

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: P949148

Luminaire Tested: **GALN-SB4A-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14119 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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

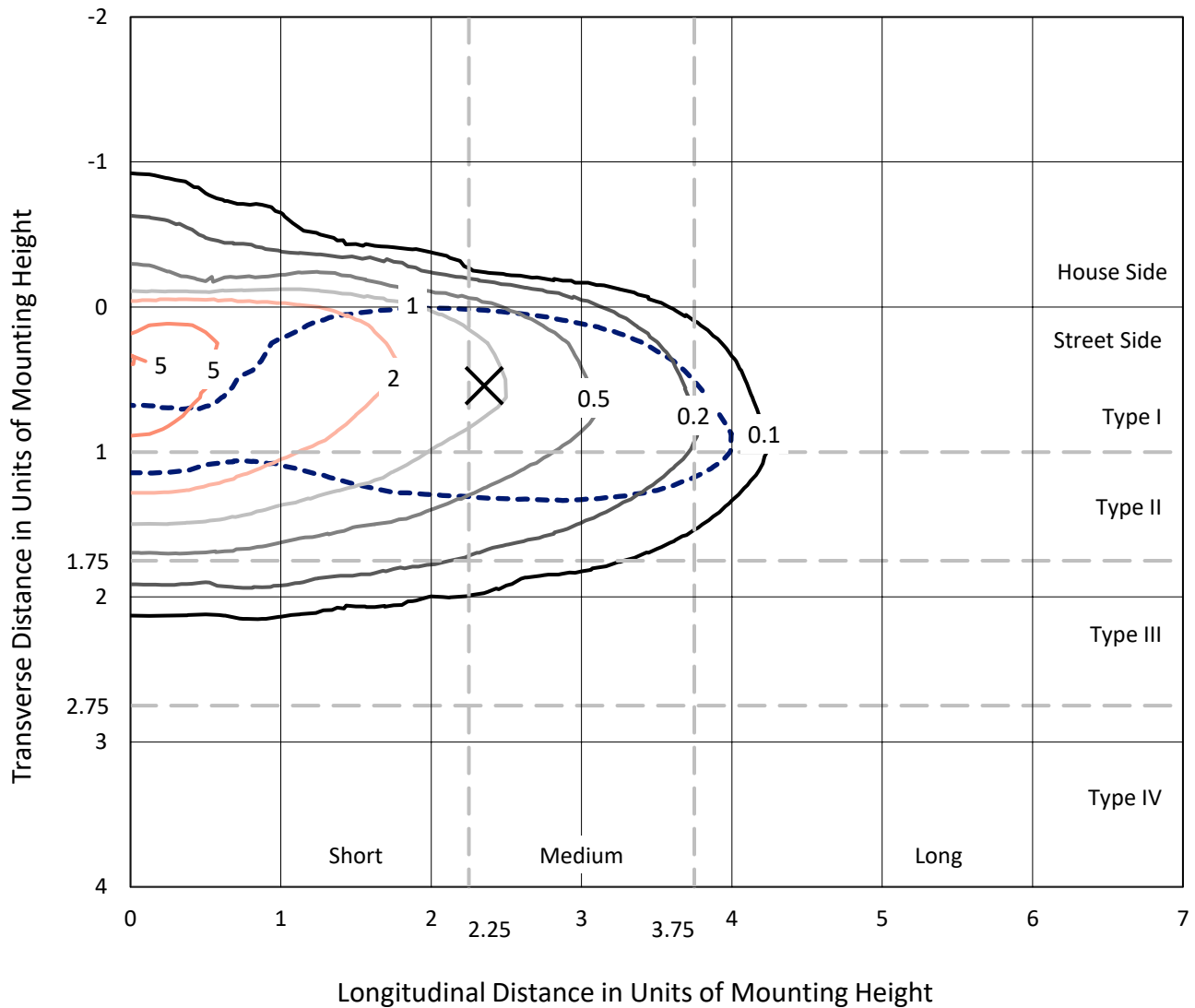


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Iso-Footcandle Lines of Horizontal Illumination

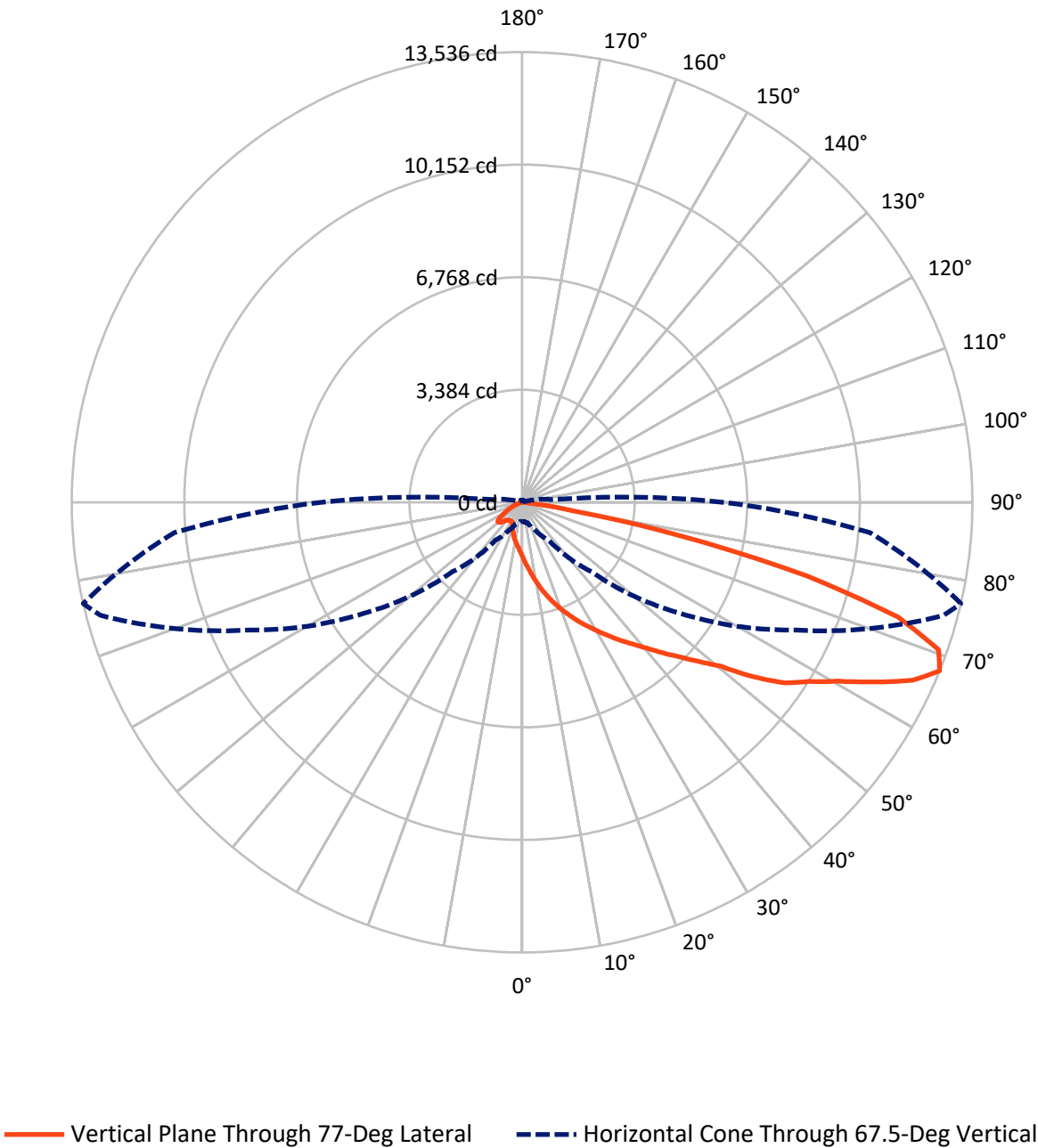
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.8	0.0	1038.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13080.3	0.0	13080.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	14119.0	0.0	14119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.2
10°-20°	581.9	4.1
20°-30°	1123.0	8.0
30°-40°	1949.5	13.8
40°-50°	2830.6	20.0
50°-60°	3250.6	23.0
60°-70°	2822.1	20.0
70°-80°	1329.3	9.4
80°-90°	65.7	0.5
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°	14119.0	100.0
0°-180°	14119.0	100.0

Coefficient of Utilization



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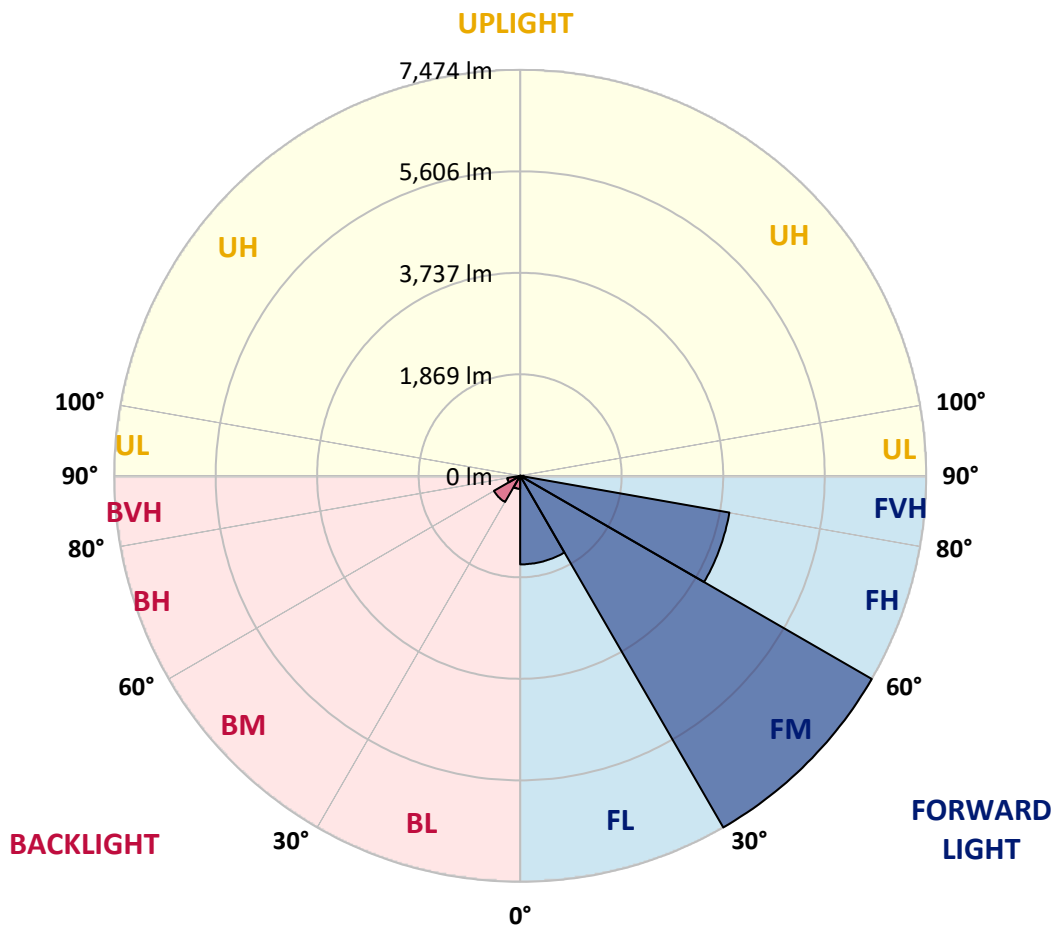
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1630.6	11.5			
FM	(30°-60°)	7474.2	52.9			
FH	(60°-80°)	3910.9	27.7			G2/5000
FVH	(80°-90°)	64.5	0.5			G1/100
BL	(0°-30°)	240.5	1.7	B1/500		
BM	(30°-60°)	556.6	3.9	B1/1000		
BH	(60°-80°)	240.5	1.7	B1/500		G1/500
