

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: P321400

Luminaire Tested: **GLEON-SA6B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321400
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-SA6B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 20280 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

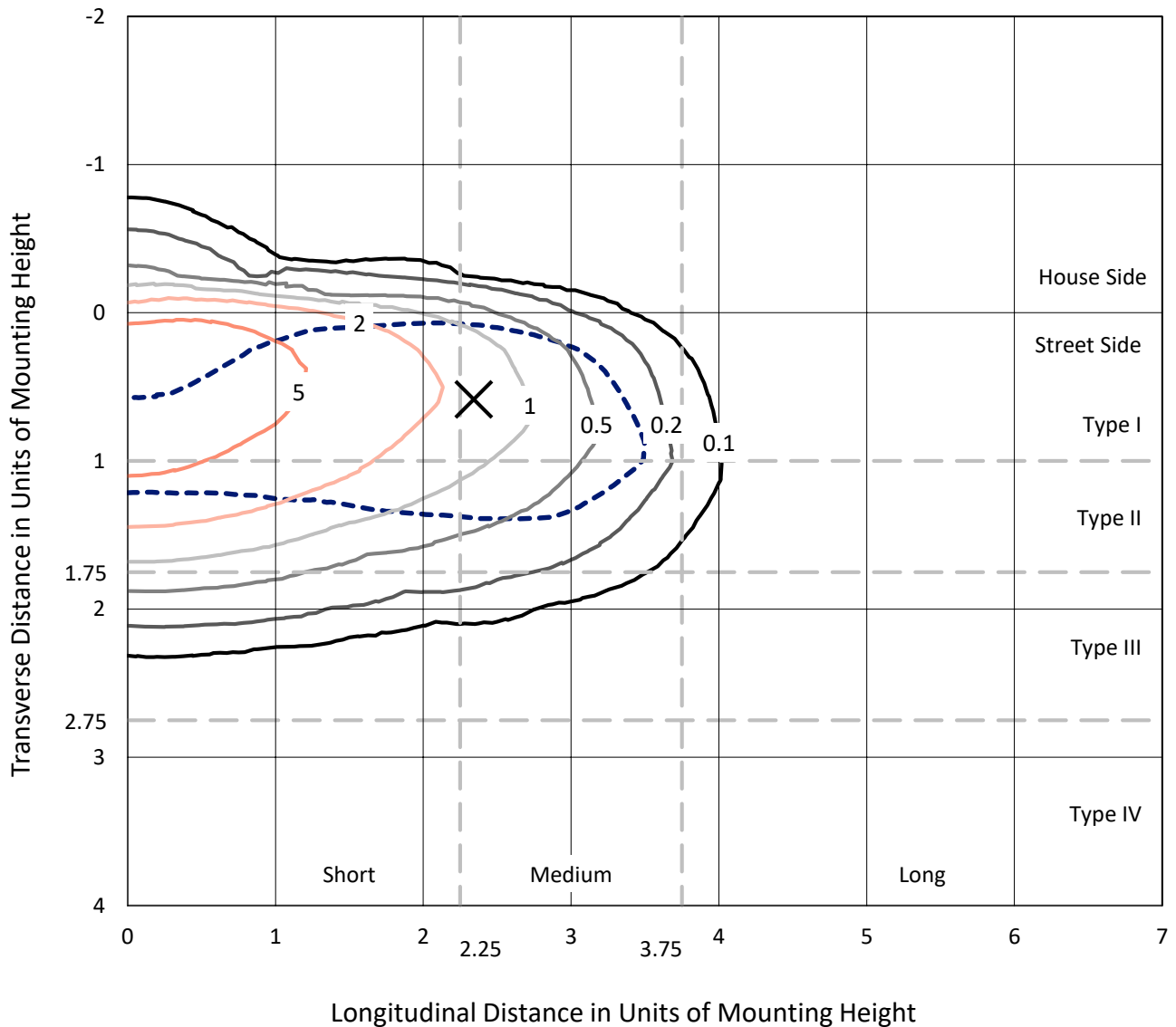
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

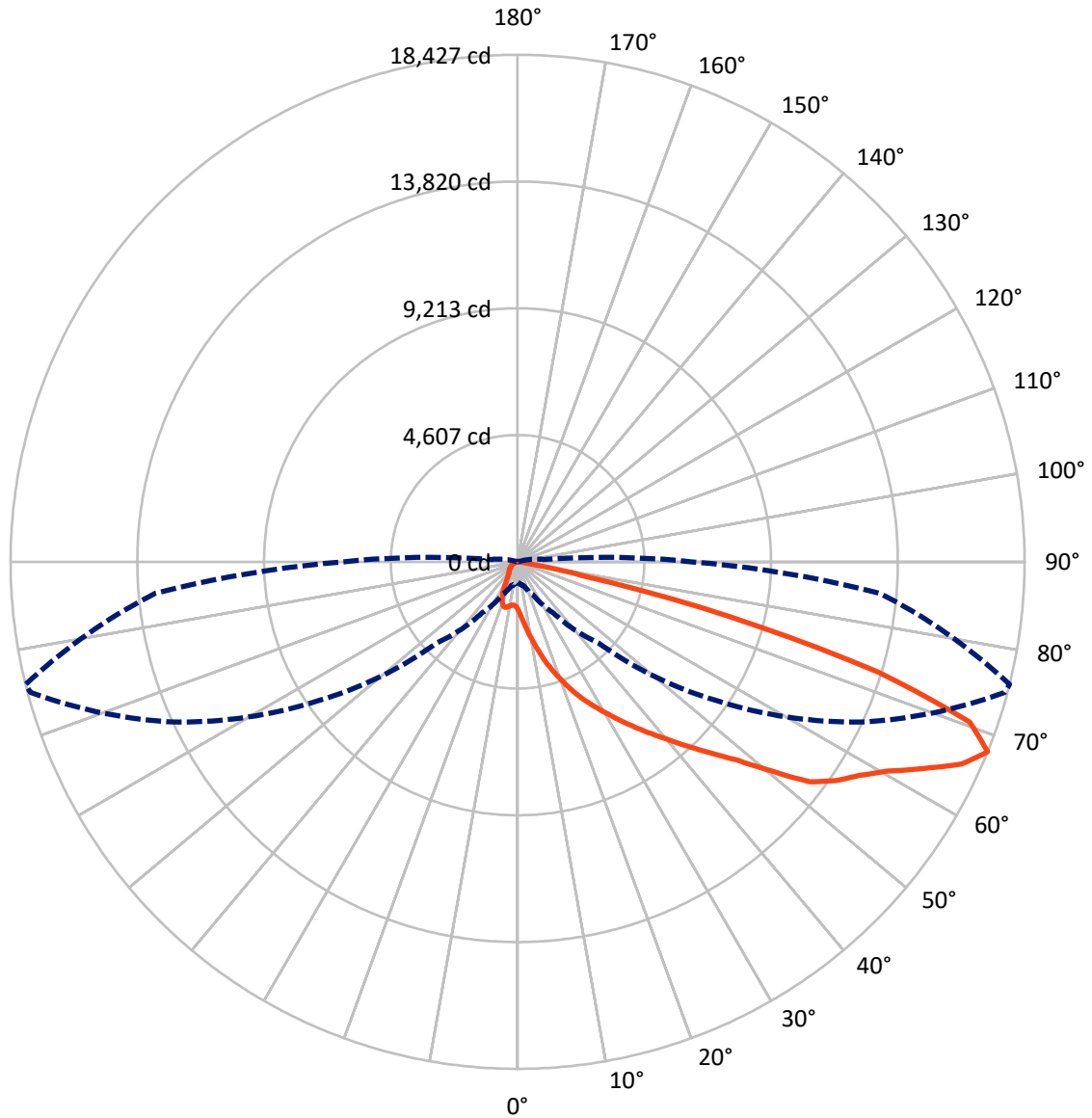
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	1007.1	0.0	1007.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	19273.0	0.0	19273.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	20280.0	0.0	20280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	1.1
10°-20°	848.0	4.2
20°-30°	1725.4	8.5
30°-40°	2994.8	14.8
40°-50°	4231.2	20.9
50°-60°	4798.4	23.7
60°-70°	3979.8	19.6
70°-80°	1441.6	7.1
80°-90°	46.8	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°	20280.0	100.0
0°-180°	20280.0	100.0

Coefficient of Utilization

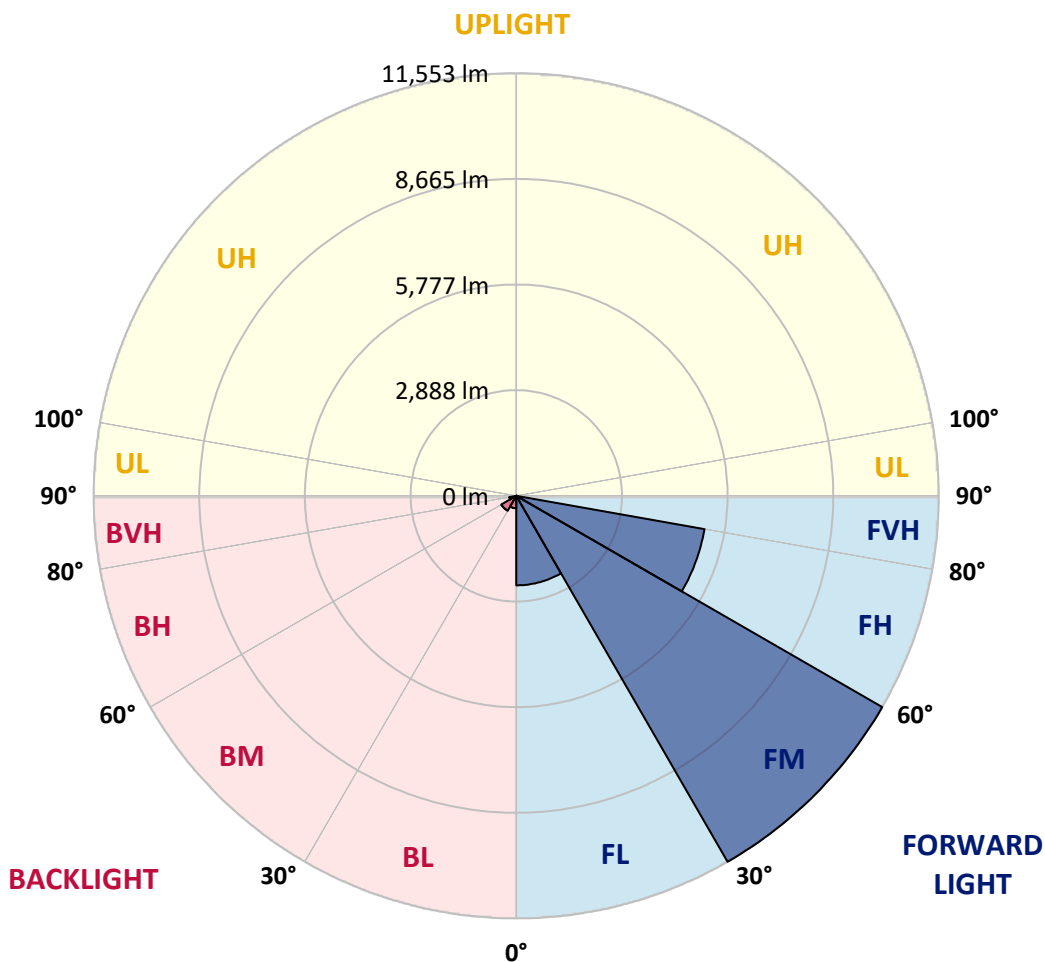


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.7	12.1			
FM (30°-60°)	11553.1	57.0			
FH (60°-80°)	5226.8	25.8			G3/7500
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	339.6	1.7	B1/500		
BM (30°-60°)	471.3	2.3	B1/1000		
