

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: P452442

Luminaire Tested: **GALN-SA3B-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 9997 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

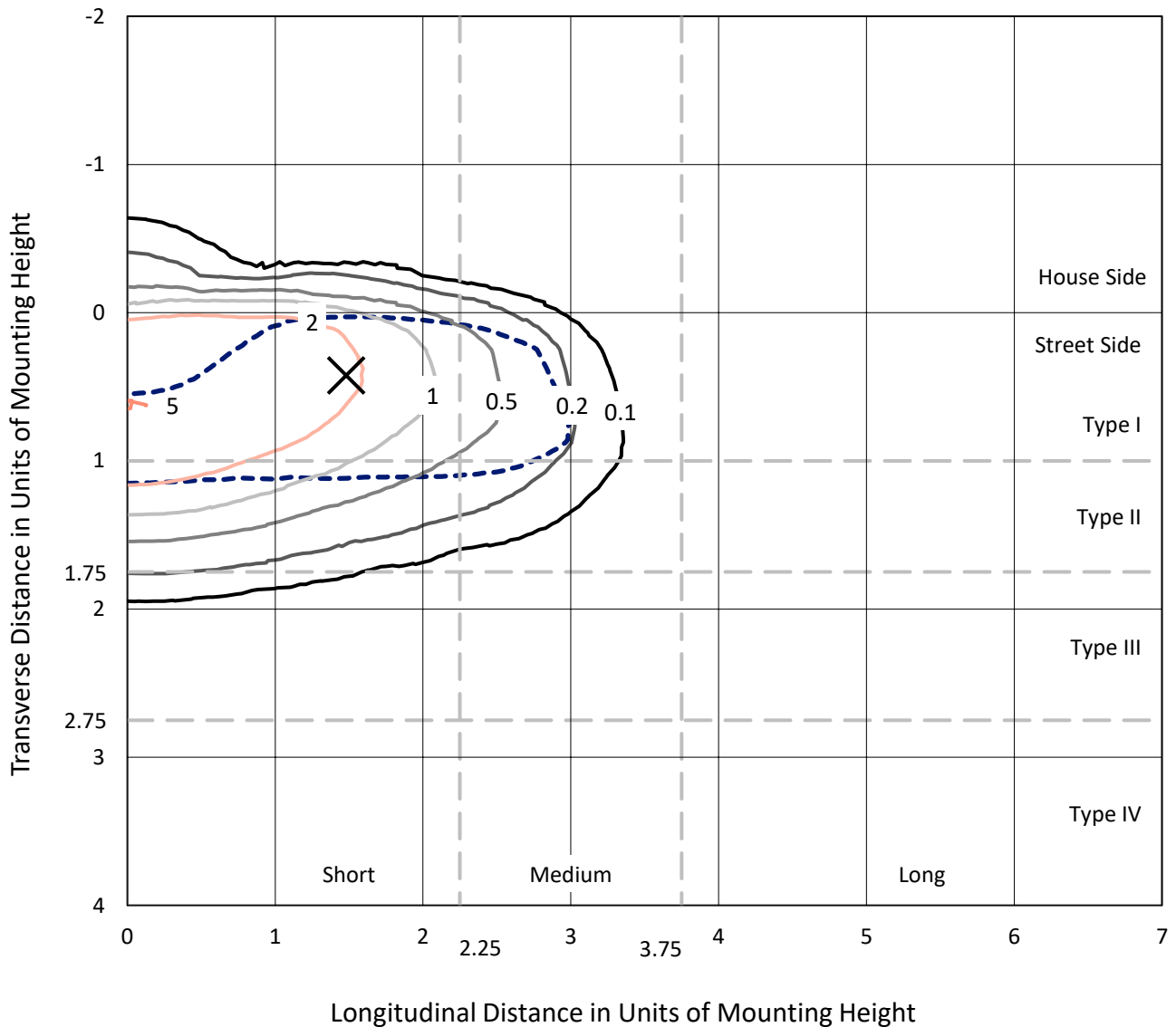
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

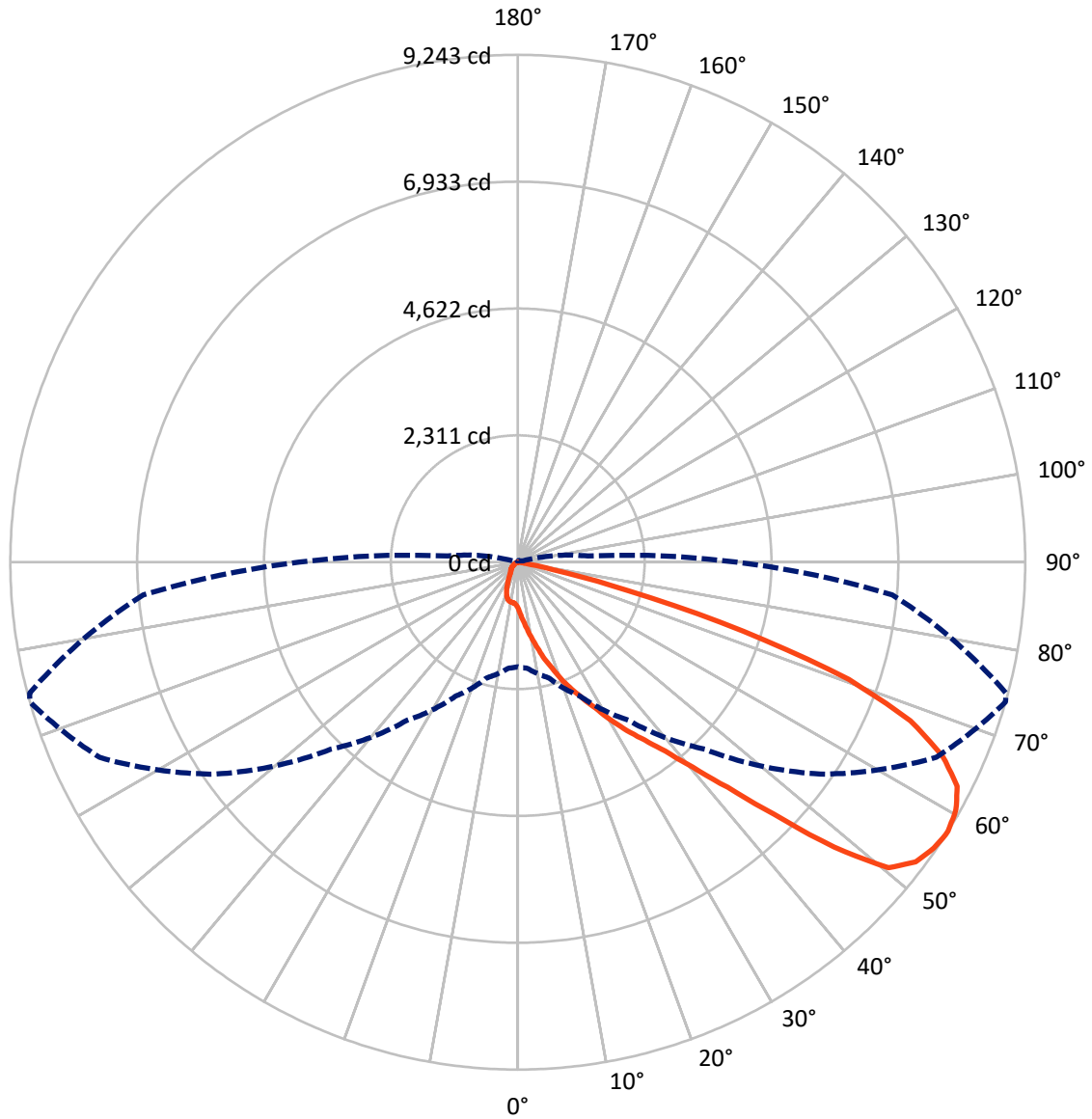
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	576.6	0.0	576.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9420.4	0.0	9420.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	9997.0	0.0	9997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.0
10°-20°	398.3	4.0
20°-30°	852.3	8.5
30°-40°	1566.5	15.7
40°-50°	2401.5	24.0
50°-60°	2540.5	25.4
60°-70°	1659.0	16.6
70°-80°	453.3	4.5
80°-90°	24.4	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°	9997.0	100.0
0°-180°	9997.0	100.0

Coefficient of Utilization



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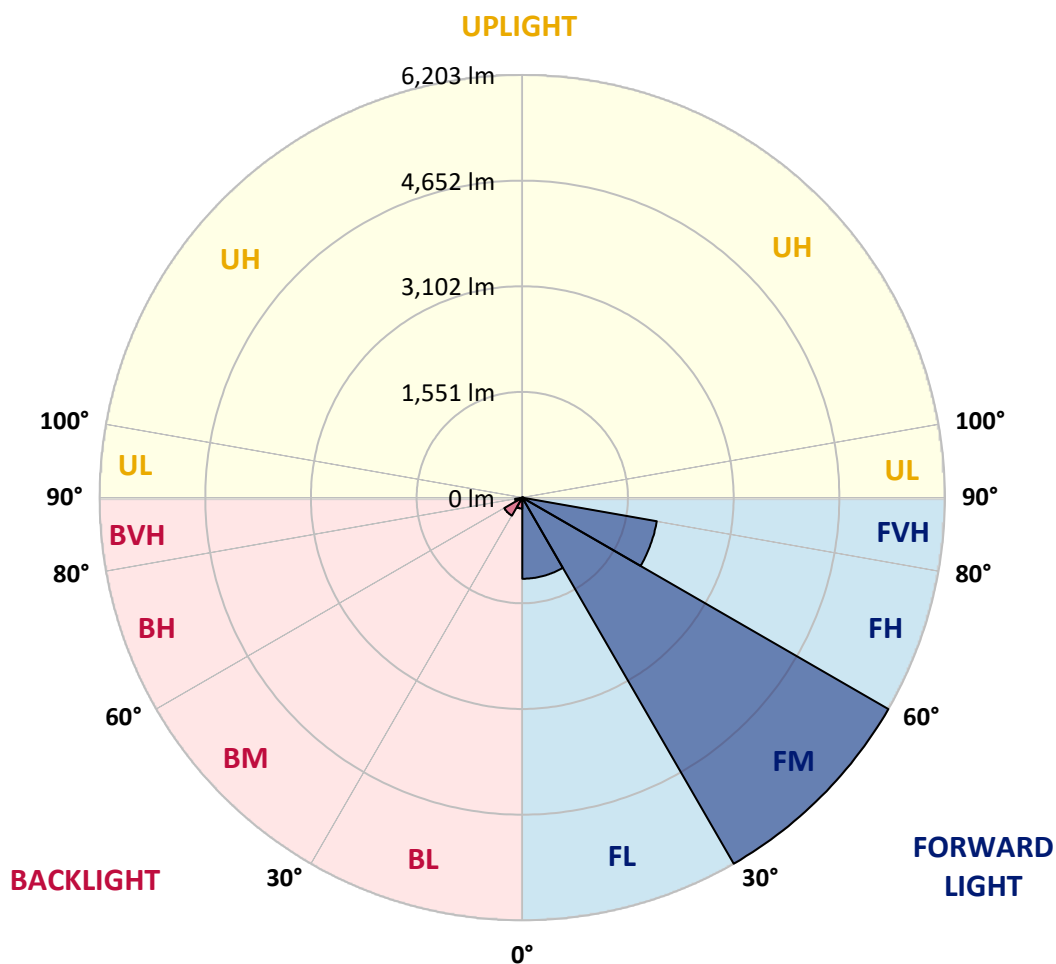
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.6	11.9			
FM (30°-60°)	6203.3	62.1			
FH (60°-80°)	2004.1	20.0			G2/5000
FVH (80°-90°)	22.4	0.2			G1/100
BL (0°-30°)	161.1	1.6	B1/500		
BM (30°-60°)	305.3	3.1	B1/1000		
BH (60°-80°)	108.3	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	1225.1	1214.1	1192.0	1184.4	1152.0	1101.6	1057.4	998.1	951.1	946.3	889.7
