

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: P522626

Luminaire Tested: **GALN-SA1B-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5762 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

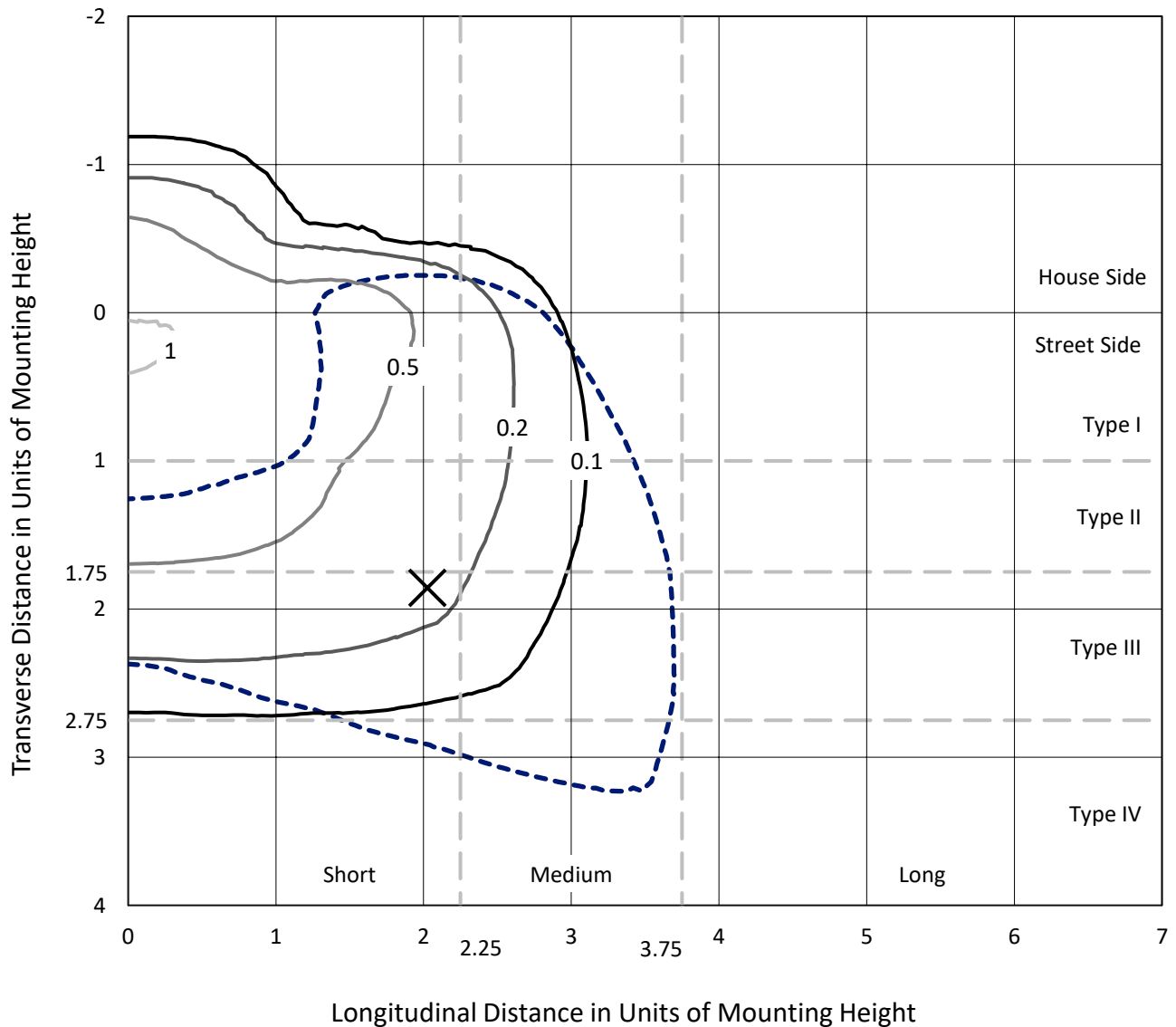
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

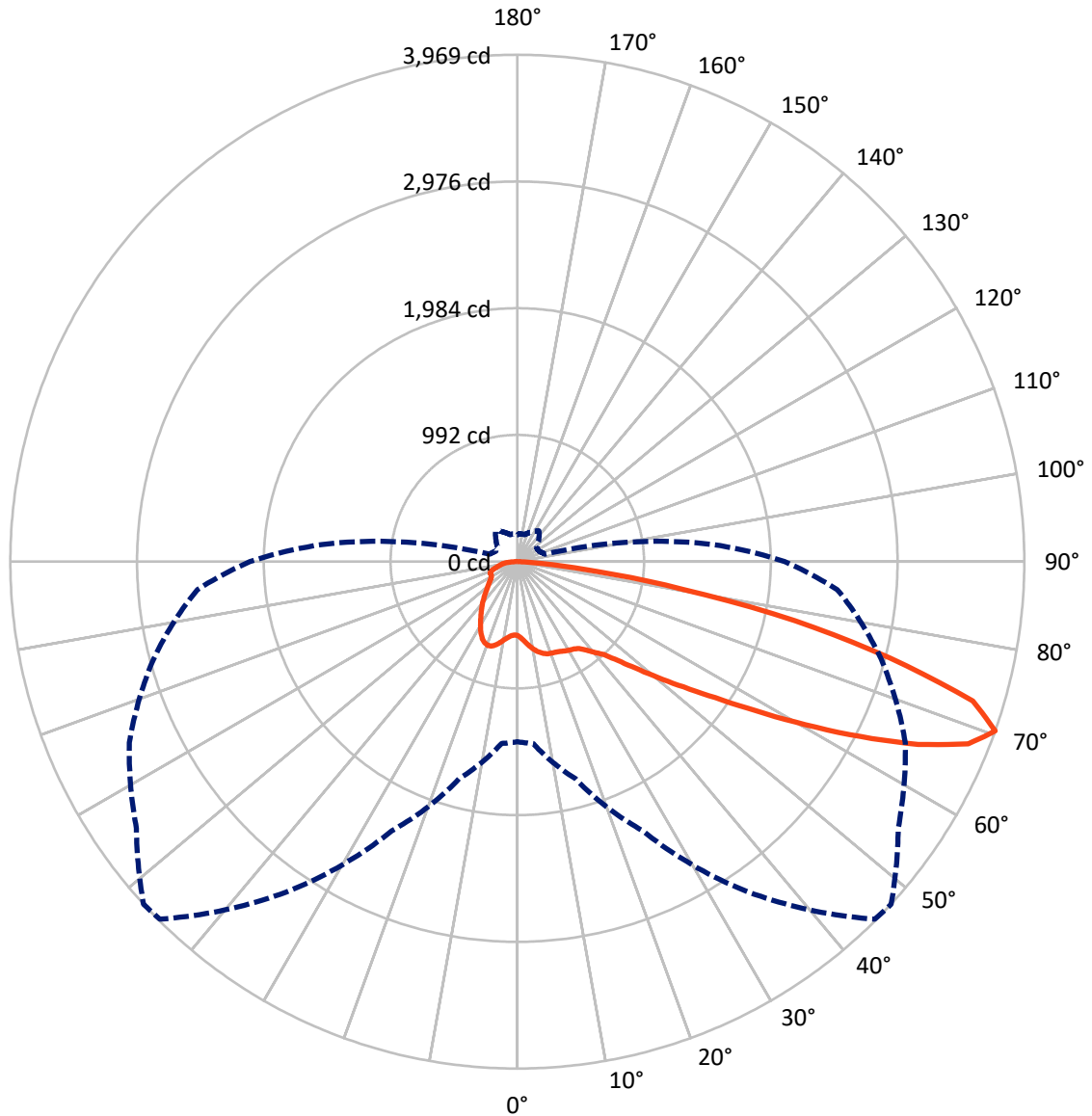
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1304.6	0.0	1304.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4457.4	0.0	4457.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5762.0	0.0	5762.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	1.0
10°-20°	199.3	3.5
20°-30°	331.5	5.8
30°-40°	469.8	8.2
40°-50°	693.6	12.0
50°-60°	1201.3	20.8
60°-70°	1696.9	29.4
70°-80°	975.5	16.9
80°-90°	134.6	2.3
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°	5762.0	100.0
0°-180°	5762.0	100.0

**Coefficient of Utilization**



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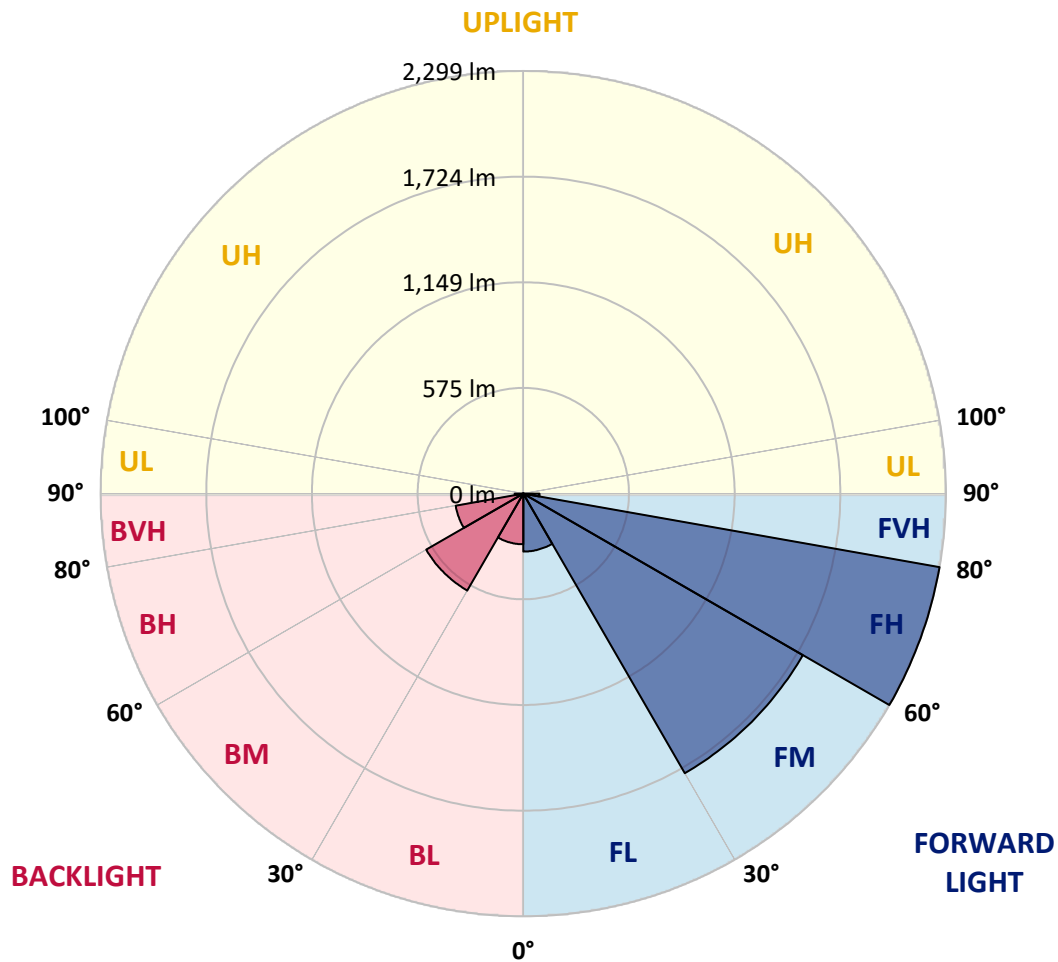
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.1	5.5			
FM (30°-60°)	1755.6	30.5			
FH (60°-80°)	2298.8	39.9			G2/5000
FVH (80°-90°)	87.9	1.5			G1/100
BL (0°-30°)	275.4	4.8	B1/500		
BM (30°-60°)	609.1	10.6	B1/1000		
BH (60°-80°)	373.5	6.5	B1/500		G1/500
BVH (80°-90°)	46.7	0.8			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4
