

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: P452674

Luminaire Tested: **GALN-SA3C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452674
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-SA3C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12352 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

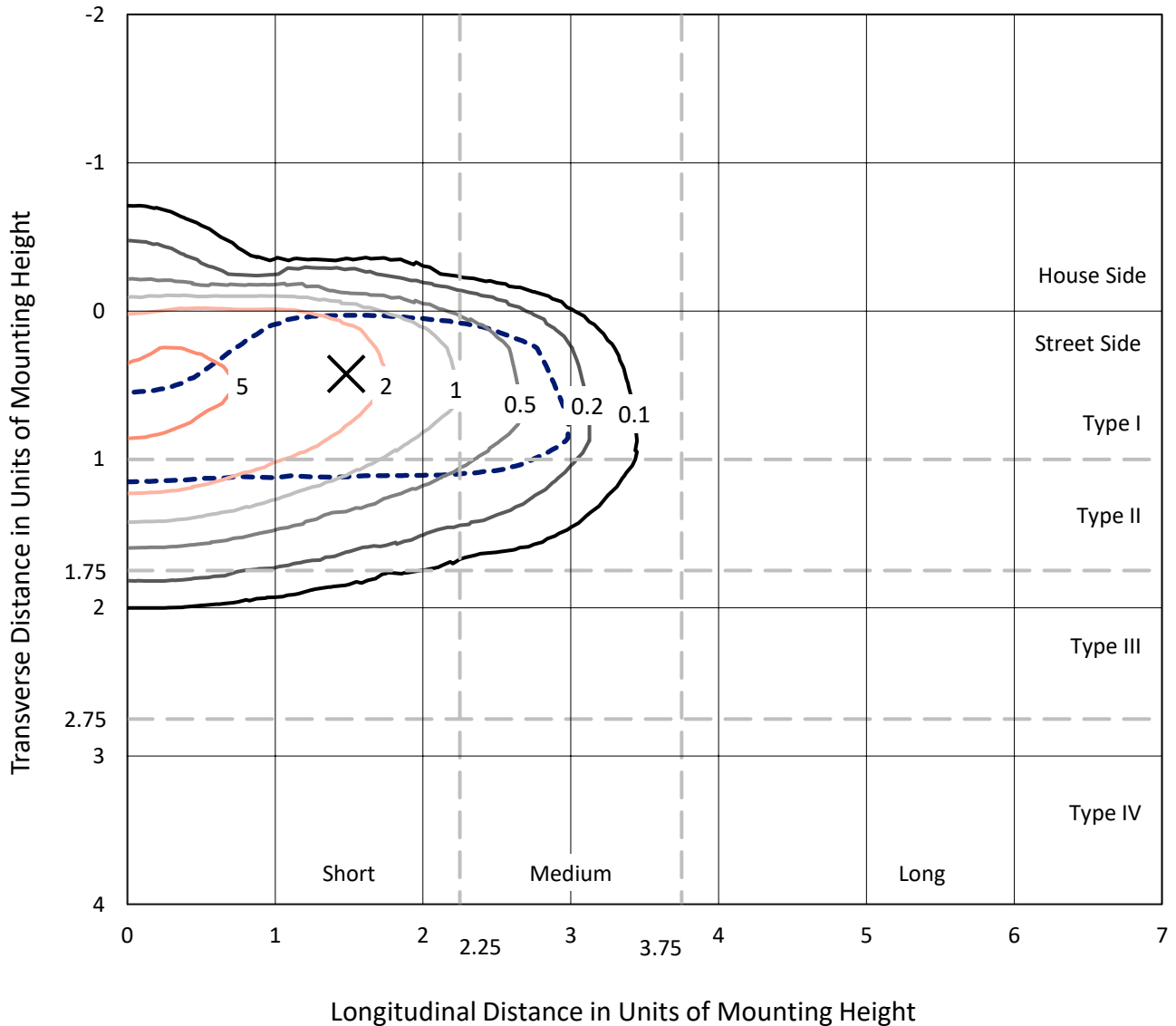
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

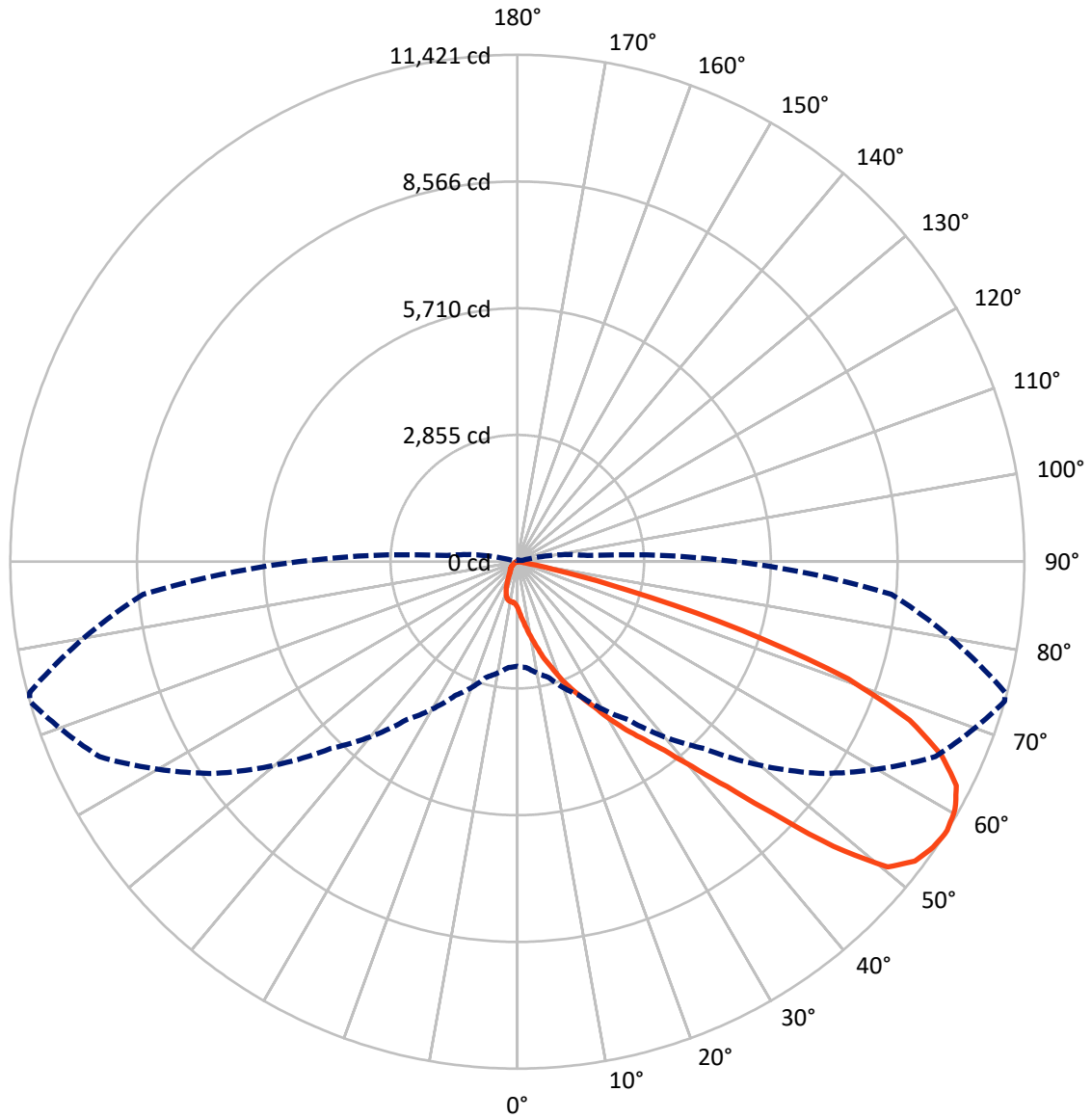
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	712.4	0.0	712.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	11639.6	0.0	11639.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	12352.0	0.0	12352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.0
10°-20°	492.2	4.0
20°-30°	1053.1	8.5
30°-40°	1935.6	15.7
40°-50°	2967.3	24.0
50°-60°	3139.0	25.4
60°-70°	2049.8	16.6
70°-80°	560.1	4.5
80°-90°	30.2	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°	12352.0	100.0
0°-180°	12352.0	100.0

Coefficient of Utilization



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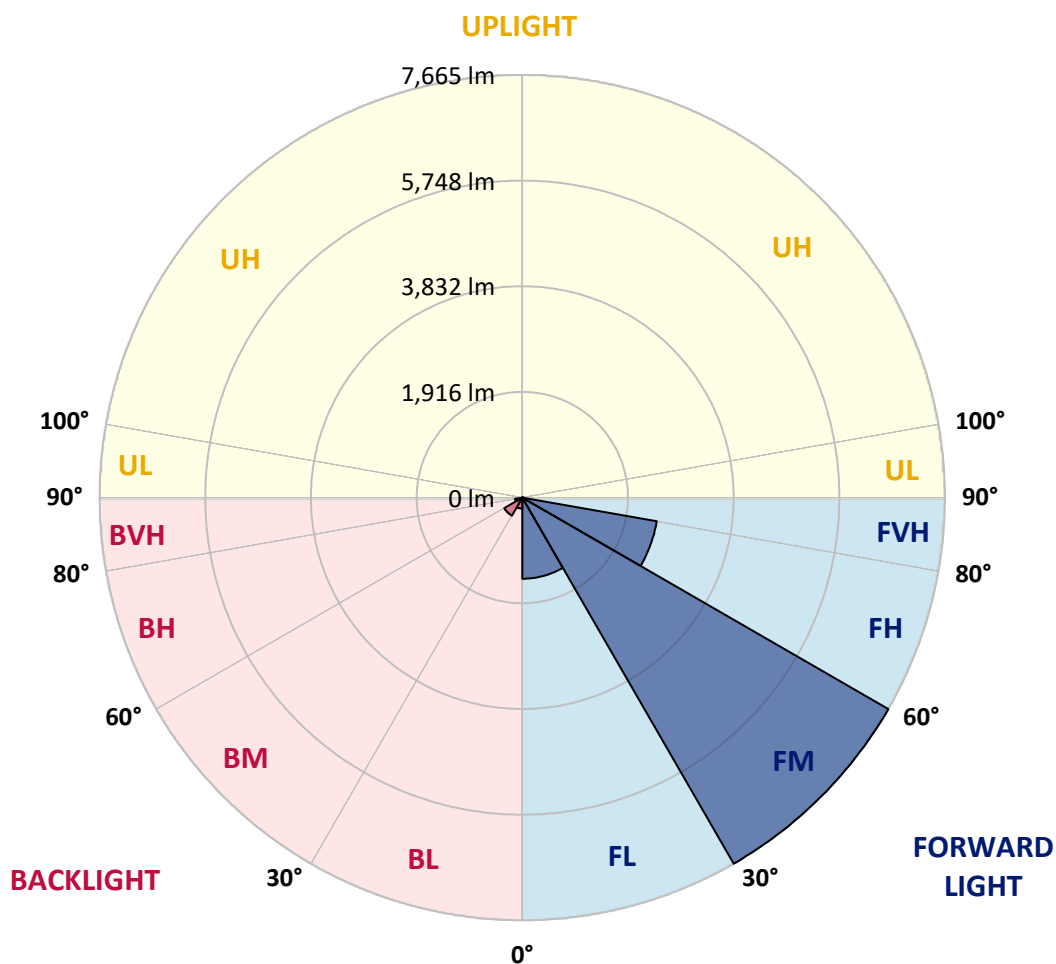
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.1	11.9			
FM (30°-60°)	7664.6	62.1			
FH (60°-80°)	2476.2	20.0			G2/5000
FVH (80°-90°)	27.7	0.2			G1/100
BL (0°-30°)	199.0	1.6	B1/500		
BM (30°-60°)	377.2	3.1	B1/1000		