5°	1640.7	1615.8	1605.4	1555.8	1477.8	1404.6	1279.0	1183.7	1074.0	1065.7	951.8
7.5°	2041.0	2006.5	1996.1	1949.2	1858.1	1742.8	1579.9	1406.7	1232.7	1216.9	1035.3
10°	2330.9	2335.7	2317.1	2286.0	2212.2	2094.8	1894.0	1657.2	1409.4	1389.4	1129.2
12.5°	2538.6	2537.9	2541.4	2540.7	2501.4	2412.3	2201.1	1928.5	1604.1	1564.7	1236.9
15°	2673.9	2676.0	2686.3	2722.2	2726.4	2671.1	2495.1	2188.0	1829.8	1780.8	1353.5
17.5°	2810.6	2825.1	2841.6	2875.5	2905.8	2883.7	2759.5	2458.6	2034.1	1997.5	1478.4
20°	3036.3	3056.3	3046.6	3067.3	3083.2	3085.3	2989.3	2708.4	2281.9	2220.4	1621.3
22.5°	3397.3	3396.6	3371.7	3334.4	3303.4	3302.0	3215.0	2965.2	2506.9	2447.5	1764.9
25°	3853.5	3855.6	3807.2	3701.0	3623.7	3529.1	3429.0	3190.2	2747.8	2674.6	1916.0
27.5°	4376.7	4363.6	4290.4	4144.1	3990.8	3829.3	3685.1	3451.8	3003.1	2942.4	2089.3
30°	4846.7	4841.9	4756.3	4577.5	4376.0	4213.8	4004.7	3779.6	3333.8	3259.2	2283.2
32.5°	5284.3	5291.2	5172.5	4987.5	4792.9	4605.8	4385.0	4093.0	3658.2	3552.6	2494.5
35°	5626.0	5632.9	5510.0	5356.1	5155.9	5000.6	4790.1	4427.1	3978.4	3889.4	2737.4
37.5°	5808.2	5817.2	5746.1	5630.1	5505.2	5427.2	5231.2	4857.1	4367.7	4313.9	3024.5
40°	5842.7	5853.1	5822.0	5790.9	5784.0	5839.9	5782.7	5363.7	4907.5	4823.3	3452.5
42.5°	5739.2	5753.0	5766.8	5835.8	5976.6	6181.6	6381.1	6051.2	5602.5	5489.3	3975.7
