

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: P458649

Luminaire Tested: **GALN-SA2A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8731 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

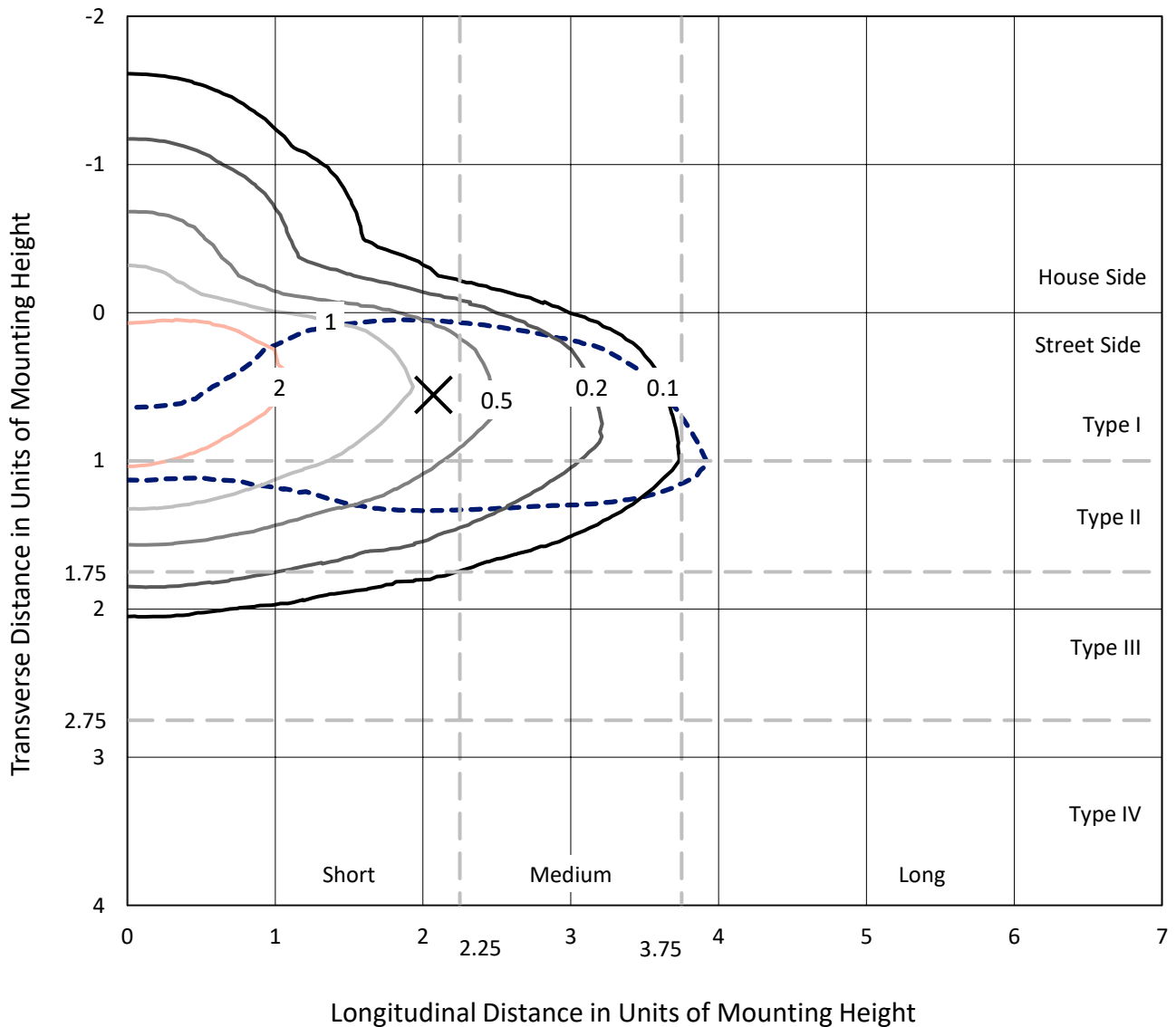
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

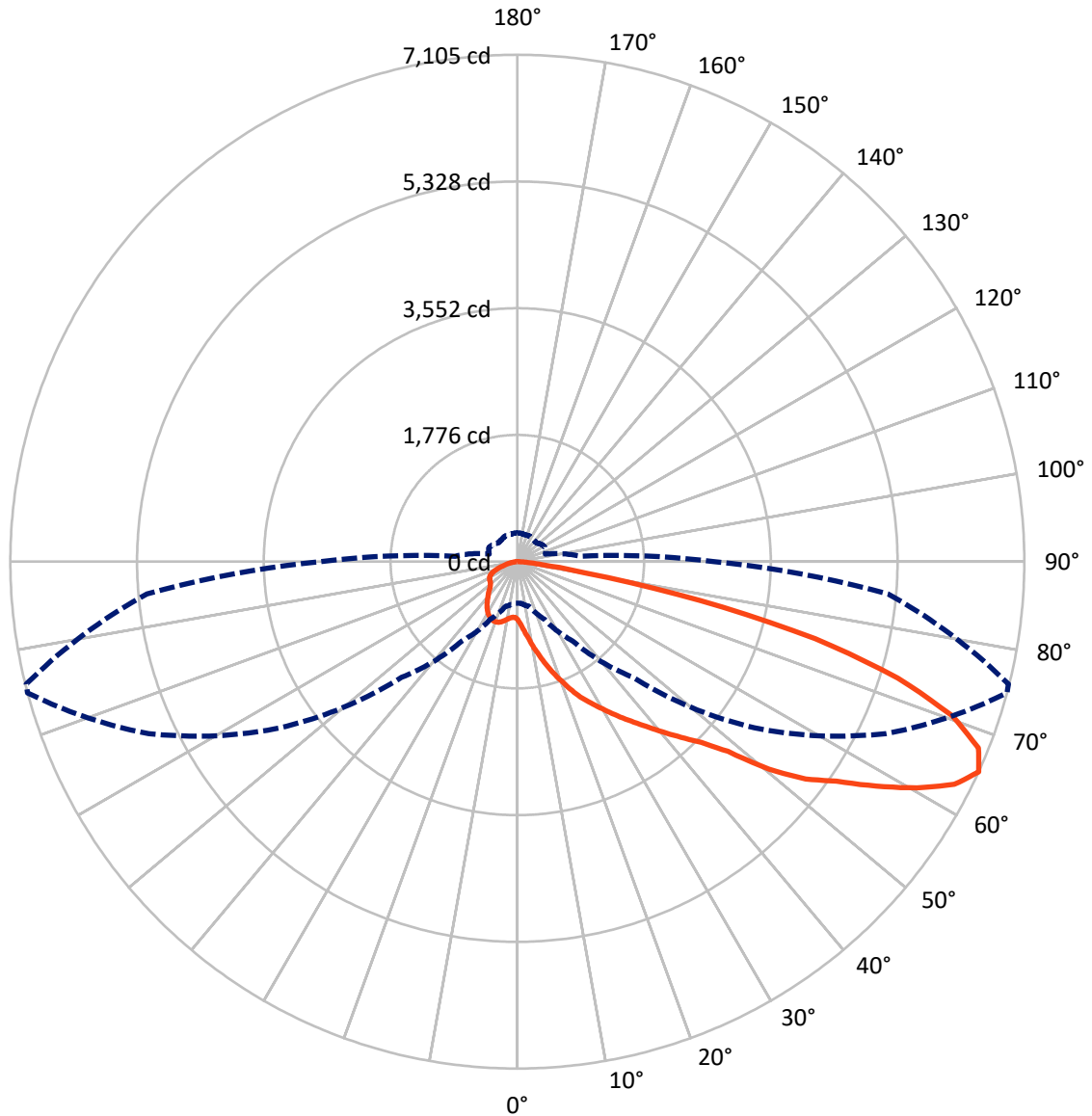
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.8	0.0	1467.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7263.2	0.0	7263.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	8731.0	0.0	8731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.1
10°-20°	386.0	4.4
20°-30°	745.7	8.5
30°-40°	1211.3	13.9
40°-50°	1666.2	19.1
50°-60°	1967.2	22.5
60°-70°	1723.6	19.7
70°-80°	822.9	9.4
80°-90°	109.5	1.3
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°	8731.0	100.0
0°-180°	8731.0	100.0

Coefficient of Utilization



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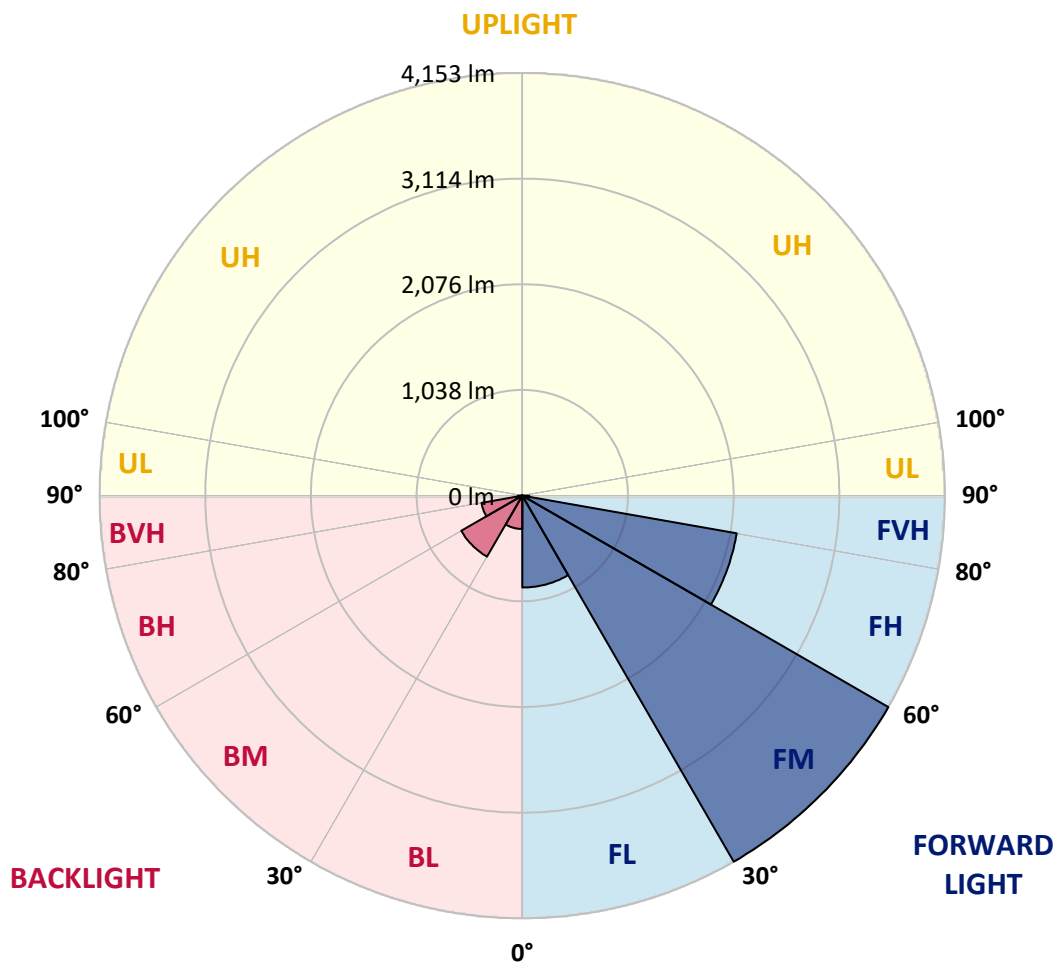
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.6	10.3			
FM (30°-60°)	4152.7	47.6			
FH (60°-80°)	2139.5	24.5			G2/5000
FVH (80°-90°)	68.4	0.8			G1/100
BL (0°-30°)	327.7	3.8	B1/500		
BM (30°-60°)	692.1	7.9	B1/1000		
BH (60°-80°)	407.0	4.7	B1/500		G1/500
BVH (80°-90°)	41.1	0.5			G1/100
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°	75°	76°	85°
