

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: P452471

Luminaire Tested: **GALN-SA3B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452471
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-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 10807 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

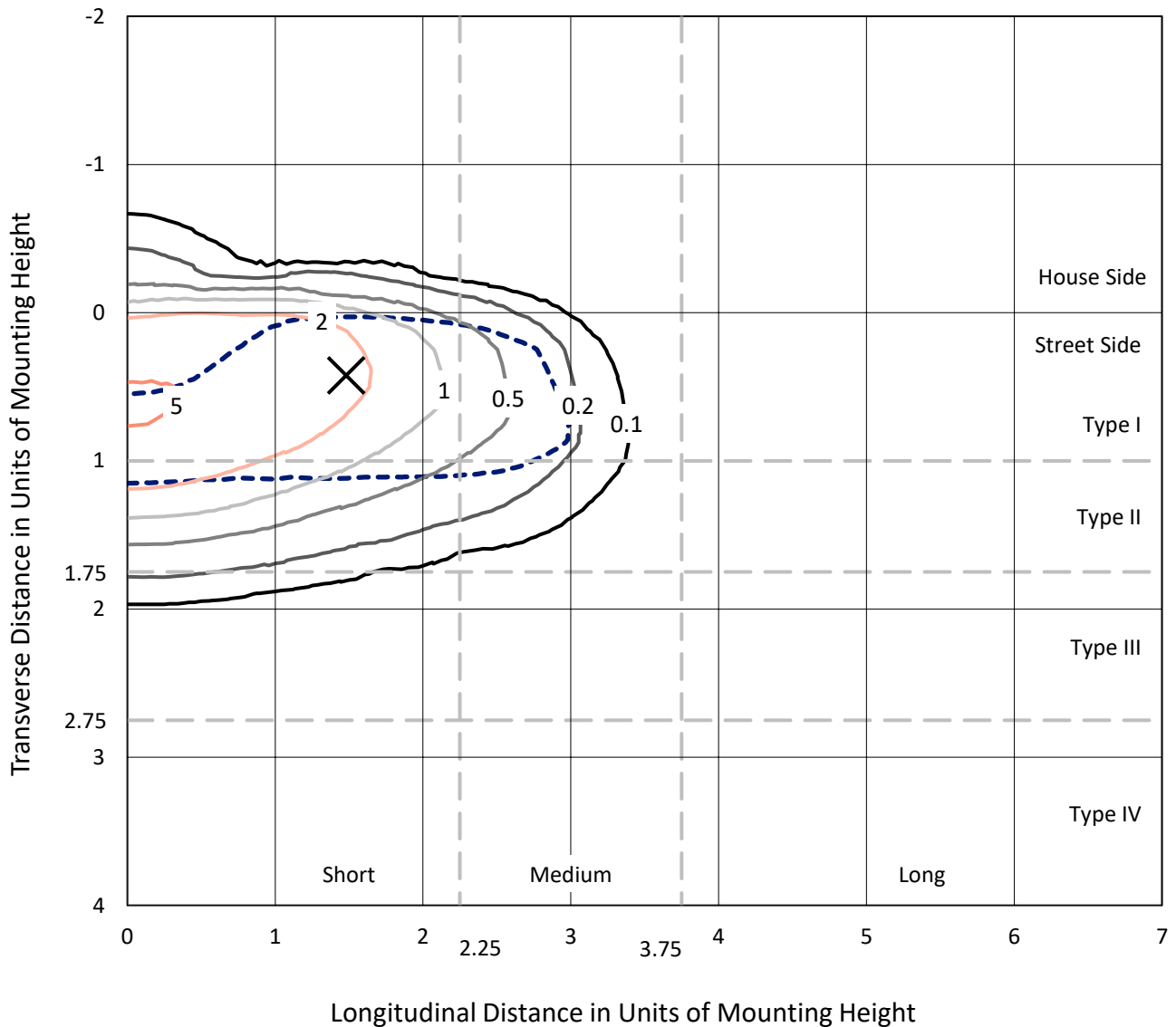
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

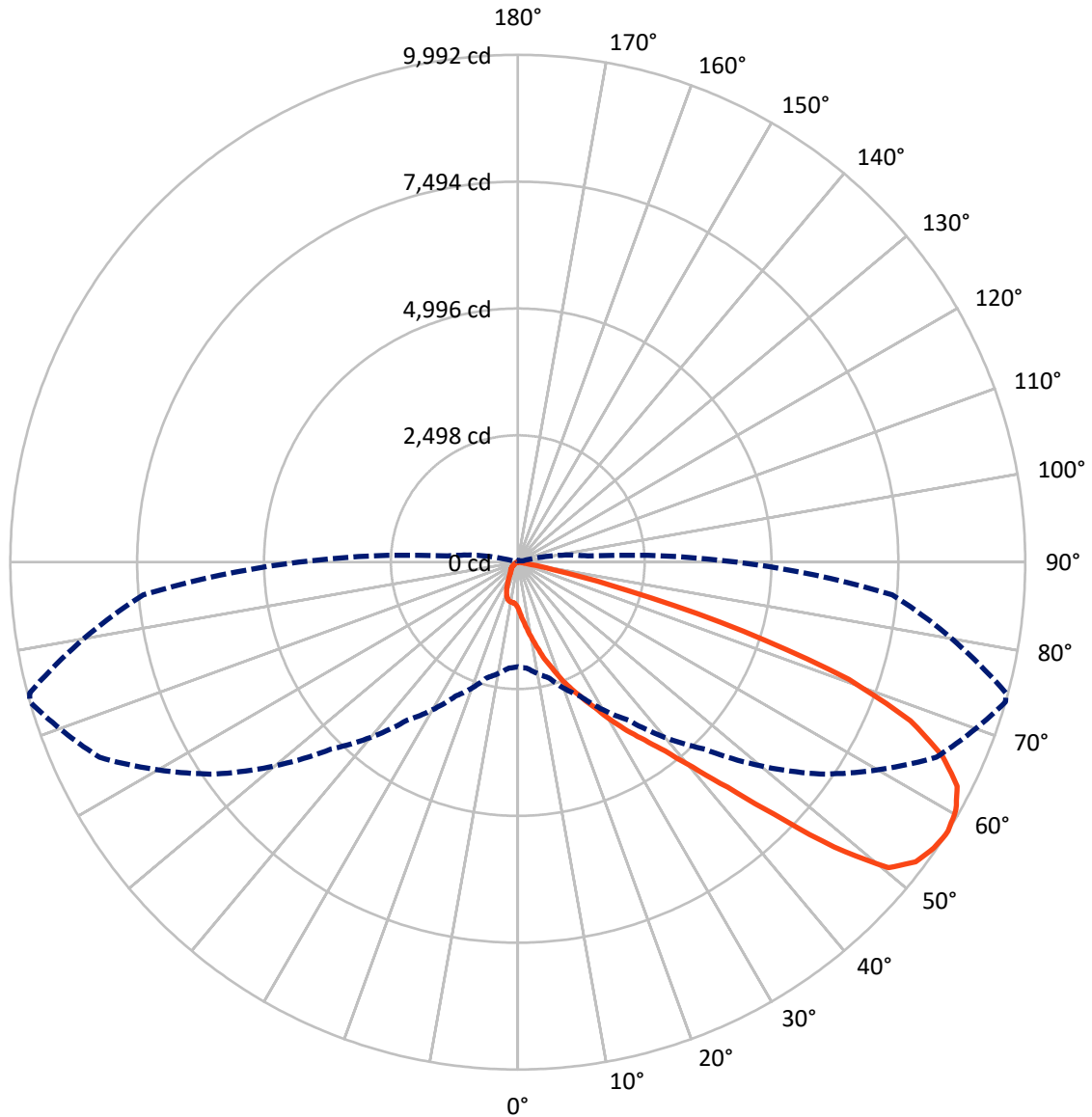
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	623.3	0.0	623.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10183.7	0.0	10183.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	10807.0	0.0	10807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.0
10°-20°	430.6	4.0
20°-30°	921.4	8.5
30°-40°	1693.5	15.7
40°-50°	2596.1	24.0
50°-60°	2746.3	25.4
60°-70°	1793.4	16.6
70°-80°	490.0	4.5
80°-90°	26.4	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°	10807.0	100.0
0°-180°	10807.0	100.0

Coefficient of Utilization



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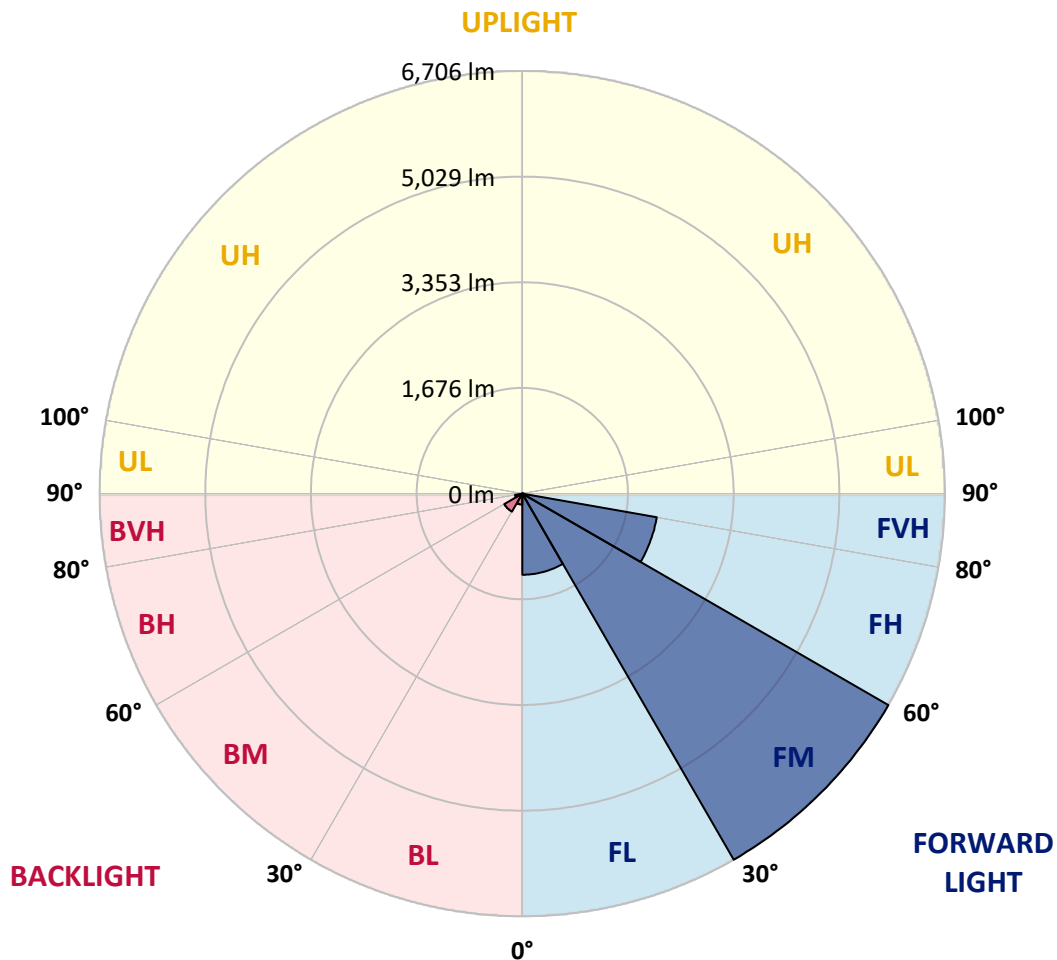
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.1	11.9			
FM (30°-60°)	6705.9	62.1			
FH (60°-80°)	2166.4	20.0			G2/5000
FVH (80°-90°)	24.2	0.2			G1/100
BL (0°-30°)	174.1	1.6	B1/500		
BM (30°-60°)	330.0	3.1	B1/1000		