45°	5467.2	5465.8	5520.4	5699.1	6014.6	6452.2	7006.4	6911.9	6549.5	6414.9	4714.9
47.5°	5002.0	4995.1	5113.1	5367.8	5859.3	6501.9	7516.5	7956.8	7758.1	7633.8	5509.3
50°	4293.2	4327.0	4512.7	4868.1	5473.4	6351.4	7673.9	8642.2	8749.9	8618.1	6151.2
52.5°	3462.8	3461.4	3752.7	4235.2	4901.9	6020.1	7564.1	8766.5	9072.2	8971.5	6467.4
55°	2562.8	2580.7	2883.7	3370.3	4160.0	5415.5	7205.9	8638.8	9195.1	9124.0	6675.8
57°	1906.4	1938.1	2181.1	2696.0	3513.9	4817.0	6728.9	8410.3	9243.4	9204.8	6849.0
57.5°	1779.4	1780.8	2017.5	2485.5	3324.8	4587.2	6592.3	8315.1	9242.0	9220.6	6877.3
60°	1095.4	1129.9	1293.5	1680.0	2433.7	3580.2	5676.4	7767.7	9170.3	9201.3	6998.1
62.5°	655.7	670.2	776.5	1012.6	1568.9	2613.2	4645.2	7067.2	8983.2	9077.8	6989.8
65°	421.7	425.2	473.5	612.9	980.8	1766.3	3579.5	6141.6	8499.4	8673.3	6716.5
67.5°	325.8	331.3	350.6	402.4	568.7	1100.2	2531.7	5153.9	7716.6	7941.0	6053.9
70°	289.2	292.0	298.9	315.4	376.2	621.2	1575.1	4026.0	6399.0	6462.5	4737.7
72.5°	236.1	243.6	265.0	270.6	298.2	387.9	876.6	2702.2	4299.4	4315.2	2650.4
75°	182.9	184.3	216.0	231.9	251.2	267.1	391.4	1362.5	2065.1	1954.7	1021.5
77.5°	136.7	142.9	157.4	177.4	205.0	191.2	175.3	513.5	641.2	629.5	296.8
80°	87.7	91.1	109.7	133.2	159.4	124.9	98.7	150.5	140.8	144.9	71.1
82.5°	44.2	44.9	70.4	108.4	101.5	62.8	62.1	61.4	52.5	51.8	33.1