BH (60°-80°)	133.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1513.7	1500.1	1472.8	1463.4	1423.3	1361.1	1306.5	1233.2	1175.2	1169.2	1099.3
5°	2027.1	1996.4	1983.6	1922.2	1825.9	1735.5	1580.3	1462.6	1327.0	1316.7	1176.0
7.5°	2521.8	2479.1	2466.3	2408.3	2295.8	2153.4	1952.1	1738.0	1523.1	1503.5	1279.2
10°	2880.0	2885.9	2862.9	2824.5	2733.3	2588.3	2340.1	2047.6	1741.4	1716.7	1395.2
12.5°	3136.7	3135.8	3140.1	3139.2	3090.6	2980.6	2719.6	2382.8	1981.9	1933.3	1528.2
15°	3303.8	3306.4	3319.2	3363.5	3368.6	3300.4	3082.9	2703.4	2260.8	2200.3	1672.4
17.5°	3472.7	3490.6	3511.0	3552.8	3590.3	3563.1	3409.6	3037.7	2513.2	2468.0	1826.7
20°	3751.5	3776.3	3764.3	3789.9	3809.5	3812.1	3693.5	3346.4	2819.4	2743.5	2003.3
22.5°	4197.6	4196.7	4166.0	4119.9	4081.6	4079.9	3972.4	3663.7	3097.4	3024.1	2180.6
25°	4761.3	4763.8	4704.1	4572.8	4477.3	4360.4	4236.8	3941.7	3395.1	3304.7	2367.4
27.5°	5407.7	5391.5	5301.1	5120.3	4931.0	4731.4	4553.2	4264.9	3710.6	3635.5	2581.5
30°	5988.5	5982.5	5876.7	5655.9	5406.8	5206.4	4948.0	4670.0	4119.1	4027.0	2821.1
32.5°	6529.1	6537.7	6391.0	6162.4	5921.9	5690.8	5417.9	5057.2	4519.9	4389.4	3082.1
35°	6951.3	6959.8	6808.0	6617.8	6370.5	6178.6	5918.5	5470.0	4915.6	4805.6	3382.3
37.5°	7176.4	7187.5	7099.7	6956.4	6802.0	6705.7	6463.5	6001.3	5396.6	5330.1	3737.0
40°	7219.1	7231.9	7193.5	7155.1	7146.6	7215.7	7144.9	6627.2	6063.5	5959.5	4265.8