2.5°	615.7	613.6	613.3	608.7	606.2	601.6	599.7	595.4	590.2	584.9	580.0
5°	664.2	664.2	662.0	655.5	645.3	634.9	630.2	621.9	607.1	595.1	584.9
7.5°	713.8	714.4	710.1	700.5	686.0	669.1	664.8	652.4	631.5	613.9	598.8
10°	756.7	756.7	750.8	737.8	719.7	701.2	696.8	683.0	659.5	637.6	617.9
12.5°	789.3	789.3	781.6	764.7	744.9	728.3	723.4	710.1	688.2	663.8	638.9
15°	810.6	809.1	800.4	781.3	762.2	747.7	744.3	733.2	713.2	688.5	660.5
17.5°	811.5	810.9	802.6	786.6	769.9	760.0	757.9	750.5	734.8	711.3	681.7
20°	793.7	794.9	789.3	777.9	769.9	765.6	764.7	762.2	751.1	729.2	699.6
22.5°	774.5	776.7	771.5	765.3	764.7	769.0	769.6	770.2	763.1	741.9	714.7
25°	769.9	771.5	766.2	760.7	764.1	775.5	777.9	780.4	774.8	757.0	732.6
27.5°	793.3	792.1	781.9	769.9	772.1	787.5	790.9	793.7	790.9	775.5	754.8
30°	859.6	855.6	835.3	800.1	789.0	799.8	803.2	810.9	810.9	799.5	778.9
32.5°	970.6	962.9	925.6	856.6	818.0	811.5	814.9	827.6	834.0	825.1	802.6
35°	1105.4	1097.4	1044.0	951.2	871.0	835.0	834.0	848.2	865.5	845.5	816.2
37.5°	1240.7	1232.4	1168.3	1064.1	948.4	884.3	878.8	883.7	891.1	854.4	835.0
40°	1376.1	1366.2	1310.1	1190.2	1043.1	949.7	935.2	913.0	909.9	883.7	871.4
42.5°	1510.2	1501.3	1472.9	1331.7	1156.6	1013.5	991.3	953.1	964.8	949.1	938.3
45°	1645.6	1646.2	1616.0	1490.5	1293.5	1131.3	1101.4	1041.6	1069.3	1063.4	1069.6