BH (60°-80°)	117.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1
2.5°	1324.4	1312.5	1288.6	1280.4	1245.3	1190.8	1143.1	1078.9	1028.2	1023.0	961.8
5°	1773.6	1746.7	1735.5	1681.8	1597.5	1518.4	1382.6	1279.6	1161.0	1152.0	1028.9
7.5°	2206.3	2169.0	2157.8	2107.1	2008.6	1884.0	1707.9	1520.6	1332.6	1315.5	1119.2
10°	2519.7	2524.9	2504.8	2471.2	2391.4	2264.5	2047.4	1791.5	1523.6	1502.0	1220.7
12.5°	2744.3	2743.6	2747.3	2746.6	2704.0	2607.8	2379.5	2084.7	1734.0	1691.5	1337.1
15°	2890.6	2892.8	2904.0	2942.8	2947.3	2887.6	2697.3	2365.3	1978.0	1925.1	1463.2
17.5°	3038.3	3054.0	3071.9	3108.4	3141.3	3117.4	2983.1	2657.8	2198.9	2159.3	1598.2
20°	3282.3	3303.9	3293.5	3315.9	3333.0	3335.3	3231.5	2927.9	2466.8	2400.3	1752.7
22.5°	3672.5	3671.8	3644.9	3604.6	3571.0	3569.6	3475.5	3205.4	2710.0	2645.8	1907.9
25°	4165.7	4168.0	4115.7	4000.8	3917.3	3815.0	3706.8	3448.7	2970.4	2891.3	2071.3
27.5°	4731.3	4717.1	4638.0	4479.8	4314.2	4139.6	3983.7	3731.5	3246.5	3180.8	2258.6
30°	5239.4	5234.2	5141.7	4948.4	4730.6	4555.2	4329.1	4085.9	3603.9	3523.3	2468.2
32.5°	5712.5	5719.9	5591.6	5391.6	5181.2	4979.0	4740.3	4424.6	3954.6	3840.4	2696.6
35°	6081.8	6089.3	5956.5	5790.1	5573.7	5405.8	5178.2	4785.8	4300.8	4204.5	2959.2
37.5°	6278.8	6288.5	6211.6	6086.3	5951.2	5866.9	5655.0	5250.6	4721.6	4663.4	3269.6
40°	6316.1	6327.3	6293.7	6260.1	6252.7	6313.1	6251.2	5798.3	5305.1	5214.1	3732.2
