

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: P321390

Luminaire Tested: **GLEON-SA6A-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321390  
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-SA6A-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 16539 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

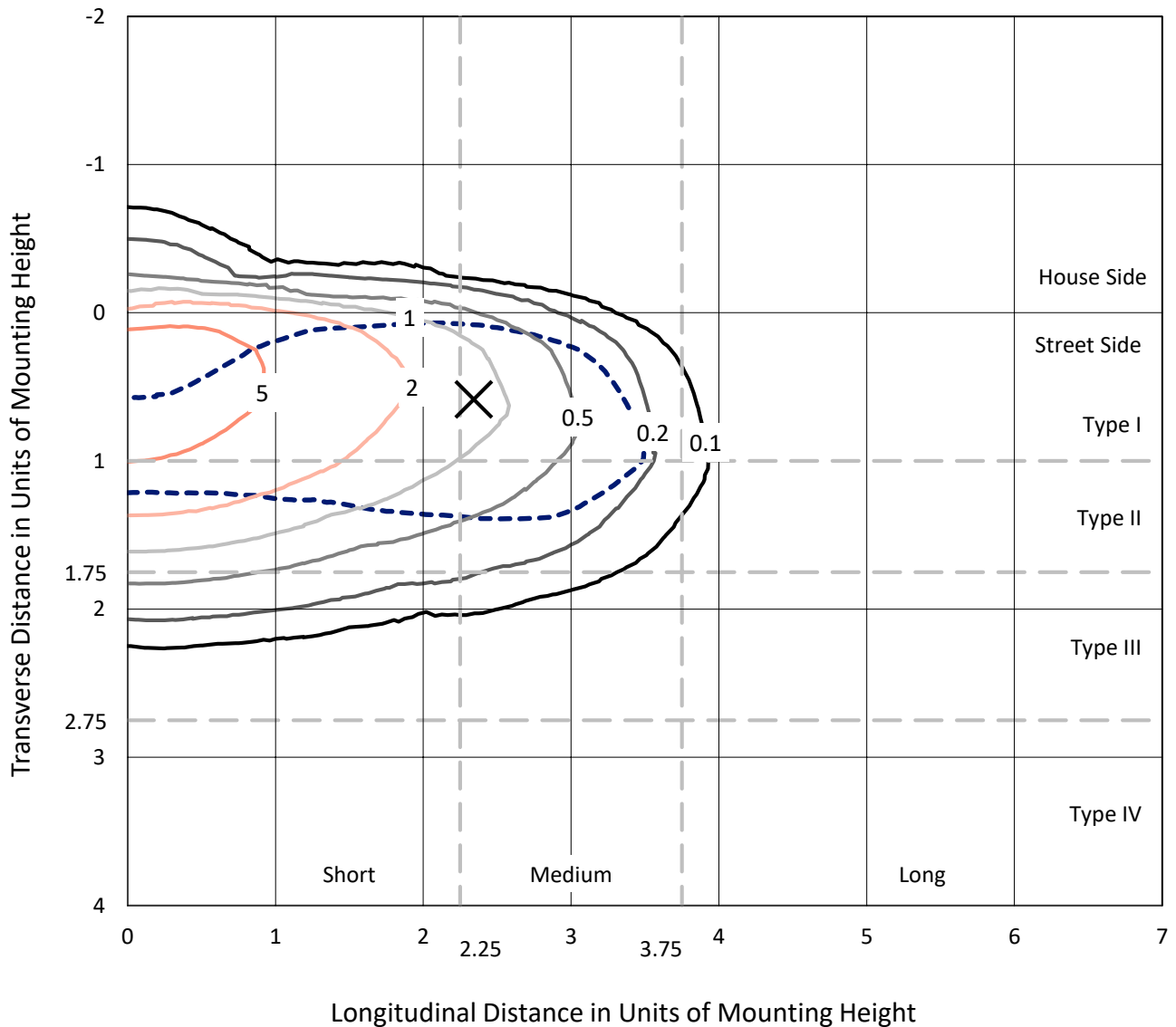
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

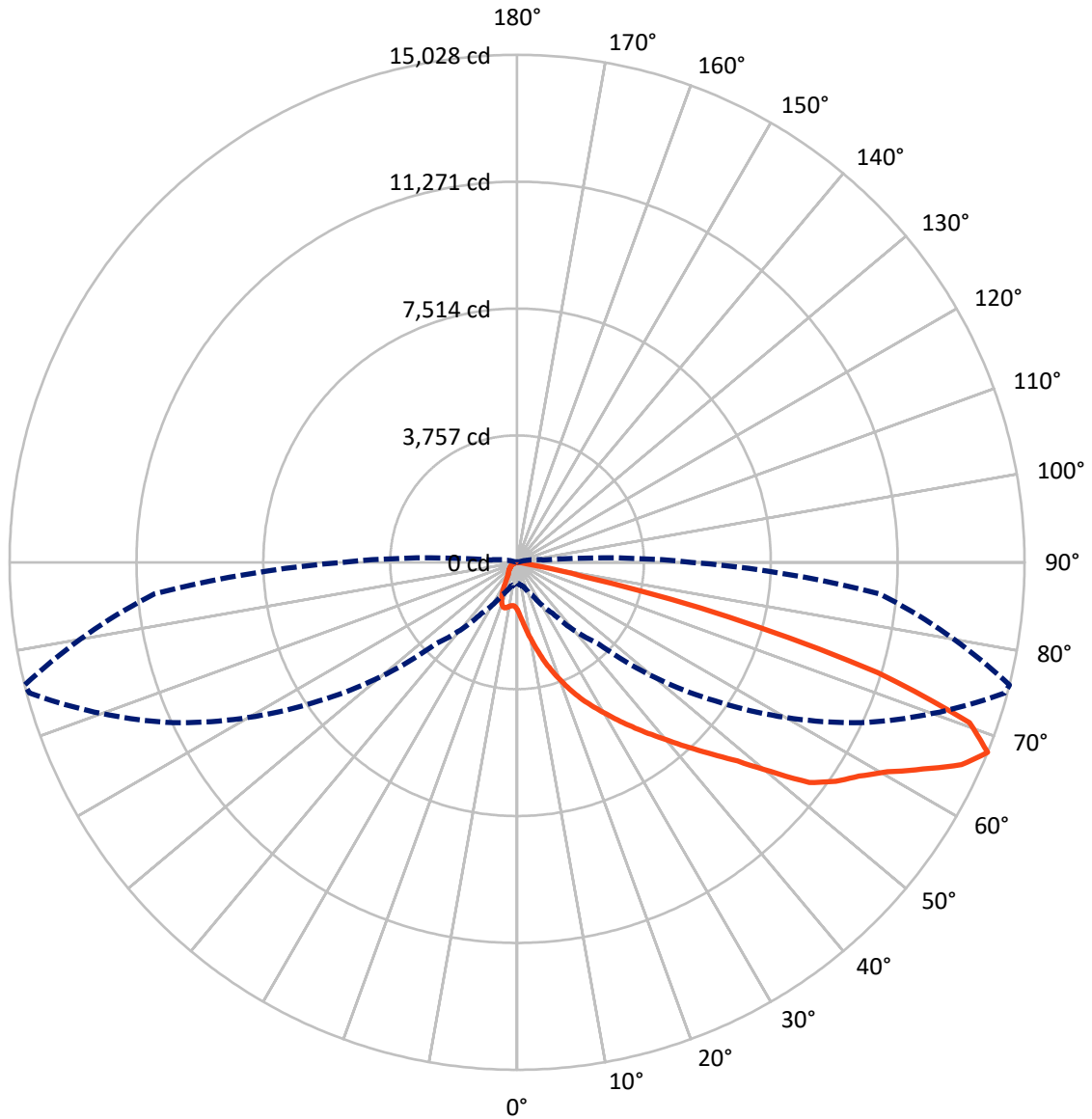
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	821.3	0.0	821.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	15717.7	0.0	15717.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	16539.0	0.0	16539.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.5	1.1
10°-20°	691.6	4.2
20°-30°	1407.1	8.5
30°-40°	2442.3	14.8
40°-50°	3450.7	20.9
50°-60°	3913.3	23.7
60°-70°	3245.7	19.6
70°-80°	1175.7	7.1
80°-90°	38.1	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°	16539.0	100.0
0°-180°	16539.0	100.0

**Coefficient of Utilization**

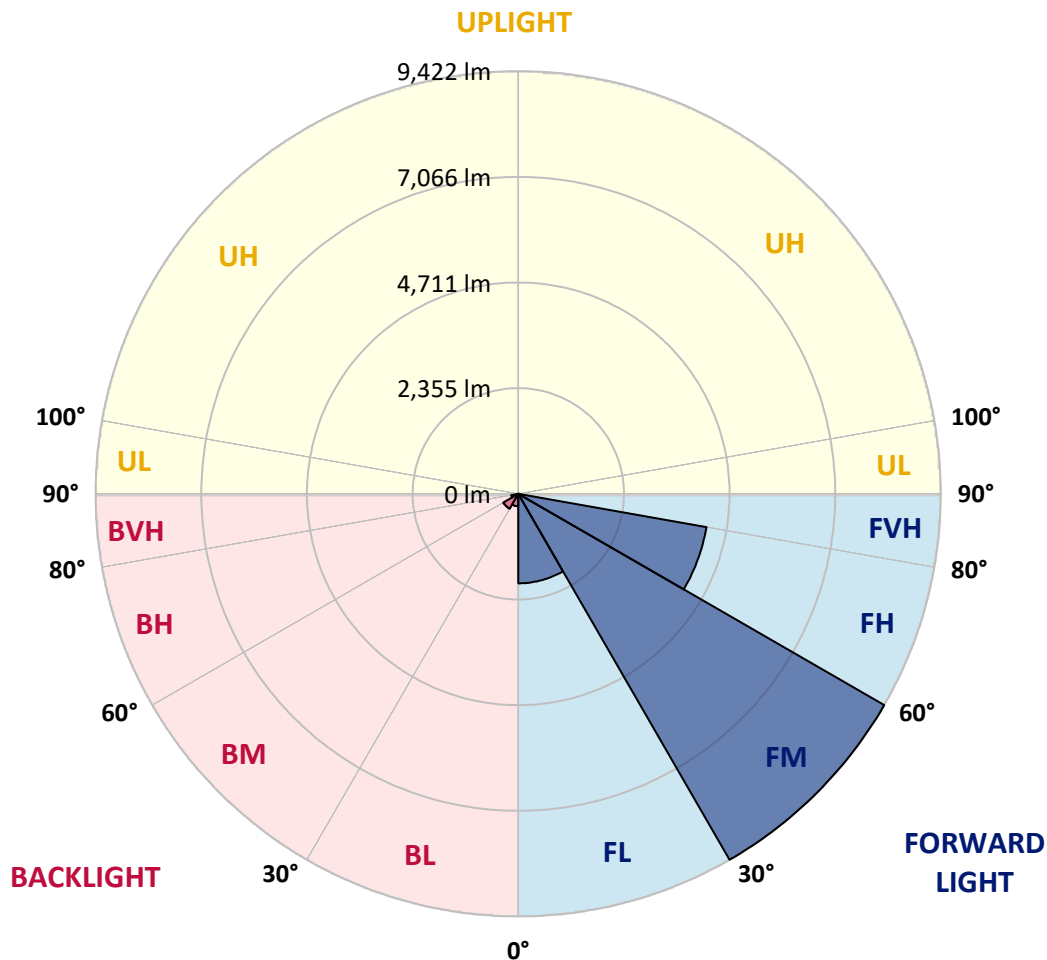


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.2	12.1			
FM (30°-60°)	9421.9	57.0			
FH (60°-80°)	4262.7	25.8			G2/5000
FVH (80°-90°)	36.9	0.2			G1/100
BL (0°-30°)	277.0	1.7	B1/500		
BM (30°-60°)	384.4	2.3	B1/1000		
BH (60°-80°)	158.7	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0