42.5°	7091.2	7108.2	7125.3	7210.5	7384.5	7637.8	7884.3	7476.6	6922.3	6782.4	4912.2
45°	6755.1	6753.4	6820.8	7041.7	7431.4	7972.1	8656.9	8540.1	8092.4	7926.1	5825.6
47.5°	6180.3	6171.8	6317.6	6632.3	7239.5	8033.5	9287.1	9831.2	9585.6	9432.1	6807.2
50°	5304.5	5346.3	5575.7	6014.9	6762.8	7847.6	9481.6	10678.1	10811.1	10648.2	7600.3
52.5°	4278.6	4276.9	4636.8	5232.9	6056.7	7438.2	9346.0	10831.6	11209.4	11084.9	7990.9
55°	3166.5	3188.7	3563.1	4164.3	5139.9	6691.2	8903.4	10673.8	11361.2	11273.4	8248.4
57°	2355.5	2394.7	2694.9	3331.1	4341.7	5951.8	8314.1	10391.5	11420.9	11373.1	8462.5
57.5°	2198.6	2200.3	2492.8	3071.0	4108.0	5667.8	8145.2	10273.9	11419.2	11392.7	8497.4
60°	1353.4	1396.1	1598.2	2075.8	3007.0	4423.5	7013.5	9597.6	11330.5	11368.9	8646.7
62.5°	810.2	828.1	959.4	1251.1	1938.4	3228.8	5739.4	8732.0	11099.4	11216.2	8636.5
65°	521.1	525.3	585.0	757.3	1211.8	2182.4	4422.7	7588.3	10501.6	10716.5	8298.7
67.5°	402.5	409.4	433.2	497.2	702.7	1359.4	3128.1	6368.0	9534.5	9811.6	7480.0
70°	357.3	360.7	369.3	389.7	464.8	767.5	1946.1	4974.5	7906.4	7984.9	5853.7
72.5°	291.7	301.0	327.5	334.3	368.4	479.3	1083.1	3338.8	5312.2	5331.8	3274.8
75°	226.0	227.7	266.9	286.5	310.4	330.0	483.5	1683.5	2551.6	2415.2	1262.2
77.5°	168.9	176.5	194.4	219.2	253.3	236.2	216.6	634.5	792.3	777.8	366.7
80°	108.3	112.6	135.6	164.6	197.0	154.4	122.0	185.9	174.0	179.1	87.8
