

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: P458793

Luminaire Tested: **GALN-SA3B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458793
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-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12669 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

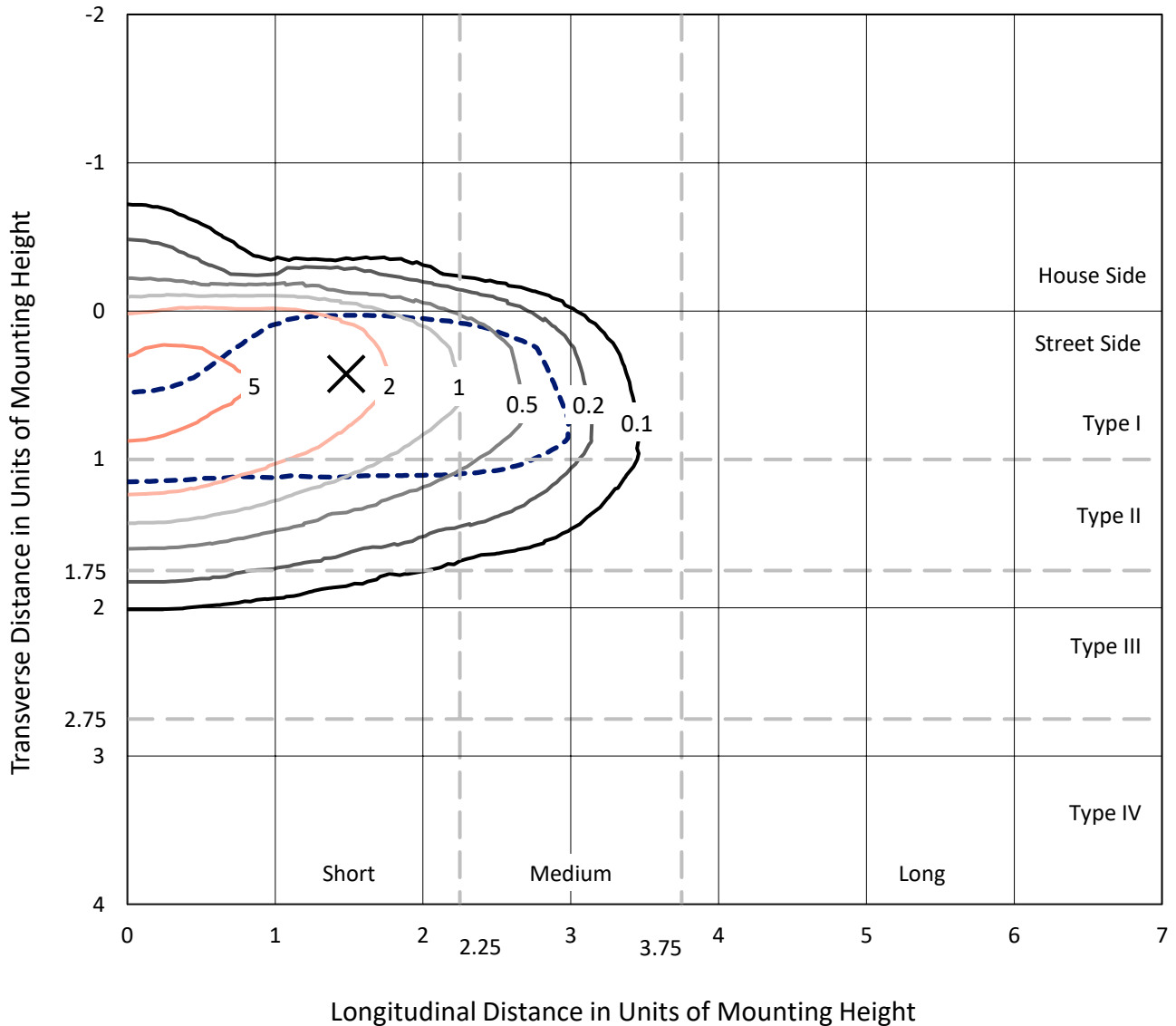
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

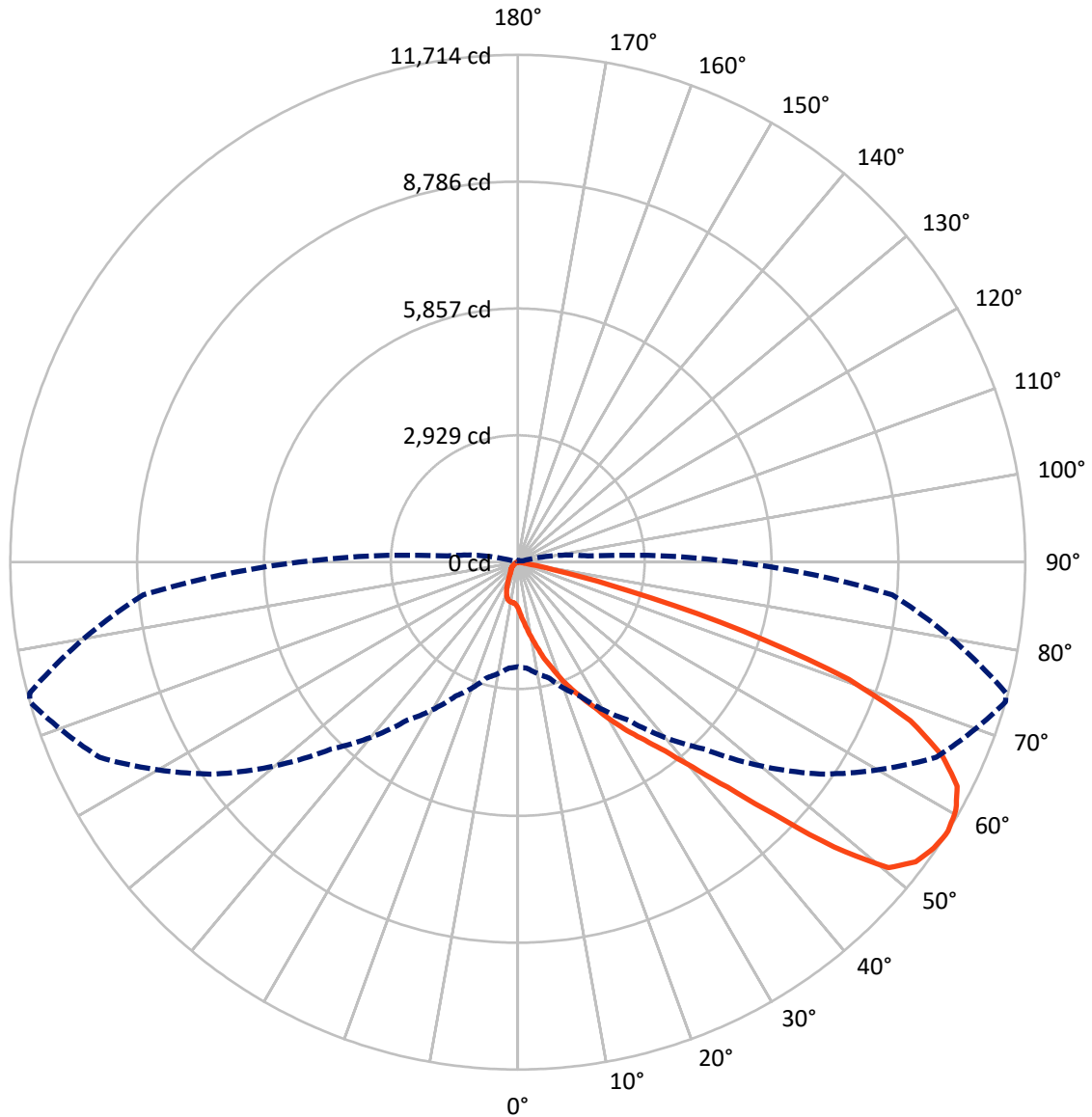
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	730.7	0.0	730.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	11938.3	0.0	11938.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	12669.0	0.0	12669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.0
10°-20°	504.8	4.0
20°-30°	1080.1	8.5
30°-40°	1985.3	15.7
40°-50°	3043.4	24.0
50°-60°	3219.5	25.4
60°-70°	2102.4	16.6
70°-80°	574.5	4.5
80°-90°	30.9	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°	12669.0	100.0
0°-180°	12669.0	100.0

Coefficient of Utilization



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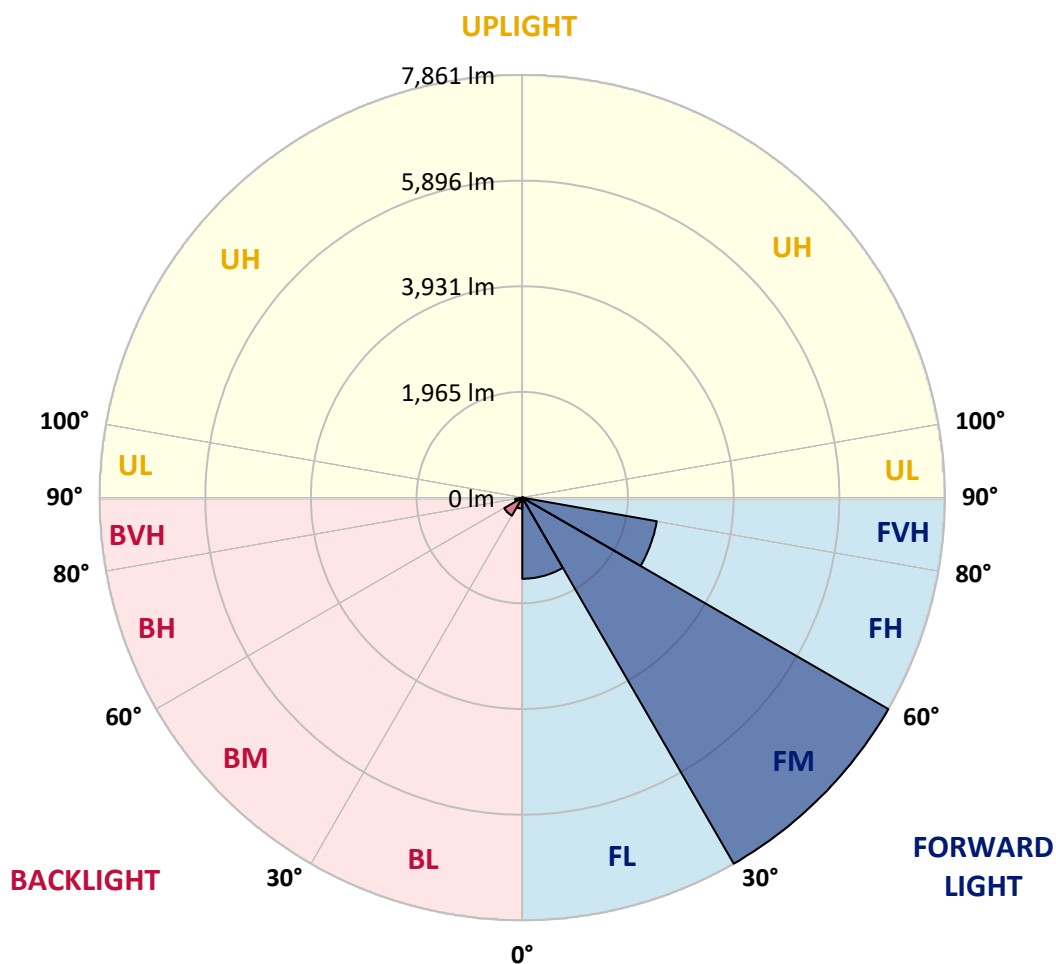
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.9	11.9			
FM (30°-60°)	7861.3	62.1			
FH (60°-80°)	2539.7	20.0			G2/5000
FVH (80°-90°)	28.4	0.2			G1/100
BL (0°-30°)	204.1	1.6	B1/500		
BM (30°-60°)	386.9	3.1	B1/1000		