BH (60°-80°)	194.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	2568.1	2510.3	2523.6	2486.3	2418.8	2280.1	2162.0	2050.0	1919.4	1914.9	1807.4
5°	3462.9	3414.0	3407.8	3332.3	3209.6	2974.1	2744.9	2483.6	2192.2	2170.9	1942.5
7.5°	4275.1	4236.0	4221.7	4132.0	3903.6	3674.4	3375.8	2991.9	2536.1	2497.0	2124.6
10°	4898.9	4880.2	4883.8	4819.8	4624.3	4411.0	4019.1	3529.5	2926.2	2865.7	2343.2
12.5°	5371.6	5376.0	5408.0	5368.9	5259.6	5101.5	4682.9	4102.7	3358.0	3275.4	2592.9
15°	5719.0	5741.3	5799.9	5848.8	5840.8	5703.9	5320.1	4684.7	3816.5	3725.0	2871.1
17.5°	5943.9	5968.7	6054.0	6162.4	6262.0	6230.0	5935.0	5246.3	4280.4	4174.6	3168.8
20°	6141.1	6170.4	6262.0	6405.0	6590.8	6630.7	6437.0	5791.0	4743.4	4614.5	3476.2
22.5°	6568.5	6567.6	6623.6	6707.2	6884.0	6987.1	6864.4	6296.6	5201.0	5066.8	3789.9
25°	7341.6	7312.3	7292.7	7227.0	7266.1	7330.1	7261.6	6769.4	5661.3	5525.3	4108.0
27.5°	8260.4	8278.2	8120.0	7943.2	7806.4	7740.6	7628.6	7207.4	6103.8	5954.5	4419.0
30°	9229.9	9235.2	9048.6	8822.9	8521.7	8272.0	8078.3	7626.0	6558.8	6396.1	4721.1
32.5°	10104.3	10069.6	9884.8	9577.3	9197.0	8916.2	8513.7	8093.4	7040.4	6883.1	5057.0
35°	10797.4	10756.5	10531.7	10251.8	9857.2	9574.7	9090.4	8559.9	7546.9	7393.2	5393.8
37.5°	11303.9	11255.9	11024.9	10737.0	10396.6	10232.2	9759.5	9067.3	8099.6	7934.3	5748.4
40°	11479.8	11438.1	11293.2	11082.6	10808.9	10771.6	10469.5	9651.1	8701.2	8525.2	6150.0