2.5°	2094.3	2047.2	2058.1	2027.7	1972.6	1859.5	1763.2	1671.8	1565.3	1561.7	1474.0
5°	2824.1	2784.2	2779.2	2717.6	2617.6	2425.5	2238.5	2025.5	1787.8	1770.4	1584.2
7.5°	3486.4	3454.6	3443.0	3369.8	3183.5	2996.6	2753.1	2440.0	2068.2	2036.4	1732.7
10°	3995.2	3980.0	3982.9	3930.7	3771.3	3597.3	3277.7	2878.4	2386.4	2337.1	1911.0
12.5°	4380.7	4384.3	4410.4	4378.5	4289.4	4160.4	3819.1	3345.9	2738.6	2671.2	2114.6
15°	4664.1	4682.2	4730.0	4769.9	4763.3	4651.7	4338.7	3820.5	3112.5	3037.9	2341.5
17.5°	4847.4	4867.7	4937.3	5025.7	5106.8	5080.8	4840.2	4278.5	3490.8	3404.6	2584.2
20°	5008.3	5032.2	5106.8	5223.5	5375.0	5407.6	5249.6	4722.8	3868.4	3763.3	2835.0
22.5°	5356.9	5356.1	5401.8	5469.9	5614.1	5698.2	5598.2	5135.1	4241.6	4132.1	3090.8
25°	5987.3	5963.4	5947.5	5893.8	5925.7	5977.9	5922.1	5520.6	4617.0	4506.1	3350.2
27.5°	6736.7	6751.1	6622.2	6477.9	6366.3	6312.7	6221.4	5877.9	4977.8	4856.1	3603.8
30°	7527.3	7531.6	7379.4	7195.4	6949.7	6746.1	6588.1	6219.2	5348.9	5216.3	3850.2
32.5°	8240.4	8212.1	8061.4	7810.6	7500.5	7271.5	6943.2	6600.4	5741.7	5613.4	4124.2
35°	8805.6	8772.3	8588.9	8360.7	8038.9	7808.5	7413.5	6980.9	6154.7	6029.4	4398.8
37.5°	9218.7	9179.6	8991.1	8756.3	8478.8	8344.7	7959.2	7394.7	6605.5	6470.7	4688.0
40°	9362.2	9328.1	9210.0	9038.2	8815.0	8784.6	8538.2	7870.8	7096.1	6952.6	5015.5