0°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	1077.8	1070.7	1063.2	1042.3	1020.1	995.0	959.0	924.4	878.5	877.0	842.9
5°	1376.7	1371.9	1338.3	1318.9	1267.3	1198.6	1140.3	1049.9	966.1	956.1	889.8
7.5°	1651.3	1632.9	1620.1	1585.0	1533.9	1445.8	1333.1	1210.9	1070.7	1057.5	947.6
10°	1858.3	1856.4	1849.8	1819.4	1781.1	1693.5	1568.5	1393.2	1203.3	1177.3	1017.7
12.5°	2013.1	2014.6	2013.6	2013.1	1985.7	1911.3	1775.9	1591.2	1337.4	1318.9	1098.7
15°	2114.9	2129.2	2134.8	2158.5	2160.9	2111.2	1994.7	1782.5	1488.4	1461.0	1185.8
17.5°	2182.2	2189.3	2215.8	2256.1	2288.7	2279.8	2176.0	1959.6	1642.8	1596.9	1276.3
20°	2246.6	2258.9	2279.3	2334.2	2392.0	2418.5	2345.6	2141.0	1795.8	1766.4	1376.2
22.5°	2380.6	2398.1	2405.2	2433.2	2482.4	2529.3	2496.2	2314.8	1963.4	1923.6	1482.3
25°	2607.5	2625.9	2606.0	2599.4	2615.5	2638.7	2631.6	2478.6	2121.6	2064.8	1582.7
27.5°	2903.0	2905.3	2866.5	2829.6	2789.8	2777.9	2756.2	2624.0	2258.9	2211.6	1683.5
30°	3220.3	3208.9	3144.5	3077.7	3010.5	2944.2	2881.7	2764.2	2411.9	2357.4	1782.5
32.5°	3514.8	3508.7	3437.1	3333.4	3219.8	3157.3	3030.8	2905.8	2575.7	2523.2	1884.3
35°	3735.5	3744.5	3665.9	3552.7	3428.6	3373.2	3213.6	3054.5	2745.3	2688.0	1995.1
37.5°	3892.2	3887.5	3817.9	3719.9	3610.9	3562.6	3427.2	3216.9	2927.6	2872.7	2116.4
40°	3948.1	3945.3	3893.7	3822.2	3753.0	3736.0	3650.7	3392.2	3136.4	3072.0	2262.2