42.5°	6204.2	6219.1	6234.0	6308.6	6460.9	6682.5	6898.1	6541.4	6056.4	5934.1	4297.8
45°	5910.2	5908.7	5967.7	6160.9	6501.9	6975.0	7574.1	7471.9	7080.2	6934.7	5096.9
47.5°	5407.3	5399.8	5527.4	5802.8	6334.0	7028.7	8125.5	8601.5	8386.7	8252.3	5955.7
50°	4641.0	4677.6	4878.3	5262.6	5916.9	6866.0	8295.6	9342.5	9458.9	9316.3	6649.6
52.5°	3743.4	3741.9	4056.8	4578.3	5299.1	6507.9	8177.0	9476.8	9807.3	9698.4	6991.4
55°	2770.4	2789.8	3117.4	3643.4	4497.0	5854.2	7789.7	9338.7	9940.1	9863.3	7216.7
57°	2060.8	2095.2	2357.8	2914.4	3798.6	5207.3	7274.2	9091.8	9992.4	9950.6	7404.0
57.5°	1923.6	1925.1	2181.0	2686.9	3594.2	4958.9	7126.4	8988.8	9990.9	9967.7	7434.6
60°	1184.1	1221.4	1398.3	1816.1	2630.9	3870.2	6136.3	8397.1	9913.3	9946.8	7565.1
62.5°	708.8	724.5	839.4	1094.6	1696.0	2824.9	5021.5	7639.8	9711.1	9813.3	7556.2
65°	455.9	459.6	511.9	662.6	1060.3	1909.4	3869.5	6639.2	9188.0	9376.0	7260.7
67.5°	352.2	358.1	379.0	435.0	614.8	1189.4	2736.9	5571.5	8341.9	8584.4	6544.4
70°	312.6	315.6	323.1	341.0	406.6	671.5	1702.7	4352.3	6917.5	6986.1	5121.5
72.5°	255.2	263.4	286.5	292.5	322.3	419.3	947.6	2921.2	4647.7	4664.9	2865.2
75°	197.7	199.2	233.5	250.7	271.6	288.8	423.1	1472.9	2232.5	2113.1	1104.3
77.5°	147.7	154.5	170.1	191.8	221.6	206.7	189.5	555.1	693.2	680.5	320.8
80°	94.8	98.5	118.6	144.0	172.4	135.1	106.7	162.7	152.2	156.7	76.9