42.5°	9276.7	9243.3	9201.3	9143.3	9050.6	9079.6	9084.6	8413.6	7641.1	7499.7	5377.1
45°	8937.5	8907.8	8951.3	9036.1	9151.3	9294.8	9583.2	8996.9	8249.8	8099.1	5795.3
47.5°	8438.2	8416.5	8536.8	8748.4	9085.4	9481.0	10039.0	9610.0	8933.2	8793.3	6317.1
50°	7728.0	7724.4	7965.0	8351.2	8869.4	9570.9	10510.1	10307.2	9882.5	9735.4	7042.5
52.5°	6622.2	6629.4	7102.6	7720.8	8490.4	9510.0	10813.0	11202.9	10986.9	10834.0	7670.8
55°	5569.2	5612.7	5948.2	6839.6	7909.2	9283.9	10917.3	11621.0	11596.4	11451.4	8020.1
57.5°	4538.0	4617.0	4940.2	5772.8	7060.6	8762.9	10860.1	11802.2	12050.0	11939.2	8481.0
60°	3420.5	3456.7	3829.2	4607.5	5971.4	7812.1	10444.9	11900.7	12670.4	12593.5	9149.8
62.5°	2176.2	2266.8	2597.3	3348.0	4649.6	6491.7	9744.8	11899.3	13446.5	13488.5	10012.9
65°	1146.4	1252.3	1427.6	2074.8	3195.1	5017.0	8691.8	11787.7	14398.7	14457.4	10687.6
67.5°	618.2	648.6	741.4	1076.9	1853.0	3398.8	7144.6	11236.9	14950.2	15027.8	10781.8
70°	452.2	468.9	503.7	595.7	932.7	1974.0	5213.4	9988.3	14239.3	14210.3	9579.6
72.5°	347.1	373.2	399.3	436.3	536.3	1053.7	3245.9	7821.5	11361.6	11170.3	7160.6
75°	273.9	278.3	315.2	348.6	402.2	600.0	1441.4	4555.4	6934.5	6481.6	3713.3
77.5°	218.9	221.8	243.5	272.5	323.2	394.2	446.4	1792.1	2213.9	1975.5	805.8
80°	129.7	137.0	181.2	210.2	268.1	248.6	163.1	389.2	345.7	313.1	135.5