42.5°	3912.6	3918.8	3884.7	3865.3	3852.5	3864.8	3872.8	3621.8	3364.2	3305.0	2420.4
45°	3803.7	3800.4	3795.6	3827.4	3899.4	3980.3	4092.6	3838.7	3611.9	3564.5	2632.6
47.5°	3609.1	3632.7	3644.6	3732.2	3889.4	4081.2	4345.5	4129.5	3971.3	3930.1	2956.0
50°	3336.8	3355.7	3425.8	3581.6	3816.0	4119.1	4592.7	4605.0	4570.9	4493.7	3307.4
52.5°	2911.5	2940.9	3085.3	3370.8	3665.4	4103.5	4742.3	5012.7	5057.7	4999.9	3653.6
55°	2435.6	2476.8	2629.2	3003.8	3458.0	4018.2	4845.5	5249.0	5428.5	5375.0	3987.0
57.5°	1969.6	2013.1	2169.9	2532.6	3096.2	3829.7	4913.3	5512.3	5933.3	5863.7	4401.8
60°	1476.1	1521.6	1656.1	2029.7	2580.9	3461.3	4867.3	5740.6	6437.7	6407.8	4817.1
62.5°	952.3	1002.5	1119.5	1428.8	1983.8	2957.9	4621.5	5866.5	6874.3	6838.3	5120.2
65°	580.1	585.8	650.2	887.0	1357.7	2290.2	4059.4	5699.4	7104.5	7093.6	5212.6
67.5°	375.1	384.1	413.4	531.3	814.1	1590.7	3245.8	5147.7	6970.0	6966.2	5021.7
70°	316.8	319.7	332.9	358.5	473.1	964.7	2279.3	4268.3	6459.0	6459.0	4562.8
72.5°	283.2	287.0	291.7	299.8	337.7	546.5	1360.1	3322.5	5576.7	5613.7	3883.7
75°	257.1	256.2	259.0	260.5	287.9	357.1	703.2	2457.3	4314.2	4240.3	2812.5
77.5°	220.2	221.6	220.2	226.4	254.3	271.8	357.1	1649.0	2614.6	2518.9	1411.7
80°	180.9	183.3	185.6	189.4	217.4	206.5	214.5	751.6	967.0	946.7	436.2
82.5°	135.9	139.2	143.0	152.0	171.0	136.4	135.4	321.1	349.0	319.7	160.5
85°	54.9	64.9	98.0	107.0	107.5	74.8	83.3	134.0	142.5	139.2	63.0
