

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: P323648

Luminaire Tested: **GLEON-SA4C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323648
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-SA4C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 17919 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

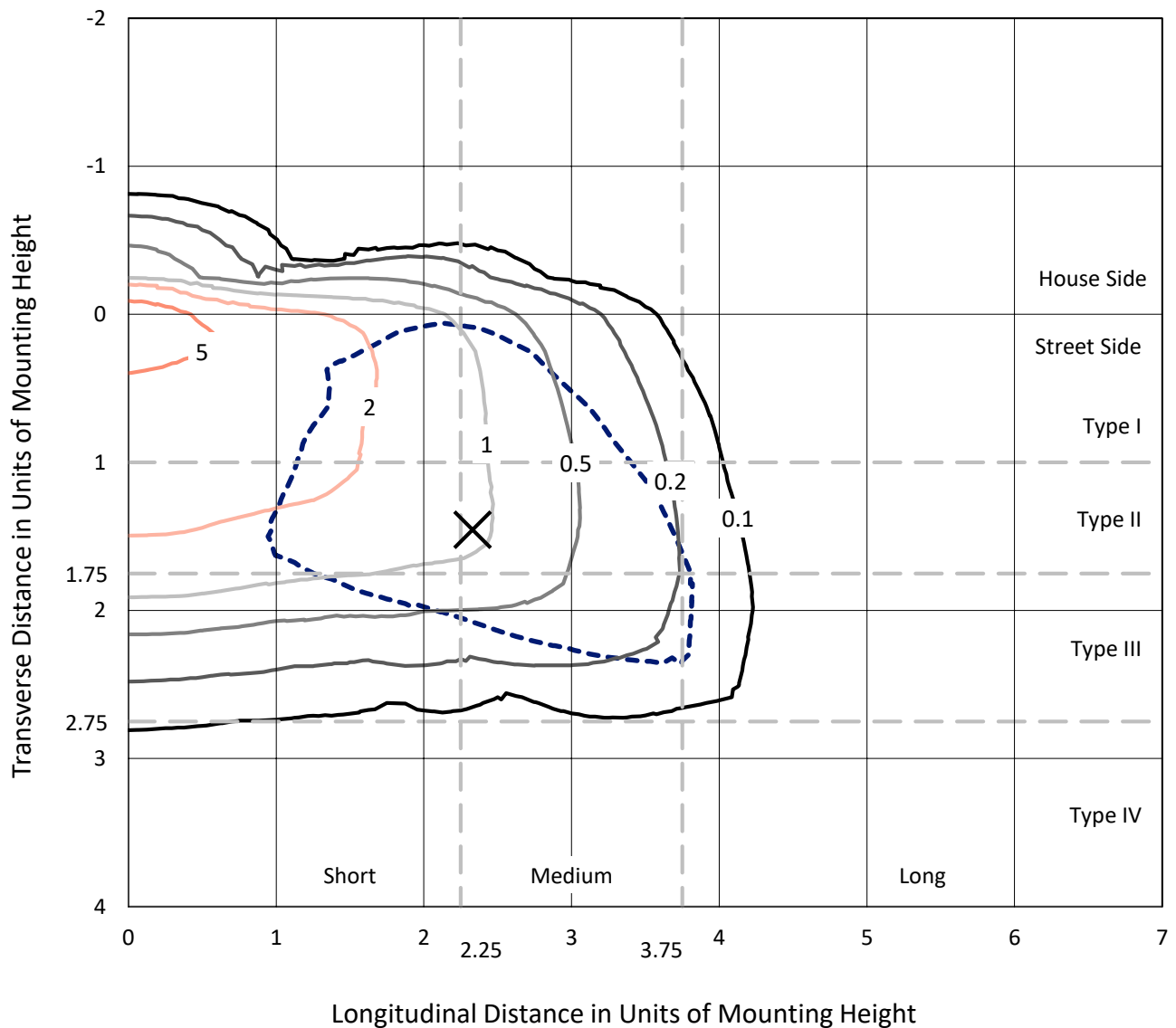
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

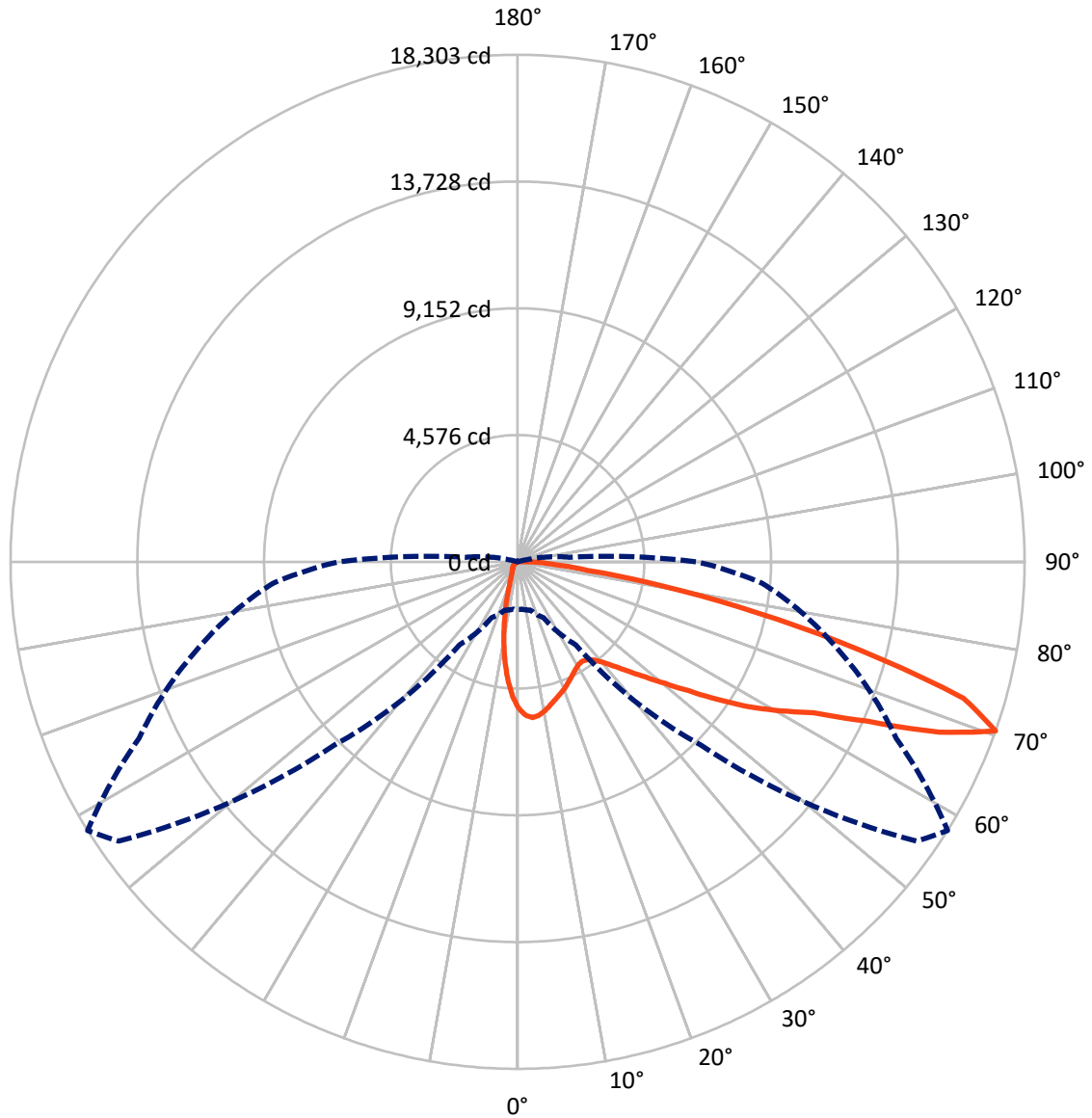
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	1533.5	0.0	1533.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	16385.5	0.0	16385.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	17919.0	0.0	17919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.8	2.4
10°-20°	908.4	5.1
20°-30°	1194.3	6.7
30°-40°	1581.7	8.8
40°-50°	2364.2	13.2
50°-60°	3787.3	21.1
60°-70°	4773.9	26.6
70°-80°	2575.0	14.4
80°-90°	301.4	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°	17919.0	100.0
0°-180°	17919.0	100.0

Coefficient of Utilization

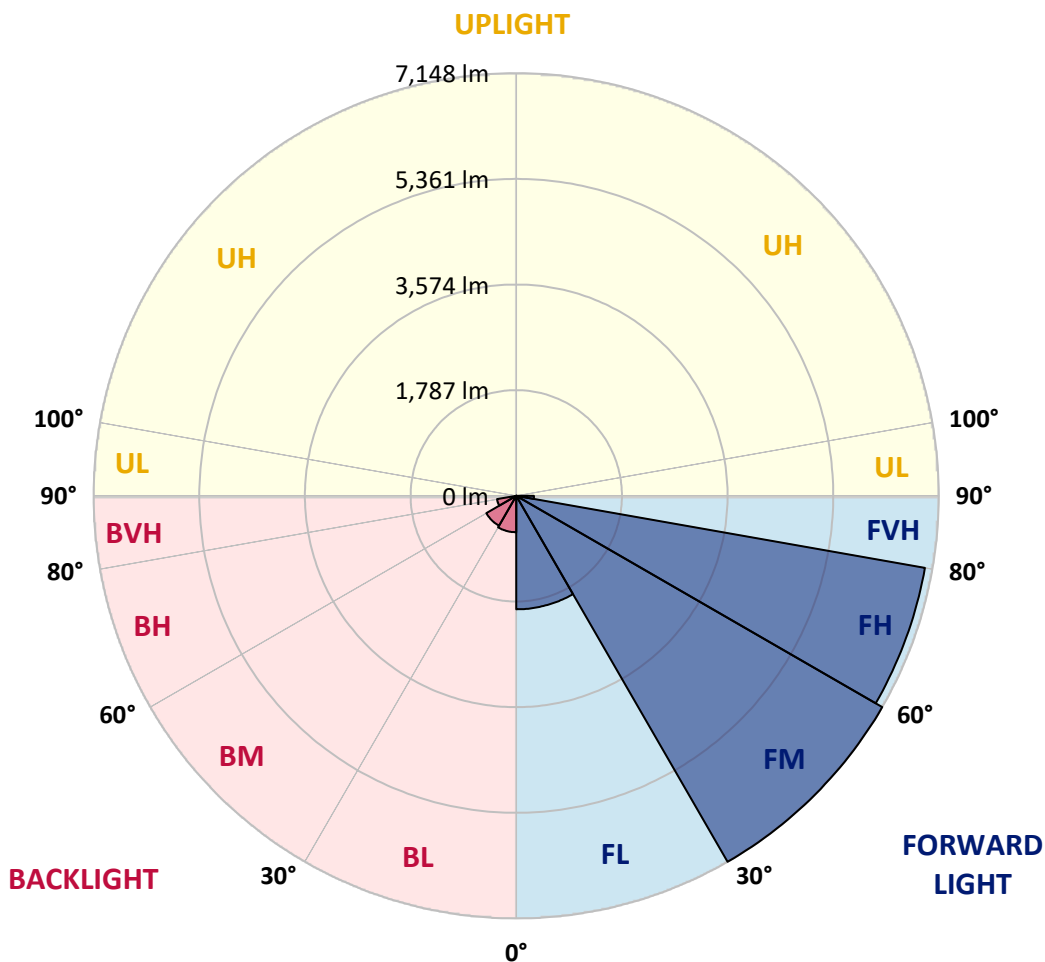


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.5	10.7			
FM (30°-60°)	7148.2	39.9			
FH (60°-80°)	7019.1	39.2			G3/7500
FVH (80°-90°)	298.8	1.7			G3/500
BL (0°-30°)	616.1	3.4	B2/1000		
BM (30°-60°)	585.0	3.3	B1/1000		
BH (60°-80°)	329.8	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2