42.5°	11375.0	11334.1	11282.6	11211.5	11097.7	11133.3	11139.5	10316.7	9369.4	9196.1	6593.4
45°	10959.1	10922.7	10976.0	11080.0	11221.3	11397.2	11750.9	11032.0	10115.8	9931.0	7106.1
47.5°	10346.9	10320.2	10467.7	10727.2	11140.4	11625.6	12309.8	11783.7	10953.8	10782.3	7745.9
50°	9476.0	9471.6	9766.6	10240.2	10875.6	11735.8	12887.4	12638.6	12117.9	11937.5	8635.4
52.5°	8120.0	8128.9	8709.2	9467.2	10410.8	11661.1	13258.8	13736.9	13472.1	13284.6	9405.8
55°	6828.9	6882.2	7293.6	8386.6	9698.2	11383.9	13386.8	14249.6	14219.4	14041.7	9834.1
57.5°	5564.4	5661.3	6057.6	7078.6	8657.6	10745.0	13316.6	14471.8	14775.7	14639.7	10399.3
60°	4194.2	4238.6	4695.4	5649.7	7322.1	9579.1	12807.4	14592.6	15536.3	15442.1	11219.5
62.5°	2668.5	2779.5	3184.7	4105.3	5701.3	7960.1	11949.0	14590.8	16488.0	16539.5	12277.8
65°	1405.8	1535.5	1750.5	2544.1	3917.8	6151.8	10657.9	14454.0	17655.6	17727.6	13105.1
67.5°	758.0	795.3	909.0	1320.5	2272.2	4167.5	8760.7	13778.6	18331.8	18426.9	13220.6
70°	554.5	574.9	617.6	730.4	1143.6	2420.5	6392.6	12247.6	17460.1	17424.6	11746.4
72.5°	425.6	457.6	489.6	534.9	657.6	1292.0	3980.0	9590.7	13931.5	13696.9	8780.3
75°	335.9	341.2	386.5	427.4	493.2	735.8	1767.4	5585.7	8503.0	7947.6	4553.2
77.5°	268.4	271.9	298.6	334.1	396.3	483.4	547.4	2197.5	2714.7	2422.3	988.1
80°	159.1	167.9	222.2	257.7	328.8	304.8	199.9	477.2	423.9	383.9	166.2