47.5°	1765.5	1764.0	1753.2	1644.7	1463.4	1283.0	1244.4	1175.1	1222.5	1244.1	1291.3
50°	1881.8	1880.8	1881.5	1819.5	1660.7	1463.4	1420.8	1348.0	1455.0	1530.0	1614.4
52.5°	2048.3	2053.5	2016.2	1999.9	1900.6	1676.4	1629.5	1554.3	1729.8	1847.8	2012.8
55°	2215.4	2211.1	2181.8	2198.7	2151.6	1928.6	1879.6	1819.8	2035.6	2164.8	2412.7
57.5°	2313.7	2315.3	2345.2	2428.1	2461.4	2243.1	2198.7	2152.5	2379.4	2471.0	2768.5
60°	2402.2	2409.3	2495.4	2652.0	2742.3	2629.5	2590.0	2545.0	2694.8	2731.2	3077.5
62.5°	2430.0	2451.9	2602.0	2836.4	3016.1	3065.5	3016.4	2917.2	2995.2	2981.0	3286.8
65°	2291.5	2321.5	2590.6	2905.4	3260.6	3479.2	3448.1	3263.7	3251.1	3165.7	3321.1
67.5°	1927.1	1957.0	2302.6	2760.5	3361.8	3837.5	3806.4	3516.6	3406.5	3182.9	3062.1
70°	1410.0	1428.8	1759.4	2324.2	3158.6	3957.8	3968.6	3639.9	3351.0	2948.3	2514.2
72.5°	812.5	854.1	1085.6	1635.1	2580.5	3653.8	3728.7	3383.4	3000.1	2459.6	1757.8
75°	349.3	350.3	502.0	901.9	1747.6	2936.9	3009.3	2804.6	2356.0	1700.8	938.6
77.5°	166.2	169.3	220.8	402.7	962.0	2029.1	2224.6	1981.4	1506.8	817.1	354.6
80°	107.9	110.1	135.1	199.8	471.8	1176.6	1312.9	1143.0	664.8	292.0	152.9
82.5°	65.4	66.0	90.3	122.1	259.6	532.8	628.1	496.1	283.7	174.8	90.0
85°	39.8	40.1	54.9	75.5	157.6	184.1	189.0	187.5	166.5	114.4	48.1
87.5°	19.1	19.7	28.4	35.8	62.0	57.0	54.0	62.6	78.6	61.7	20.7