82.5°	54.6	55.4	87.0	133.9	125.4	77.6	76.8	75.9	64.8	64.0	40.9
85°	6.0	12.8	56.3	76.8	56.3	25.6	35.8	35.0	34.1	35.0	23.9
87.5°	0.9	0.9	9.4	11.1	7.7	8.5	10.2	11.1	13.6	12.8	10.2
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°	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1065.2	1031.1	967.9	907.4	862.2	833.2	795.7	782.0	762.4	759.9	750.5
5°	1111.2	1046.4	936.4	849.4	779.5	726.6	680.5	642.2	611.5	604.6	608.1
7.5°	1176.9	1080.5	927.0	808.5	711.2	620.8	547.5	502.3	469.9	458.0	459.7
10°	1251.1	1125.7	925.3	765.0	616.6	505.7	425.6	385.5	366.7	359.9	352.2
12.5°	1338.9	1177.7	921.0	697.6	512.5	403.4	346.2	322.4	304.5	299.3	299.3
15°	1437.8	1233.2	900.6	614.0	416.2	333.5	295.1	276.3	270.3	265.2	265.2
17.5°	1541.0	1287.7	857.9	510.8	345.4	285.7	261.8	250.7	242.2	236.2	236.2
20°	1658.7	1341.5	789.7	419.6	291.7	255.0	236.2	223.4	216.6	211.5	209.8
22.5°	1770.4	1385.0	702.7	344.5	254.1	229.4	212.4	198.7	191.9	189.3	189.3
25°	1886.4	1411.4	597.8	284.8	232.0	208.1	189.3	178.2	172.3	170.6	169.7
27.5°	1999.0	1426.8	505.7	249.0	211.5	188.5	170.6	162.0	156.1	154.4	155.2
30°	2135.4	1429.3	416.2	223.4	193.6	169.7	153.5	145.8	142.4	140.7	139.9
32.5°	2273.6	1425.9	349.7	208.1	176.5	153.5	139.9	133.9	131.3	128.8	128.8
35°	2428.8	1408.0	297.6	192.7	160.3	139.9	127.9	122.8	119.4	116.8	116.0
37.5°	2621.6	1398.6	267.8	175.7	145.8	127.1	116.0	110.9	108.3	104.9	104.0