87.5°	12.8	15.2	31.7	47.8	44.0	27.9	30.8	43.6	49.7	45.9	21.3
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°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	827.3	810.7	782.3	760.5	744.9	731.2	722.7	717.5	715.6	715.1	715.6
5°	855.3	825.9	780.9	752.5	736.9	727.9	722.7	722.2	722.7	723.1	721.7
7.5°	893.6	851.5	792.8	766.2	754.4	747.8	745.4	744.4	744.9	744.4	744.4
10°	944.8	887.0	816.0	788.5	778.5	771.0	767.2	764.8	762.9	761.0	760.1
12.5°	1001.1	926.3	841.1	814.5	800.3	788.5	780.0	773.8	769.5	765.3	764.3
15°	1064.1	968.0	869.0	832.1	811.7	794.2	779.5	769.5	762.0	755.8	755.3
17.5°	1124.2	1007.3	887.9	840.1	810.3	785.6	766.2	752.5	743.0	735.0	734.0
20°	1188.7	1044.7	896.5	834.9	796.1	766.2	740.7	724.1	713.2	704.2	702.8
22.5°	1253.5	1076.4	895.5	818.3	771.4	736.4	709.4	691.9	679.1	670.1	666.8
25°	1315.6	1102.0	883.7	791.8	737.3	700.9	673.4	657.3	645.9	635.1	635.1
27.5°	1371.4	1117.1	861.4	759.6	702.3	663.9	642.2	627.5	617.1	610.0	605.7
30°	1426.4	1124.2	831.1	718.9	665.4	632.7	615.2	606.6	597.2	589.1	588.2
32.5°	1475.6	1122.8	793.2	679.1	630.3	607.1	600.0	593.4	583.4	572.1	569.2
35°	1523.5	1113.4	748.2	635.5	601.0	592.0	593.9	584.4	566.4	552.2	549.8
37.5°	1575.6	1096.3	699.0	600.0	576.3	584.9	589.6	568.8	539.4	517.1	511.9
40°	1635.7	1076.9	647.8	564.5	556.9	578.2	578.2	539.9	499.6	485.9	482.1