BH (60°-80°)	137.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0
2.5°	1552.6	1538.6	1510.6	1501.0	1459.9	1396.0	1340.0	1264.8	1205.3	1199.2	1127.5
5°	2079.2	2047.7	2034.6	1971.6	1872.7	1780.0	1620.8	1500.1	1361.0	1350.5	1206.2
7.5°	2586.5	2542.8	2529.6	2470.2	2354.7	2208.6	2002.2	1782.6	1562.2	1542.1	1312.1
10°	2953.9	2960.0	2936.4	2897.0	2803.4	2654.7	2400.2	2100.2	1786.1	1760.8	1431.0
12.5°	3217.2	3216.3	3220.6	3219.8	3169.9	3057.1	2789.4	2443.9	2032.8	1982.9	1567.5
15°	3388.6	3391.2	3404.3	3449.8	3455.1	3385.1	3162.0	2772.8	2318.8	2256.7	1715.3
17.5°	3561.8	3580.2	3601.1	3644.0	3682.5	3654.5	3497.1	3115.7	2577.7	2531.4	1873.6
20°	3847.8	3873.2	3860.9	3887.2	3907.3	3909.9	3788.3	3432.3	2891.8	2813.9	2054.7
22.5°	4305.3	4304.4	4272.9	4225.7	4186.3	4184.6	4074.4	3757.7	3176.9	3101.7	2236.6
25°	4883.5	4886.1	4824.9	4690.1	4592.2	4472.3	4345.5	4042.9	3482.2	3389.5	2428.2
27.5°	5546.5	5529.9	5437.1	5251.7	5057.5	4852.8	4670.0	4374.4	3805.8	3728.9	2647.7
30°	6142.2	6136.0	6027.6	5801.0	5545.6	5340.0	5075.0	4789.9	4224.8	4130.3	2893.5
32.5°	6696.7	6705.5	6555.0	6320.6	6073.9	5836.9	5557.0	5187.0	4635.9	4502.1	3161.2
35°	7129.7	7138.4	6982.7	6787.7	6534.0	6337.2	6070.4	5610.3	5041.8	4928.9	3469.1
37.5°	7360.6	7372.0	7281.9	7134.9	6976.6	6877.8	6629.4	6155.3	5535.1	5466.9	3832.9
40°	7404.3	7417.5	7378.1	7338.7	7330.0	7400.8	7328.2	6797.3	6219.1	6112.4	4375.3