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°	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4
2.5°	577.8	576.9	574.7	573.8	573.2	573.5	573.2	573.2	573.5	573.5	573.5
5°	580.6	579.1	575.7	575.7	577.5	581.8	585.8	588.9	592.3	592.0	592.0
7.5°	592.6	589.8	585.8	587.1	591.7	598.5	605.6	612.4	619.1	619.8	619.4
10°	610.2	607.4	603.1	604.6	612.0	622.2	631.2	641.0	648.4	650.6	650.0
12.5°	630.2	624.7	621.0	625.3	637.0	650.6	659.2	666.6	671.9	674.9	673.7
15°	650.6	645.3	641.0	650.0	664.2	676.8	681.1	682.3	683.3	686.4	685.7
17.5°	670.3	663.2	661.7	673.4	687.0	692.5	690.1	684.8	680.8	683.3	683.0
20°	687.9	682.3	681.7	693.4	698.7	693.4	683.0	673.7	666.6	667.2	666.9
22.5°	704.5	700.2	700.8	705.8	697.5	679.6	662.3	649.7	642.0	643.5	644.4
25°	723.0	718.7	720.3	712.3	684.8	653.7	628.7	617.9	614.8	617.9	620.1
27.5°	747.1	744.3	743.4	712.6	662.3	615.4	587.1	583.1	585.8	592.6	596.0
30°	773.0	773.0	768.1	707.3	631.5	569.5	544.8	545.4	555.0	564.6	568.0
32.5°	798.0	803.2	787.8	693.1	591.7	524.8	506.0	506.6	514.9	526.6	529.7
35°	818.6	833.7	804.8	667.2	544.8	487.2	473.0	464.7	465.0	473.9	476.4
37.5°	847.0	875.1	814.6	628.7	494.9	455.1	439.1	424.6	415.0	411.3	411.3
40°	896.3	937.6	817.1	571.7	447.7	424.6	401.8	384.5	366.0	349.3	346.3
42.5°	979.9	1032.0	812.2	506.0	405.2	391.0	368.8	347.5	321.9	298.5	296.6