BVH	(80°-90°)	1.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1
2.5°	2254.1	2268.2	2248.0	2209.4	2151.5	2113.8	2021.8	1935.0	1838.5	1807.9	1711.4
5°	2747.7	2760.0	2737.2	2695.1	2618.0	2544.3	2423.3	2241.9	2053.4	1992.9	1821.9
7.5°	3113.3	3120.4	3111.6	3073.0	2999.4	2916.1	2781.1	2566.3	2286.6	2219.9	1957.8
10°	3376.4	3399.2	3396.5	3381.6	3332.5	3265.0	3121.2	2876.6	2547.8	2461.9	2111.2
12.5°	3550.8	3576.3	3591.2	3624.5	3621.9	3578.9	3452.6	3194.0	2808.2	2707.4	2283.9
15°	3601.7	3628.9	3685.9	3763.0	3831.4	3853.3	3764.8	3505.3	3094.9	2966.1	2461.0
17.5°	3572.8	3614.8	3683.2	3805.1	3955.0	4054.1	4044.5	3806.0	3355.3	3208.0	2634.6
20°	3636.8	3677.1	3730.6	3833.2	4007.6	4187.4	4259.3	4093.6	3614.0	3459.7	2817.0
22.5°	3991.0	3984.0	3989.2	4005.9	4110.2	4288.2	4436.4	4354.8	3870.0	3712.2	3009.9
25°	4552.1	4520.5	4467.1	4376.7	4350.4	4436.4	4590.7	4586.3	4140.0	3970.8	3207.2
27.5°	5195.6	5190.4	5065.0	4847.6	4724.8	4691.5	4765.1	4811.6	4407.4	4226.8	3405.3
30°	5812.0	5826.0	5656.8	5414.8	5189.5	5058.9	4992.2	5025.5	4679.2	4503.0	3609.6
32.5°	6348.6	6363.5	6179.3	5896.2	5617.3	5459.5	5319.3	5236.8	4975.6	4783.6	3834.0
35°	6801.8	6816.7	6605.4	6292.4	5995.2	5852.3	5693.6	5468.3	5273.7	5094.8	4083.9
37.5°	7206.9	7202.5	6919.3	6603.7	6311.7	6198.6	6115.3	5753.2	5580.5	5407.8	4361.0
