

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: P459025

Luminaire Tested: **GALN-SA5B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459025
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-SA5B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21253 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

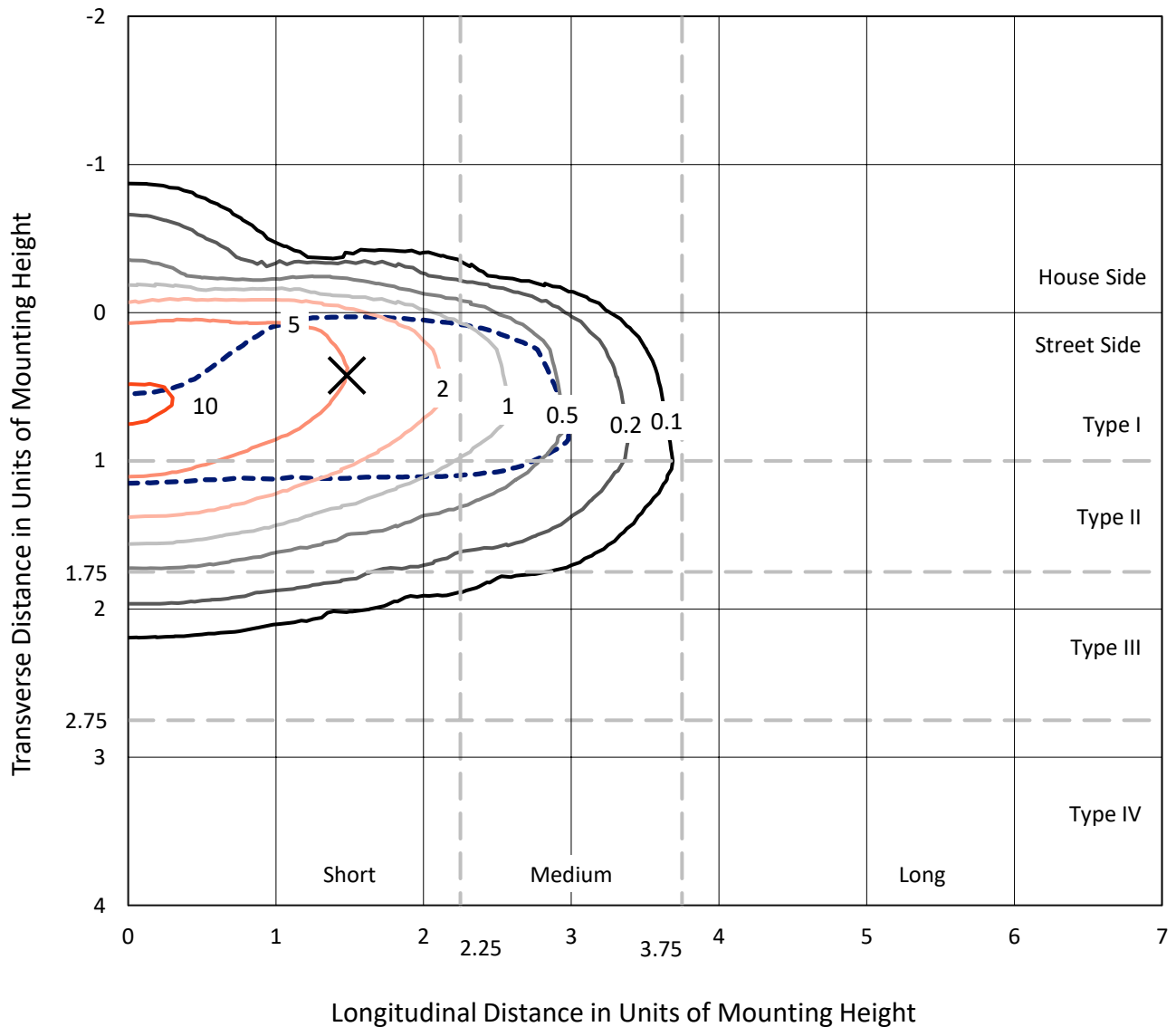
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

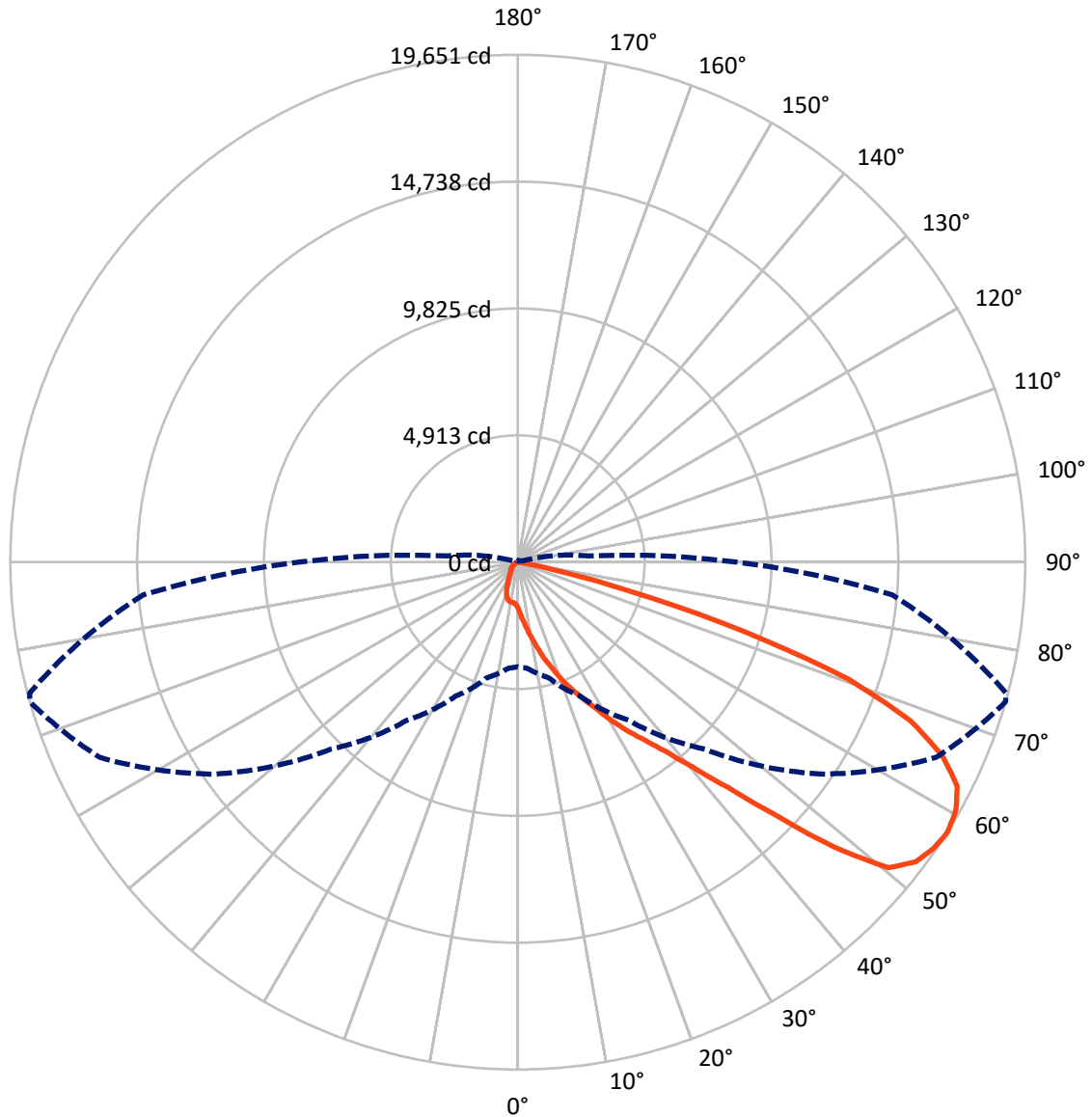
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	1225.8	0.0	1225.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20027.2	0.0	20027.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	21253.0	0.0	21253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	1.0
10°-20°	846.8	4.0
20°-30°	1812.0	8.5
30°-40°	3330.4	15.7
40°-50°	5105.5	24.0
50°-60°	5400.9	25.4
60°-70°	3527.0	16.6
70°-80°	963.7	4.5
80°-90°	51.9	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°	21253.0	100.0
0°-180°	21253.0	100.0

Coefficient of Utilization



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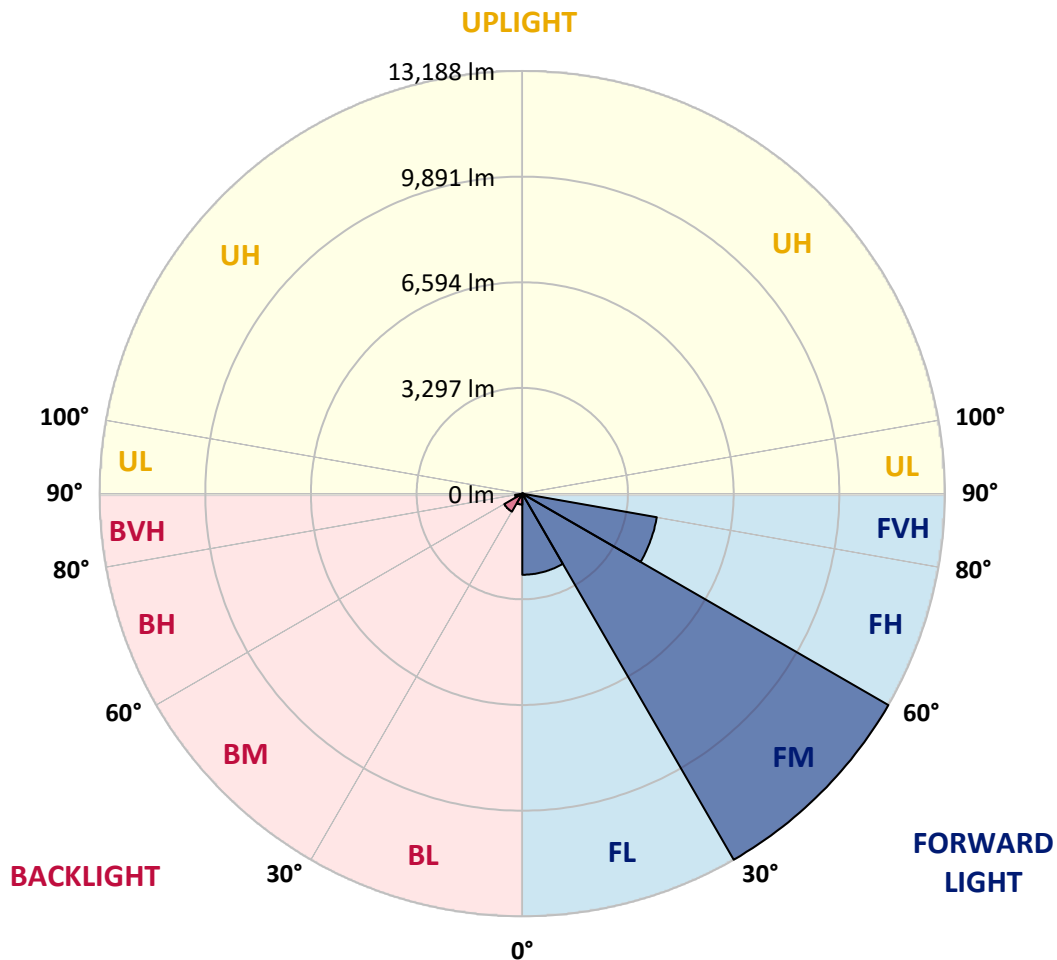
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.2	11.9			
FM (30°-60°)	13187.9	62.1			
FH (60°-80°)	4260.5	20.0			G2/5000
FVH (80°-90°)	47.6	0.2			G1/100
BL (0°-30°)	342.4	1.6	B1/500		
BM (30°-60°)	649.0	3.1	B1/1000		
BH (60°-80°)	230.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9