82.5°	47.8	48.5	76.1	117.1	109.7	67.9	67.2	66.4	56.7	56.0	35.8
85°	5.2	11.2	49.2	67.2	49.2	22.4	31.3	30.6	29.8	30.6	20.9
87.5°	0.7	0.7	8.2	9.7	6.7	7.5	9.0	9.7	11.9	11.2	9.0
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°	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1	905.1
2.5°	931.9	902.1	846.9	793.9	754.4	729.0	696.2	684.2	667.1	664.8	656.6
5°	972.2	915.5	819.3	743.2	682.0	635.7	595.4	561.8	535.0	529.0	532.0
7.5°	1029.7	945.4	811.1	707.3	622.3	543.2	479.0	439.5	411.1	400.7	402.2
10°	1094.6	984.9	809.6	669.3	539.5	442.5	372.3	337.3	320.8	314.9	308.2
12.5°	1171.4	1030.4	805.8	610.3	448.4	352.9	302.9	282.0	266.4	261.9	261.9
15°	1258.0	1078.9	787.9	537.2	364.1	291.7	258.2	241.8	236.5	232.1	232.1
17.5°	1348.3	1126.7	750.6	446.9	302.2	250.0	229.1	219.4	211.9	206.7	206.7
20°	1451.2	1173.7	690.9	367.1	255.2	223.1	206.7	195.5	189.5	185.0	183.6
22.5°	1549.0	1211.7	614.8	301.4	222.4	200.7	185.8	173.9	167.9	165.6	165.6
25°	1650.5	1234.9	523.0	249.2	203.0	182.1	165.6	155.9	150.7	149.2	148.5
27.5°	1749.0	1248.3	442.5	217.9	185.0	164.9	149.2	141.8	136.5	135.1	135.8
30°	1868.3	1250.5	364.1	195.5	169.4	148.5	134.3	127.6	124.6	123.1	122.4
32.5°	1989.2	1247.6	305.9	182.1	154.5	134.3	122.4	117.1	114.9	112.7	112.7
35°	2125.0	1231.9	260.4	168.6	140.3	122.4	111.9	107.4	104.5	102.2	101.5