82.5°	72.5	78.3	102.2	166.0	187.0	118.8	81.2	105.1	81.2	79.0	38.4
85°	0.0	3.6	65.9	102.9	76.1	26.1	34.1	34.8	23.9	22.5	15.2
87.5°	0.0	0.0	20.3	19.6	2.9	4.3	8.0	11.6	9.4	9.4	8.0
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°	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0	1403.0
2.5°	1430.5	1391.4	1317.5	1245.0	1184.1	1134.1	1089.2	1071.1	1056.6	1054.4	1042.8
5°	1494.3	1415.3	1274.0	1158.0	1080.5	1025.4	978.3	949.3	926.9	918.2	910.2
7.5°	1590.7	1471.1	1268.2	1134.9	1042.1	949.3	862.4	768.2	709.5	687.0	674.0
10°	1708.1	1545.0	1289.9	1128.3	966.0	770.3	626.1	506.6	458.0	442.1	437.7
12.5°	1845.0	1637.1	1327.6	1087.7	803.7	547.1	431.9	391.3	380.5	375.4	375.4
15°	2002.3	1737.8	1354.4	970.4	594.2	413.8	373.9	355.1	343.5	337.0	337.7
17.5°	2163.2	1836.3	1341.4	800.0	438.4	368.1	338.4	318.1	302.2	295.7	294.2
20°	2325.5	1927.7	1268.9	595.7	371.0	334.1	300.7	278.3	262.3	255.8	254.4
22.5°	2493.6	2005.2	1141.4	437.0	333.4	296.4	263.8	241.3	226.1	220.3	217.4
25°	2657.4	2068.2	963.1	353.6	297.8	260.9	229.7	208.7	194.9	189.1	188.4
27.5°	2810.3	2108.1	756.6	312.3	266.7	229.0	200.7	181.9	170.3	166.0	165.2
30°	2948.0	2111.7	559.5	281.9	239.1	201.5	175.4	158.7	148.6	144.2	142.8
32.5°	3087.1	2081.3	407.3	254.4	213.8	177.5	152.2	139.1	131.9	128.3	128.3
35°	3218.3	2011.0	317.4	230.4	189.1	154.4	134.1	124.6	120.3	116.7	116.7