2.5°	2604.6	2581.1	2534.1	2518.0	2449.0	2341.9	2248.0	2121.8	2022.0	2011.8	1891.4
5°	3487.9	3435.1	3413.1	3307.4	3141.6	2986.1	2719.0	2516.5	2283.2	2265.6	2023.5
7.5°	4339.0	4265.6	4243.6	4143.8	3950.1	3705.1	3358.8	2990.5	2620.7	2587.0	2201.0
10°	4955.3	4965.6	4925.9	4859.9	4702.9	4453.4	4026.4	3523.1	2996.4	2953.8	2400.6
12.5°	5397.0	5395.5	5402.8	5401.4	5317.7	5128.4	4679.4	4099.8	3410.2	3326.5	2629.5
15°	5684.6	5689.0	5711.0	5787.3	5796.1	5678.7	5304.5	4651.5	3890.0	3785.8	2877.5
17.5°	5975.1	6005.9	6041.1	6113.0	6177.6	6130.6	5866.5	5226.7	4324.3	4246.5	3143.1
20°	6454.9	6497.5	6476.9	6521.0	6554.7	6559.1	6355.1	5757.9	4851.1	4720.5	3446.8
22.5°	7222.4	7220.9	7168.1	7088.8	7022.8	7019.9	6835.0	6303.8	5329.5	5203.3	3752.0
25°	8192.3	8196.7	8094.0	7868.0	7703.7	7502.6	7289.9	6782.2	5841.6	5686.0	4073.4
27.5°	9304.5	9276.7	9121.1	8810.0	8484.3	8140.9	7834.2	7338.3	6384.5	6255.4	4441.7
30°	10303.8	10293.5	10111.6	9731.6	9303.1	8958.2	8513.6	8035.3	7087.4	6928.9	4854.0
32.5°	11234.1	11248.8	10996.4	10603.2	10189.4	9791.7	9322.2	8701.5	7777.0	7552.5	5303.0
35°	11960.5	11975.1	11714.0	11386.7	10961.2	10631.0	10183.5	9411.7	8457.9	8268.6	5819.6
37.5°	12347.9	12366.9	12215.8	11969.3	11703.7	11537.9	11121.1	10325.8	9285.5	9171.0	6430.0
40°	12421.2	12443.2	12377.2	12311.2	12296.5	12415.4	12293.6	11402.9	10432.9	10253.9	7339.7
42.5°	12201.1	12230.5	12259.8	12406.6	12705.9	13141.7	13565.8	12864.4	11910.6	11669.9	8452.0