2.5°	5732.1	5717.9	5712.7	5703.7	5669.5	5635.9	5569.6	5551.0	5509.3	5410.2	5305.1
5°	5736.5	5735.8	5751.4	5747.7	5735.8	5720.1	5672.4	5647.9	5577.1	5435.5	5243.3
7.5°	5460.1	5474.2	5509.3	5537.6	5570.4	5612.8	5618.8	5595.0	5536.8	5384.1	5129.3
10°	5089.0	5111.4	5160.6	5216.4	5302.1	5387.1	5463.1	5460.1	5440.0	5289.5	4992.2
12.5°	4717.2	4743.3	4799.9	4882.6	5004.1	5142.7	5278.3	5296.9	5330.4	5204.5	4865.5
15°	4391.6	4414.0	4469.9	4571.2	4721.7	4908.0	5106.9	5141.2	5227.6	5138.2	4759.7
17.5°	4115.2	4129.3	4170.3	4282.8	4457.2	4683.0	4941.5	5008.6	5137.5	5086.1	4668.0
20°	3922.2	3924.4	3951.3	4030.2	4204.6	4457.2	4770.1	4866.2	5042.1	5041.3	4573.4
22.5°	3826.8	3819.4	3824.6	3870.0	3998.2	4241.9	4598.8	4712.8	4956.4	5003.3	4477.3
25°	3808.9	3803.0	3788.1	3794.0	3871.5	4053.3	4425.9	4557.8	4881.1	4980.2	4393.9
27.5°	3864.8	3870.8	3845.5	3818.6	3824.6	3931.1	4272.4	4425.1	4820.0	4980.2	4335.0
30°	3977.3	3980.3	3961.7	3926.7	3879.7	3896.9	4165.9	4318.6	4789.5	5014.5	4297.7
32.5°	4101.8	4118.2	4115.9	4087.6	4020.6	3951.3	4140.5	4279.9	4787.3	5090.5	4294.0
35°	4256.0	4274.6	4305.9	4300.0	4229.9	4115.9	4227.0	4336.5	4831.2	5215.7	4334.2
37.5°	4419.9	4448.2	4515.3	4547.3	4501.9	4373.0	4420.7	4498.9	4949.0	5418.4	4436.3
40°	4578.6	4610.7	4732.9	4858.8	4824.5	4691.9	4714.2	4776.8	5158.3	5709.7	4630.0