42.5°	7273.1	7290.6	7308.1	7395.6	7574.0	7833.8	8086.6	7668.5	7099.9	6956.5	5038.3
45°	6928.5	6926.8	6995.9	7222.4	7622.1	8176.7	8879.1	8759.3	8300.0	8129.5	5975.1
47.5°	6339.0	6330.2	6479.8	6802.5	7425.3	8239.7	9525.5	10083.6	9831.6	9674.2	6981.9
50°	5440.6	5483.5	5718.8	6169.3	6936.4	8049.0	9724.9	10952.1	11088.6	10921.5	7795.3
52.5°	4388.4	4386.6	4755.7	5367.2	6212.1	7629.1	9585.8	11109.6	11497.1	11369.4	8195.9
55°	3247.8	3270.5	3654.5	4271.2	5271.8	6862.9	9131.9	10947.8	11652.8	11562.7	8460.1
57°	2415.9	2456.2	2764.1	3416.6	4453.1	6104.5	8527.5	10658.2	11714.0	11665.0	8679.7
57.5°	2255.0	2256.7	2556.8	3149.8	4213.4	5813.3	8354.3	10537.5	11712.2	11685.1	8715.5
60°	1388.2	1431.9	1639.2	2129.0	3084.2	4537.1	7193.5	9843.9	11621.3	11660.6	8868.6
62.5°	831.0	849.3	984.0	1283.2	1988.2	3311.6	5886.7	8956.1	11384.2	11504.1	8858.1
65°	534.4	538.8	600.0	776.7	1243.0	2238.4	4536.2	7783.1	10771.1	10991.5	8511.7
67.5°	412.9	419.9	444.3	510.0	720.8	1394.3	3208.4	6531.4	9779.2	10063.4	7672.0
70°	366.5	370.0	378.7	399.7	476.7	787.2	1996.1	5102.1	8109.4	8189.8	6003.9
72.5°	299.1	308.8	335.9	342.9	377.9	491.6	1110.9	3424.5	5448.5	5468.6	3358.9
75°	231.8	233.5	273.8	293.9	318.4	338.5	496.0	1726.7	2617.1	2477.2	1294.6
77.5°	173.2	181.1	199.4	224.8	259.8	242.3	222.2	650.8	812.6	797.7	376.1
80°	111.1	115.5	139.1	168.8	202.1	158.3	125.1	190.7	178.4	183.7	90.1