40°	7446.3	7464.7	7222.7	6874.6	6591.4	6509.0	6503.7	6106.6	5934.7	5767.3	4664.3
42.5°	7516.4	7548.8	7373.5	7087.7	6830.8	6741.3	6879.0	6488.8	6346.8	6183.7	5007.1
45°	7390.1	7421.7	7341.9	7143.8	6993.8	6936.0	7201.6	6885.1	6786.9	6625.6	5393.8
47.5°	7021.9	7061.4	7080.6	7038.6	7036.8	7095.6	7491.0	7302.5	7309.5	7144.7	5841.8
50°	6309.1	6375.7	6552.8	6701.9	6932.5	7221.8	7772.4	7754.9	7898.7	7756.6	6425.7
52.5°	5013.3	5108.0	5718.2	6125.9	6644.0	7198.1	8081.9	8480.8	8932.3	8724.6	7249.0
55°	4028.7	4028.7	4524.9	5287.7	6081.2	7042.1	8216.9	8952.5	9636.4	9587.3	7828.5
57.5°	3284.3	3323.8	3640.3	4314.5	5266.6	6670.3	8300.2	9248.9	10203.6	10167.7	8394.9
60°	2027.1	2112.1	2710.0	3375.5	4339.9	6008.4	8247.6	9548.7	10891.9	10920.8	9077.0
62.5°	1141.5	1173.1	1439.6	2428.6	3374.6	5118.5	7845.2	9716.2	11772.1	11894.9	9780.2
65°	788.2	804.0	906.6	1511.5	2339.2	4075.1	7058.7	9611.8	12654.2	12902.3	10376.4
67.5°	572.5	580.4	644.4	923.2	1387.9	2954.7	5826.0	9085.8	13121.5	13536.2	10490.3
70°	440.1	445.4	491.9	606.7	819.8	1823.6	4231.2	8039.8	12783.0	13278.4	9906.4
72.5°	357.7	363.0	398.9	448.9	543.6	1078.4	2564.5	6529.2	11289.1	11823.9	8433.5
75°	301.6	308.6	341.1	373.5	426.1	692.6	1202.9	4546.8	8489.6	8840.3	5864.6
77.5°	167.5	154.3	277.1	309.5	359.5	438.4	562.9	2675.8	4754.6	4851.9	2602.2
80°	104.3	107.8	220.1	249.0	276.2	220.9	257.8	1030.2	1648.3	1565.9	504.1