42.5°	4734.4	4782.0	4961.6	5168.8	5209.7	5103.9	5115.9	5165.8	5469.0	6110.6	4946.7
45°	4920.6	4974.3	5240.3	5495.9	5605.4	5559.2	5609.9	5642.6	5875.1	6640.3	5373.7
47.5°	5194.1	5255.9	5582.3	5873.6	6065.9	6095.7	6197.7	6219.3	6388.5	7257.3	5930.2
50°	5727.6	5744.7	6039.8	6304.3	6581.5	6760.3	6876.5	6892.9	7009.9	7931.6	6625.4
52.5°	6398.9	6410.1	6577.0	6754.3	7069.5	7434.6	7706.6	7729.7	7754.3	8588.8	7311.7
55°	7065.8	7064.3	7174.6	7278.9	7639.5	8170.0	8760.1	8774.3	8597.7	9212.4	7836.2
57.5°	7482.3	7522.5	7690.2	7824.3	8328.0	9008.3	9827.1	9879.3	9483.6	9674.4	8354.8
60°	7349.7	7369.0	7740.8	8237.1	9185.6	10199.7	10906.8	10920.2	10149.7	10135.6	9010.5
62.5°	6261.8	6272.2	6856.4	7879.4	9620.0	11745.0	12209.2	11990.9	10915.7	10775.6	9795.1
65°	4291.8	4359.6	4847.6	6112.1	8822.0	12714.4	14225.4	13864.1	12083.3	11698.1	10504.4
67.5°	2527.4	2513.2	2754.6	3686.0	6479.4	12070.6	16775.9	16416.8	13675.6	12315.8	10296.5
70°	1726.4	1716.7	1809.1	2231.6	3657.7	9363.7	17578.4	18303.4	15081.6	11900.0	8861.5
72.5°	1232.4	1237.6	1374.0	1733.8	2296.4	5455.6	15116.6	16832.5	14641.2	10374.0	6735.7
75°	836.7	850.9	1046.1	1422.4	2013.3	2775.5	10727.2	12795.6	11922.3	7539.7	3871.5
77.5°	450.0	465.7	695.9	1146.0	1820.3	1928.3	6900.4	8806.3	7489.0	3389.5	1122.1
80°	187.8	196.7	325.6	833.0	1572.9	1693.6	4060.0	5340.1	3191.3	668.4	250.4
82.5°	81.2	85.7	135.6	497.0	1175.8	1429.8	2149.6	2569.1	967.1	146.8	125.9