82.5°	56.0	56.9	89.2	137.3	128.6	79.6	78.7	77.8	66.5	65.6	42.0
85°	6.1	13.1	57.7	78.7	57.7	26.2	36.7	35.9	35.0	35.9	24.5
87.5°	0.9	0.9	9.6	11.4	7.9	8.7	10.5	11.4	14.0	13.1	10.5
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°	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0
2.5°	1092.5	1057.5	992.8	930.7	884.3	854.6	816.1	802.1	782.0	779.4	769.7
5°	1139.7	1073.3	960.4	871.2	799.5	745.2	698.0	658.6	627.2	620.2	623.7
7.5°	1207.1	1108.2	950.8	829.2	729.5	636.8	561.6	515.2	482.0	469.7	471.5
10°	1283.2	1154.6	949.1	784.6	632.4	518.7	436.5	395.4	376.1	369.1	361.3
12.5°	1373.3	1208.0	944.7	715.5	525.7	413.7	355.1	330.6	312.3	307.0	307.0
15°	1474.7	1264.8	923.7	629.8	426.9	342.0	302.6	283.4	277.3	272.0	272.0
17.5°	1580.6	1320.8	879.9	523.9	354.3	293.0	268.5	257.2	248.4	242.3	242.3
20°	1701.3	1375.9	810.0	430.4	299.1	261.5	242.3	229.2	222.2	216.9	215.2
22.5°	1815.9	1420.5	720.8	353.4	260.7	235.3	217.8	203.8	196.8	194.2	194.2
25°	1934.8	1447.6	613.2	292.2	237.9	213.4	194.2	182.8	176.7	174.9	174.1
27.5°	2050.3	1463.4	518.7	255.4	216.9	193.3	174.9	166.2	160.1	158.3	159.2
30°	2190.3	1466.0	426.9	229.2	198.6	174.1	157.4	149.6	146.1	144.3	143.5
32.5°	2332.0	1462.5	358.6	213.4	181.1	157.4	143.5	137.3	134.7	132.1	132.1
35°	2491.1	1444.1	305.3	197.7	164.4	143.5	131.2	126.0	122.5	119.8	119.0