37.5°	3346.6	1910.3	269.6	209.4	166.0	134.8	118.1	112.3	108.7	105.1	105.1
40°	3477.0	1783.4	244.9	189.9	147.1	119.6	105.1	100.0	96.4	93.5	92.8
42.5°	3637.2	1637.1	229.0	171.7	130.4	105.8	92.8	87.0	84.1	81.2	79.7
45°	3822.7	1511.0	216.0	153.6	116.7	94.2	80.4	74.6	70.3	66.7	65.9
47.5°	4090.1	1419.7	198.6	134.1	103.6	81.9	69.6	63.0	56.5	52.9	52.2
50°	4431.4	1344.3	176.1	116.7	90.6	69.6	58.0	50.0	44.2	40.6	40.6
52.5°	4601.0	1245.7	155.8	101.5	76.1	58.7	47.1	37.7	34.8	31.2	31.2
55°	4669.1	1170.4	135.5	86.2	63.0	48.6	37.0	29.0	26.8	24.6	23.9
57.5°	4860.4	1148.6	118.1	73.2	52.2	38.4	28.3	21.7	20.3	17.4	17.4
60°	5168.4	1159.5	102.2	62.3	42.0	29.7	21.0	16.7	15.2	12.3	12.3
62.5°	5501.1	1145.7	86.2	53.6	32.6	21.7	14.5	12.3	12.3	7.2	6.5
65°	5564.8	1020.4	73.9	44.2	25.4	15.9	9.4	8.0	10.9	1.4	0.0
67.5°	5164.8	791.4	63.8	34.1	18.8	12.3	7.2	3.6	9.4	0.0	0.0
70°	4130.0	502.9	51.5	24.6	14.5	10.1	5.8	1.4	7.2	0.0	0.0
72.5°	2920.5	292.0	40.6	17.4	12.3	8.0	4.3	0.0	4.3	0.0	0.0
75°	1476.9	155.8	25.4	13.0	9.4	5.8	2.9	0.0	0.7	0.0	0.0
77.5°	319.6	72.5	15.9	9.4	6.5	3.6	1.4	0.0	0.0	0.0	0.0
80°	69.6	31.9	10.1	5.8	3.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	16.7	5.1	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	8.7	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	0.7	0.7	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)