85°	15.6	16.4	55.9	263.0	750.3	806.9	1393.3	1365.8	434.4	63.3	91.6
87.5°	0.0	0.0	13.4	82.7	220.5	439.6	850.2	839.7	147.5	30.5	34.3
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°	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2	5293.2
2.5°	5251.5	5200.1	5092.0	4958.6	4856.6	4744.0	4654.6	4541.4	4492.2	4494.4	4467.6
5°	5133.7	5027.9	4788.8	4487.0	4254.5	4014.6	3808.2	3602.6	3481.1	3441.6	3404.4
7.5°	4965.3	4797.7	4416.2	3951.3	3557.9	3173.4	2838.8	2544.5	2358.2	2267.3	2233.8
10°	4775.3	4539.9	3987.8	3375.3	2813.5	2293.4	1859.8	1482.7	1332.2	1230.2	1204.1
12.5°	4608.4	4289.5	3569.0	2784.4	2117.6	1490.2	1076.7	842.0	739.9	699.6	692.9
15°	4451.2	4055.6	3165.9	2249.5	1466.4	917.2	684.7	605.0	581.2	574.5	574.5
17.5°	4303.0	3832.8	2771.8	1722.7	970.1	643.0	567.0	549.1	541.7	540.9	541.7
20°	4148.0	3610.0	2384.3	1262.2	677.3	544.7	523.8	514.1	511.9	511.9	511.9
22.5°	3999.7	3387.2	2007.3	901.6	543.2	497.0	486.6	479.8	477.6	476.9	475.4
25°	3857.4	3175.6	1639.2	637.1	476.9	455.3	446.3	437.4	430.7	426.9	424.7
27.5°	3740.4	2987.1	1296.5	511.1	430.7	412.0	400.9	387.5	371.1	363.6	360.6
30°	3647.3	2815.0	999.2	431.4	387.5	368.8	351.7	328.6	304.7	292.1	291.3
32.5°	3574.2	2645.8	758.5	381.5	348.7	325.6	301.0	272.0	244.4	230.2	229.5
35°	3538.5	2496.8	579.7	345.0	314.4	285.4	254.8	222.8	196.0	182.5	181.1