45°	1127.9	1154.7	798.9	437.8	367.2	358.6	337.0	313.9	286.8	265.8	264.2
47.5°	1365.0	1327.1	781.3	377.4	332.7	330.2	313.6	286.8	259.6	245.1	243.6
50°	1711.3	1598.4	778.9	333.6	304.9	306.2	292.6	267.9	244.2	232.2	230.3
52.5°	2128.1	1926.2	795.2	302.8	280.6	285.2	278.4	255.6	234.6	224.5	222.6
55°	2532.7	2220.9	805.1	278.7	257.8	266.4	267.3	248.2	229.1	218.9	217.7
57.5°	2861.0	2442.9	761.3	256.8	238.0	251.3	258.1	243.9	226.3	218.6	217.4
60°	3089.5	2547.8	636.7	237.4	223.5	239.3	254.7	244.2	233.1	234.0	234.6
62.5°	3162.3	2501.2	477.6	222.9	213.7	235.3	260.2	256.8	245.4	252.5	253.8
65°	3041.7	2308.8	346.3	211.5	205.0	238.0	276.9	266.1	241.1	246.4	246.4
67.5°	2638.1	1989.1	269.5	201.0	195.2	243.3	293.5	265.2	230.9	237.1	231.6
70°	2092.7	1538.6	224.5	189.3	184.7	235.6	295.1	255.6	218.9	220.2	209.7
72.5°	1388.7	1011.6	193.0	178.2	168.7	211.8	282.4	243.3	207.2	200.1	189.6
75°	680.5	504.4	168.4	164.3	147.7	184.4	265.2	231.6	194.6	183.5	177.6
77.5°	263.6	214.6	143.7	146.8	128.6	162.5	242.4	214.9	177.9	162.8	158.2
80°	128.0	121.8	117.8	122.4	105.8	138.4	221.4	200.4	162.5	145.8	139.1
82.5°	79.6	75.2	90.3	95.3	81.4	126.4	210.0	188.1	143.1	120.9	115.3
85°	40.4	43.2	60.4	65.1	58.3	100.5	173.0	141.2	103.3	85.7	86.3
87.5°	15.4	20.7	31.8	34.2	31.1	53.0	95.3	82.3	66.3	45.0	41.6
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)