40°	2925.2	1440.4	258.4	160.3	131.3	115.1	104.9	98.9	95.5	92.1	91.3
42.5°	3303.8	1513.7	243.1	145.0	118.5	104.0	93.8	87.0	81.0	76.8	75.0
45°	3794.2	1610.1	219.2	128.8	107.5	92.1	82.7	74.2	66.5	63.1	62.3
47.5°	4308.4	1703.1	197.9	116.0	95.5	81.9	71.6	62.3	55.4	52.9	52.0
50°	4624.0	1721.8	184.2	101.5	83.6	70.8	60.5	52.0	47.8	45.2	45.2
52.5°	4768.1	1692.0	165.4	88.7	72.5	62.3	52.0	45.2	42.6	40.9	40.1
55°	4868.7	1645.9	140.7	76.8	62.3	52.9	46.1	40.9	37.5	35.8	35.0
57°	4927.6	1583.7	122.0	67.4	53.7	46.1	40.9	36.7	33.3	29.8	29.8
57.5°	4930.1	1559.8	116.8	66.5	51.2	44.3	40.1	35.8	31.6	28.1	27.3
60°	4854.2	1396.1	93.8	56.3	40.9	37.5	33.3	28.1	22.2	18.8	17.9
62.5°	4610.3	1188.0	77.6	47.8	33.3	29.0	23.9	21.3	15.4	11.1	11.1
65°	4241.0	963.7	66.5	38.4	27.3	21.3	16.2	15.4	9.4	5.1	4.3
67.5°	3707.2	750.5	56.3	31.6	23.0	15.4	11.1	10.2	5.1	1.7	0.0
70°	2824.5	511.7	46.9	25.6	17.1	11.1	7.7	6.0	3.4	0.9	0.0
72.5°	1628.0	281.4	39.2	19.6	12.8	8.5	6.0	3.4	3.4	0.0	0.0
75°	581.6	121.1	29.8	14.5	10.2	6.8	4.3	1.7	2.6	0.9	0.0
77.5°	185.1	64.8	19.6	11.1	8.5	5.1	3.4	1.7	1.7	0.9	0.0
80°	54.6	34.1	11.9	9.4	6.0	4.3	2.6	0.9	1.7	0.9	0.0
82.5°	29.8	17.1	9.4	6.8	6.0	3.4	2.6	0.9	0.9	0.9	0.0
85°	15.4	10.2	7.7	6.8	6.0	3.4	2.6	0.9	0.0	0.9	0.9
87.5°	8.5	7.7	7.7	6.8	6.0	4.3	2.6	0.9	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)