42.5°	1706.3	1060.8	605.2	534.7	540.8	562.1	559.8	501.5	484.9	477.8	475.9
45°	1818.0	1055.1	561.2	508.6	527.6	543.2	523.8	488.2	478.8	473.1	471.2
47.5°	1994.7	1061.7	522.3	489.2	512.4	524.2	483.5	479.2	472.6	464.6	463.6
50°	2158.5	1055.6	494.9	478.3	499.1	501.5	466.9	468.4	464.6	455.6	453.7
52.5°	2292.5	1036.2	477.4	472.6	487.8	461.7	451.3	456.5	455.1	443.7	441.8
55°	2439.8	1024.3	468.8	472.6	480.2	427.2	436.6	444.2	442.3	434.3	433.8
57.5°	2618.4	1026.7	462.7	474.0	472.6	409.6	421.9	430.9	430.5	428.1	428.1
60°	2801.1	1027.6	453.2	473.6	463.6	395.9	406.8	419.6	420.5	421.9	421.9
62.5°	2861.8	986.4	434.7	465.0	443.7	382.6	392.6	410.1	409.2	413.0	413.4
65°	2748.6	872.3	407.3	445.6	418.2	373.2	381.7	397.8	392.6	402.5	404.4
67.5°	2501.9	721.7	364.6	410.6	389.7	363.2	374.6	380.7	371.3	390.7	391.2
70°	2162.3	563.5	310.7	360.9	357.5	352.8	368.9	359.4	346.2	369.9	365.1
72.5°	1808.1	430.5	248.1	295.0	314.4	337.2	359.0	332.0	313.5	320.6	312.1
75°	1358.2	318.2	199.4	231.1	261.9	314.9	350.0	298.8	270.4	263.8	261.9
77.5°	692.4	207.9	149.2	172.9	196.5	284.6	337.7	260.0	224.0	213.6	208.8
80°	247.2	129.3	105.1	119.3	132.6	244.8	295.0	215.0	173.8	171.9	173.8
82.5°	114.6	83.3	70.6	78.1	78.6	163.4	224.9	160.5	132.1	200.8	169.5
85°	49.3	41.7	39.8	38.8	36.0	72.9	126.4	86.2	134.5	60.1	55.4
87.5°	14.7	16.6	14.7	10.9	8.1	8.1	12.8	4.7	3.3	2.4	2.4
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)