37.5°	3562.3	2370.9	452.3	314.4	285.4	251.8	216.1	182.5	158.7	146.8	146.0
40°	3649.5	2290.4	367.3	288.4	260.8	219.8	181.1	149.8	129.6	120.0	119.2
42.5°	3835.0	2260.6	313.7	266.7	236.9	190.0	150.5	123.7	105.1	98.4	96.9
45°	4145.0	2304.6	277.2	245.9	212.4	161.7	124.4	101.3	84.9	79.7	79.0
47.5°	4557.8	2420.1	251.1	225.8	190.0	136.4	103.6	82.0	69.3	64.1	63.3
50°	5089.8	2603.4	229.5	205.6	169.1	115.5	85.7	64.8	53.6	49.9	49.9
52.5°	5668.7	2821.7	210.1	187.0	148.3	96.1	69.3	49.9	42.5	38.0	38.0
55°	6147.1	3012.4	189.3	172.9	122.9	79.7	52.9	38.0	31.3	29.1	29.1
57.5°	6624.7	3215.9	165.4	148.3	98.4	64.8	40.2	28.3	23.1	21.6	21.6
60°	7243.9	3464.7	142.3	120.7	77.5	49.2	29.8	20.1	17.1	16.4	16.4
62.5°	7924.9	3610.8	121.5	96.9	60.4	36.5	21.6	13.4	12.7	12.7	11.9
65°	8341.4	3404.4	102.1	77.5	46.9	27.6	14.2	9.7	11.2	10.4	8.9
67.5°	7810.1	2665.2	83.5	60.4	36.5	20.9	8.9	6.7	11.9	9.7	7.5
70°	6466.7	1865.7	64.8	42.5	29.1	17.9	6.0	4.5	12.7	9.7	6.0
72.5°	4839.4	1248.8	51.4	28.3	21.6	15.6	5.2	2.2	11.2	8.2	5.2
75°	2644.4	502.9	41.0	17.9	13.4	11.2	3.7	1.5	7.5	6.0	3.7
77.5°	695.9	132.6	29.8	11.9	7.5	4.5	2.2	0.7	3.7	3.0	1.5
80°	177.3	51.4	19.4	8.2	5.2	2.2	0.0	0.0	0.7	0.0	0.0
82.5°	94.6	21.6	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.5	14.2	6.7	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	4.5	2.2	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)