45°	11623.0	11620.0	11736.0	12116.0	12786.6	13716.9	14895.2	14694.2	13923.8	13637.7	10023.6
47.5°	10634.0	10619.3	10870.2	11411.7	12456.4	13822.6	15979.6	16915.8	16493.2	16229.0	11712.5
50°	9127.0	9198.9	9593.6	10349.3	11636.2	13502.7	16314.1	18372.8	18601.8	18321.5	13077.1
52.5°	7361.8	7358.8	7978.1	9003.7	10421.2	12798.3	16080.8	18637.0	19287.0	19072.8	13749.2
55°	5448.3	5486.5	6130.6	7165.1	8843.8	11512.9	15319.3	18365.5	19548.2	19397.1	14192.3
57°	4052.9	4120.4	4636.9	5731.5	7470.3	10240.7	14305.3	17879.8	19650.9	19568.8	14560.6
57.5°	3782.9	3785.8	4289.1	5284.0	7068.3	9752.1	14014.8	17677.3	19648.0	19602.5	14620.8
60°	2328.7	2402.1	2749.8	3571.6	5173.9	7611.2	12067.6	16513.7	19495.4	19561.4	14877.6
62.5°	1394.0	1424.8	1650.8	2152.6	3335.3	5555.4	9875.4	15024.3	19097.7	19298.8	14860.0
65°	896.6	903.9	1006.6	1303.0	2085.1	3755.0	7609.7	13056.6	18069.1	18438.9	14278.9
67.5°	692.6	704.3	745.4	855.5	1209.1	2339.0	5382.3	10956.8	16405.1	16882.0	12870.2
70°	614.8	620.7	635.4	670.6	799.7	1320.6	3348.5	8559.1	13603.9	13738.9	10072.0
72.5°	501.8	518.0	563.5	575.2	633.9	824.7	1863.6	5744.7	9140.2	9174.0	5634.7
75°	388.9	391.8	459.3	493.0	534.1	567.9	832.0	2896.6	4390.3	4155.6	2171.7
77.5°	290.5	303.7	334.6	377.1	435.8	406.5	372.7	1091.7	1363.2	1338.2	631.0
80°	186.4	193.7	233.3	283.2	339.0	265.6	209.8	319.9	299.3	308.1	151.1
