77.5°	165.9	37.6	8.3	4.9	3.4	1.9	0.8	0.0	0.0	0.0	0.0
80°	36.1	16.6	5.3	3.0	1.9	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	8.7	2.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	4.5	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	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)