82.5°	6.1	14.0	169.2	179.7	189.4	94.7	97.3	349.8	397.2	364.7	89.4
85°	0.0	0.0	77.2	62.2	65.8	27.2	28.1	81.5	53.5	57.9	17.5
87.5°	0.0	0.0	0.0	1.8	0.0	2.6	5.3	7.0	2.6	3.5	6.1
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°	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1	1628.1
2.5°	1650.0	1588.7	1464.2	1342.3	1243.2	1151.2	1085.4	1023.2	991.6	989.9	988.1
5°	1700.0	1571.1	1322.1	1102.1	925.0	782.9	690.9	625.1	591.8	580.4	578.7
7.5°	1770.2	1576.4	1197.6	891.7	683.0	561.1	508.5	487.5	480.5	472.6	470.8
10°	1858.7	1588.7	1086.3	718.1	538.3	477.0	455.9	447.1	441.9	436.6	434.9
12.5°	1957.8	1600.1	975.8	596.2	473.4	441.9	427.0	416.5	409.4	403.3	401.6
15°	2054.2	1607.1	861.0	511.1	440.1	414.7	398.9	387.5	377.9	370.9	370.0
17.5°	2149.8	1616.7	753.1	460.3	413.0	387.5	371.7	357.7	349.8	341.9	341.1
20°	2255.9	1615.0	651.4	424.3	385.8	360.3	343.7	330.5	322.6	313.9	313.0
22.5°	2354.1	1606.2	562.0	393.7	357.7	333.2	314.8	301.6	293.7	286.7	285.8
25°	2467.2	1599.2	487.5	365.6	331.4	306.9	286.7	274.4	265.7	259.5	258.6
27.5°	2575.9	1588.7	433.1	340.2	306.0	282.3	263.0	249.0	241.1	236.7	236.7
30°	2682.9	1586.0	413.0	315.6	283.2	259.5	240.2	227.1	220.9	219.2	218.3
32.5°	2811.7	1593.1	421.7	306.9	262.1	238.5	220.1	210.4	204.3	204.3	204.3
35°	2949.4	1591.3	434.9	314.8	248.1	217.4	203.4	197.3	191.1	191.1	191.1