82.5°	93.9	95.4	149.7	230.4	215.7	133.5	132.1	130.6	111.5	110.1	70.4
85°	10.3	22.0	96.8	132.1	96.8	44.0	61.6	60.2	58.7	60.2	41.1
87.5°	1.5	1.5	16.1	19.1	13.2	14.7	17.6	19.1	23.5	22.0	17.6
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°	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9	1779.9
2.5°	1832.7	1774.0	1665.5	1561.3	1483.5	1433.6	1369.0	1345.6	1311.8	1307.4	1291.3
5°	1912.0	1800.5	1611.2	1461.5	1341.2	1250.2	1171.0	1104.9	1052.1	1040.4	1046.2
7.5°	2025.0	1859.1	1595.0	1391.1	1223.8	1068.2	942.0	864.3	808.5	788.0	790.9
10°	2152.6	1936.9	1592.1	1316.2	1060.9	870.1	732.2	663.2	631.0	619.2	606.0
12.5°	2303.8	2026.4	1584.8	1200.3	881.9	694.1	595.7	554.7	523.8	515.0	515.0
15°	2474.0	2121.8	1549.5	1056.5	716.1	573.7	507.7	475.4	465.2	456.3	456.3
17.5°	2651.5	2215.7	1476.2	879.0	594.3	491.6	450.5	431.4	416.7	406.5	406.5
20°	2854.0	2308.2	1358.8	721.9	501.8	438.7	406.5	384.4	372.7	363.9	361.0
22.5°	3046.2	2383.0	1209.1	592.8	437.3	394.7	365.4	341.9	330.2	325.8	325.8
25°	3245.8	2428.5	1028.6	490.1	399.1	358.0	325.8	306.7	296.4	293.5	292.0
27.5°	3439.5	2454.9	870.1	428.5	363.9	324.3	293.5	278.8	268.5	265.6	267.1
30°	3674.3	2459.3	716.1	384.4	333.1	292.0	264.1	250.9	245.0	242.1	240.6
32.5°	3912.0	2453.4	601.6	358.0	303.7	264.1	240.6	230.4	226.0	221.6	221.6
35°	4179.0	2422.6	512.1	331.6	275.9	240.6	220.1	211.3	205.4	201.0	199.6
37.5°	4510.7	2406.5	460.8	302.3	250.9	218.6	199.6	190.8	186.4	180.5	179.0