82.5°	88.9	96.0	125.3	203.5	229.3	145.7	99.5	128.8	99.5	96.9	47.1
85°	0.0	4.4	80.9	126.2	93.3	32.0	41.8	42.7	29.3	27.5	18.7
87.5°	0.0	0.0	24.9	24.0	3.6	5.3	9.8	14.2	11.6	11.6	9.8
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°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1754.1	1706.1	1615.5	1526.6	1452.0	1390.7	1335.6	1313.4	1295.6	1292.9	1278.7
5°	1832.3	1735.4	1562.2	1420.0	1324.9	1257.4	1199.6	1164.1	1136.5	1125.9	1116.1
7.5°	1950.5	1803.9	1555.1	1391.5	1277.8	1164.1	1057.4	941.9	869.9	842.4	826.4
10°	2094.4	1894.5	1581.7	1383.6	1184.5	944.6	767.8	621.1	561.6	542.0	536.7
12.5°	2262.4	2007.3	1627.9	1333.8	985.5	670.9	529.6	479.8	466.5	460.3	460.3
15°	2455.2	2130.9	1660.8	1189.8	728.7	507.4	458.5	435.4	421.2	413.2	414.1
17.5°	2652.5	2251.7	1644.8	981.0	537.6	451.4	415.0	390.1	370.5	362.5	360.8
20°	2851.5	2363.7	1555.9	730.4	455.0	409.6	368.8	341.2	321.7	313.7	311.9
22.5°	3057.7	2458.8	1399.5	535.8	408.8	363.4	323.5	295.9	277.2	270.1	266.6
25°	3258.5	2536.1	1181.0	433.6	365.2	319.9	281.7	255.9	239.0	231.9	231.0
27.5°	3446.0	2584.9	927.7	383.0	327.0	280.8	246.1	223.0	208.8	203.5	202.6
30°	3614.8	2589.4	686.0	345.7	293.2	247.0	215.0	194.6	182.2	176.8	175.1
32.5°	3785.4	2552.1	499.4	311.9	262.1	217.7	186.6	170.6	161.7	157.3	157.3
35°	3946.3	2465.9	389.2	282.6	231.9	189.3	164.4	152.8	147.5	143.1	143.1