85°	4.8	10.4	45.6	62.1	45.6	20.7	29.0	28.3	27.6	28.3	19.3
87.5°	0.7	0.7	7.6	9.0	6.2	6.9	8.3	9.0	11.0	10.4	8.3
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°	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2	837.2
2.5°	862.1	834.5	783.4	734.4	697.8	674.3	644.0	632.9	617.1	615.0	607.4
5°	899.4	846.9	757.9	687.5	630.9	588.1	550.8	519.7	494.9	489.4	492.1
7.5°	952.5	874.5	750.3	654.3	575.6	502.5	443.1	406.5	380.3	370.6	372.0
10°	1012.6	911.1	748.9	619.1	499.0	409.3	344.4	312.0	296.8	291.3	285.1
12.5°	1083.6	953.2	745.4	564.6	414.8	326.5	280.2	260.9	246.4	242.3	242.3
15°	1163.7	998.1	728.9	497.0	336.8	269.9	238.8	223.6	218.8	214.7	214.7
17.5°	1247.2	1042.2	694.4	413.4	279.5	231.2	211.9	202.9	196.0	191.2	191.2
20°	1342.5	1085.7	639.1	339.6	236.1	206.4	191.2	180.8	175.3	171.2	169.8
22.5°	1432.9	1120.9	568.7	278.8	205.7	185.7	171.9	160.8	155.3	153.2	153.2
25°	1526.8	1142.3	483.8	230.5	187.7	168.4	153.2	144.3	139.4	138.0	137.4
27.5°	1617.9	1154.7	409.3	201.5	171.2	152.5	138.0	131.1	126.3	124.9	125.6
30°	1728.3	1156.8	336.8	180.8	156.7	137.4	124.2	118.0	115.3	113.9	113.2
32.5°	1840.1	1154.0	283.0	168.4	142.9	124.2	113.2	108.4	106.3	104.2	104.2
35°	1965.7	1139.6	240.9	156.0	129.8	113.2	103.5	99.4	96.6	94.6	93.9
37.5°	2121.7	1132.0	216.7	142.2	118.0	102.8	93.9	89.7	87.7	84.9	84.2