37.5°	2688.8	1434.5	274.7	180.2	149.6	130.3	119.0	113.7	111.1	107.6	106.7
40°	3000.2	1477.4	265.0	164.4	134.7	118.1	107.6	101.5	98.0	94.5	93.6
42.5°	3388.6	1552.6	249.3	148.7	121.6	106.7	96.2	89.2	83.1	78.7	77.0
45°	3891.5	1651.4	224.8	132.1	110.2	94.5	84.8	76.1	68.2	64.7	63.9
47.5°	4419.0	1746.8	202.9	119.0	98.0	84.0	73.5	63.9	56.9	54.2	53.4
50°	4742.6	1766.0	188.9	104.1	85.7	72.6	62.1	53.4	49.0	46.4	46.4
52.5°	4890.5	1735.4	169.7	91.0	74.3	63.9	53.4	46.4	43.7	42.0	41.1
55°	4993.7	1688.2	144.3	78.7	63.9	54.2	47.2	42.0	38.5	36.7	35.9
57°	5054.0	1624.3	125.1	69.1	55.1	47.2	42.0	37.6	34.1	30.6	30.6
57.5°	5056.6	1599.8	119.8	68.2	52.5	45.5	41.1	36.7	32.4	28.9	28.0
60°	4978.8	1431.9	96.2	57.7	42.0	38.5	34.1	28.9	22.7	19.2	18.4
62.5°	4728.6	1218.5	79.6	49.0	34.1	29.7	24.5	21.9	15.7	11.4	11.4
65°	4349.9	988.4	68.2	39.4	28.0	21.9	16.6	15.7	9.6	5.2	4.4
67.5°	3802.3	769.7	57.7	32.4	23.6	15.7	11.4	10.5	5.2	1.7	0.0
70°	2897.0	524.8	48.1	26.2	17.5	11.4	7.9	6.1	3.5	0.9	0.0
72.5°	1669.8	288.7	40.2	20.1	13.1	8.7	6.1	3.5	3.5	0.0	0.0
75°	596.5	124.2	30.6	14.9	10.5	7.0	4.4	1.7	2.6	0.9	0.0
77.5°	189.8	66.5	20.1	11.4	8.7	5.2	3.5	1.7	1.7	0.9	0.0
80°	56.0	35.0	12.2	9.6	6.1	4.4	2.6	0.9	1.7	0.9	0.0
82.5°	30.6	17.5	9.6	7.0	6.1	3.5	2.6	0.9	0.9	0.9	0.0
85°	15.7	10.5	7.9	7.0	6.1	3.5	2.6	0.9	0.0	0.9	0.9
87.5°	8.7	7.9	7.9	7.0	6.1	4.4	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)