37.5°	4103.6	2342.4	330.6	256.8	203.5	165.3	144.8	137.7	133.3	128.8	128.8
40°	4263.5	2186.8	300.3	232.8	180.4	146.6	128.8	122.6	118.2	114.6	113.7
42.5°	4459.9	2007.3	280.8	210.6	159.9	129.7	113.7	106.6	103.1	99.5	97.7
45°	4687.4	1852.7	264.8	188.4	143.1	115.5	98.6	91.5	86.2	81.8	80.9
47.5°	5015.3	1740.8	243.5	164.4	127.1	100.4	85.3	77.3	69.3	64.9	64.0
50°	5433.8	1648.4	215.9	143.1	111.1	85.3	71.1	61.3	54.2	49.8	49.8
52.5°	5641.7	1527.5	191.0	124.4	93.3	72.0	57.8	46.2	42.7	38.2	38.2
55°	5725.3	1435.1	166.2	105.7	77.3	59.5	45.3	35.5	32.9	30.2	29.3
57.5°	5959.8	1408.4	144.8	89.7	64.0	47.1	34.7	26.7	24.9	21.3	21.3
60°	6337.5	1421.8	125.3	76.4	51.5	36.4	25.8	20.4	18.7	15.1	15.1
62.5°	6745.4	1404.9	105.7	65.8	40.0	26.7	17.8	15.1	15.1	8.9	8.0
65°	6823.6	1251.2	90.6	54.2	31.1	19.5	11.6	9.8	13.3	1.8	0.0
67.5°	6333.1	970.4	78.2	41.8	23.1	15.1	8.9	4.4	11.6	0.0	0.0
70°	5064.1	616.7	63.1	30.2	17.8	12.4	7.1	1.8	8.9	0.0	0.0
72.5°	3581.1	358.1	49.8	21.3	15.1	9.8	5.3	0.0	5.3	0.0	0.0
75°	1811.0	191.0	31.1	16.0	11.6	7.1	3.6	0.0	0.9	0.0	0.0
77.5°	391.9	88.9	19.5	11.6	8.0	4.4	1.8	0.0	0.0	0.0	0.0
80°	85.3	39.1	12.4	7.1	4.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	31.1	20.4	6.2	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	10.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.6	0.9	0.9	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)