40°	2367.5	1165.8	209.1	129.8	106.3	93.2	84.9	80.1	77.3	74.5	73.9
42.5°	2673.9	1225.1	196.7	117.3	95.9	84.2	75.9	70.4	65.6	62.1	60.7
45°	3070.8	1303.1	177.4	104.2	87.0	74.5	67.0	60.0	53.8	51.1	50.4
47.5°	3487.0	1378.4	160.1	93.9	77.3	66.3	58.0	50.4	44.9	42.8	42.1
50°	3742.4	1393.6	149.1	82.1	67.6	57.3	49.0	42.1	38.7	36.6	36.6
52.5°	3859.0	1369.4	133.9	71.8	58.7	50.4	42.1	36.6	34.5	33.1	32.4
55°	3940.5	1332.1	113.9	62.1	50.4	42.8	37.3	33.1	30.4	29.0	28.3
57°	3988.1	1281.7	98.7	54.5	43.5	37.3	33.1	29.7	26.9	24.2	24.2
57.5°	3990.2	1262.4	94.6	53.8	41.4	35.9	32.4	29.0	25.5	22.8	22.1
60°	3928.7	1129.9	75.9	45.6	33.1	30.4	26.9	22.8	17.9	15.2	14.5
62.5°	3731.3	961.5	62.8	38.7	26.9	23.5	19.3	17.3	12.4	9.0	9.0
65°	3432.5	779.9	53.8	31.1	22.1	17.3	13.1	12.4	7.6	4.1	3.5
67.5°	3000.4	607.4	45.6	25.5	18.6	12.4	9.0	8.3	4.1	1.4	0.0
70°	2286.0	414.1	38.0	20.7	13.8	9.0	6.2	4.8	2.8	0.7	0.0
72.5°	1317.6	227.8	31.8	15.9	10.4	6.9	4.8	2.8	2.8	0.0	0.0
75°	470.7	98.0	24.2	11.7	8.3	5.5	3.5	1.4	2.1	0.7	0.0
77.5°	149.8	52.5	15.9	9.0	6.9	4.1	2.8	1.4	1.4	0.7	0.0
80°	44.2	27.6	9.7	7.6	4.8	3.5	2.1	0.7	1.4	0.7	0.0
82.5°	24.2	13.8	7.6	5.5	4.8	2.8	2.1	0.7	0.7	0.7	0.0
85°	12.4	8.3	6.2	5.5	4.8	2.8	2.1	0.7	0.0	0.7	0.7
87.5°	6.9	6.2	6.2	5.5	4.8	3.5	2.1	0.7	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)