37.5°	3122.1	1593.9	445.4	327.9	242.9	199.9	192.0	184.1	180.6	180.6	180.6
40°	3379.9	1680.7	440.1	339.3	241.1	187.6	171.8	169.2	166.6	166.6	166.6
42.5°	3695.5	1869.2	447.1	340.2	240.2	178.9	157.8	163.1	156.9	156.1	155.2
45°	4040.9	2075.3	491.9	321.8	239.4	174.5	150.8	156.9	147.3	147.3	147.3
47.5°	4383.8	2279.6	537.4	295.5	236.7	173.6	144.7	141.2	138.5	139.4	139.4
50°	4856.3	2446.1	555.0	259.5	230.6	171.8	133.3	134.1	132.4	134.1	134.1
52.5°	5371.0	2481.2	533.9	219.2	213.1	166.6	125.4	128.9	128.0	129.8	129.8
55°	5691.9	2443.5	441.0	182.4	185.9	145.5	117.5	124.5	124.5	124.5	124.5
57.5°	6023.3	2283.1	313.0	148.2	154.3	119.2	110.5	120.1	119.2	118.4	118.4
60°	6261.8	2023.5	206.0	121.9	122.7	98.2	102.6	113.1	112.2	107.8	107.8
62.5°	6439.7	1736.8	132.4	103.5	93.8	88.6	93.8	102.6	99.1	89.4	87.7
65°	6419.6	1339.7	101.7	88.6	77.2	77.2	81.5	89.4	78.9	63.1	61.4
67.5°	6045.2	906.6	84.2	74.5	64.9	64.0	67.5	74.5	67.5	53.5	51.7
70°	5376.2	592.7	67.5	57.9	51.7	47.3	54.4	64.0	57.0	43.0	41.2
72.5°	4363.6	361.2	50.9	42.1	37.7	30.7	43.0	52.6	45.6	31.6	29.8
75°	2823.1	184.1	35.1	27.2	20.2	18.4	31.6	39.5	31.6	19.3	16.7
77.5°	1080.2	77.2	19.3	12.3	10.5	8.8	17.5	23.7	13.2	4.4	3.5
80°	207.8	32.4	9.6	6.1	5.3	3.5	2.6	1.8	0.0	0.0	0.0
82.5°	35.9	10.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	0.0	0.0	0.0	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)