37.5°	2293.6	1223.7	234.3	153.7	127.6	111.2	101.5	97.0	94.8	91.8	91.0
40°	2559.3	1260.2	226.1	140.3	114.9	100.7	91.8	86.6	83.6	80.6	79.8
42.5°	2890.6	1324.4	212.7	126.8	103.7	91.0	82.1	76.1	70.9	67.2	65.7
45°	3319.6	1408.7	191.8	112.7	94.0	80.6	72.4	64.9	58.2	55.2	54.5
47.5°	3769.5	1490.0	173.1	101.5	83.6	71.6	62.7	54.5	48.5	46.3	45.5
50°	4045.6	1506.5	161.2	88.8	73.1	61.9	53.0	45.5	41.8	39.5	39.5
52.5°	4171.7	1480.3	144.8	77.6	63.4	54.5	45.5	39.5	37.3	35.8	35.1
55°	4259.7	1440.1	123.1	67.2	54.5	46.3	40.3	35.8	32.8	31.3	30.6
57°	4311.2	1385.6	106.7	58.9	47.0	40.3	35.8	32.1	29.1	26.1	26.1
57.5°	4313.5	1364.7	102.2	58.2	44.8	38.8	35.1	31.3	27.6	24.6	23.9
60°	4247.0	1221.4	82.1	49.2	35.8	32.8	29.1	24.6	19.4	16.4	15.7
62.5°	4033.7	1039.4	67.9	41.8	29.1	25.4	20.9	18.7	13.4	9.7	9.7
65°	3710.6	843.1	58.2	33.6	23.9	18.7	14.2	13.4	8.2	4.5	3.7
67.5°	3243.5	656.6	49.2	27.6	20.1	13.4	9.7	9.0	4.5	1.5	0.0
70°	2471.2	447.7	41.0	22.4	14.9	9.7	6.7	5.2	3.0	0.7	0.0
72.5°	1424.4	246.2	34.3	17.2	11.2	7.5	5.2	3.0	3.0	0.0	0.0
75°	508.9	106.0	26.1	12.7	9.0	6.0	3.7	1.5	2.2	0.7	0.0
77.5°	161.9	56.7	17.2	9.7	7.5	4.5	3.0	1.5	1.5	0.7	0.0
80°	47.8	29.8	10.4	8.2	5.2	3.7	2.2	0.7	1.5	0.7	0.0
82.5°	26.1	14.9	8.2	6.0	5.2	3.0	2.2	0.7	0.7	0.7	0.0
85°	13.4	9.0	6.7	6.0	5.2	3.0	2.2	0.7	0.0	0.7	0.7
87.5°	7.5	6.7	6.7	6.0	5.2	3.7	2.2	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)