40°	5033.1	2478.4	444.6	275.9	226.0	198.1	180.5	170.2	164.3	158.5	157.0
42.5°	5684.6	2604.6	418.2	249.5	204.0	179.0	161.4	149.7	139.4	132.1	129.1
45°	6528.3	2770.4	377.1	221.6	184.9	158.5	142.3	127.7	114.5	108.6	107.1
47.5°	7413.1	2930.3	340.4	199.6	164.3	140.9	123.3	107.1	95.4	91.0	89.5
50°	7956.0	2962.6	317.0	174.6	143.8	121.8	104.2	89.5	82.2	77.8	77.8
52.5°	8204.0	2911.2	284.7	152.6	124.7	107.1	89.5	77.8	73.4	70.4	69.0
55°	8377.2	2832.0	242.1	132.1	107.1	91.0	79.2	70.4	64.6	61.6	60.2
57°	8478.4	2724.9	209.8	115.9	92.4	79.2	70.4	63.1	57.2	51.4	51.4
57.5°	8482.8	2683.8	201.0	114.5	88.0	76.3	69.0	61.6	54.3	48.4	47.0
60°	8352.2	2402.1	161.4	96.8	70.4	64.6	57.2	48.4	38.2	32.3	30.8
62.5°	7932.6	2044.0	133.5	82.2	57.2	49.9	41.1	36.7	26.4	19.1	19.1
65°	7297.2	1658.1	114.5	66.0	47.0	36.7	27.9	26.4	16.1	8.8	7.3
67.5°	6378.6	1291.3	96.8	54.3	39.6	26.4	19.1	17.6	8.8	2.9	0.0
70°	4859.9	880.4	80.7	44.0	29.3	19.1	13.2	10.3	5.9	1.5	0.0
72.5°	2801.2	484.2	67.5	33.7	22.0	14.7	10.3	5.9	5.9	0.0	0.0
75°	1000.7	208.4	51.4	24.9	17.6	11.7	7.3	2.9	4.4	1.5	0.0
77.5°	318.4	111.5	33.7	19.1	14.7	8.8	5.9	2.9	2.9	1.5	0.0
80°	93.9	58.7	20.5	16.1	10.3	7.3	4.4	1.5	2.9	1.5	0.0
82.5°	51.4	29.3	16.1	11.7	10.3	5.9	4.4	1.5	1.5	1.5	0.0
85°	26.4	17.6	13.2	11.7	10.3	5.9	4.4	1.5	0.0	1.5	1.5
87.5°	14.7	13.2	13.2	11.7	10.3	7.3	4.4	1.5	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)