

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: P651197

Luminaire Tested: **GALN-SA1D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5784.4 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

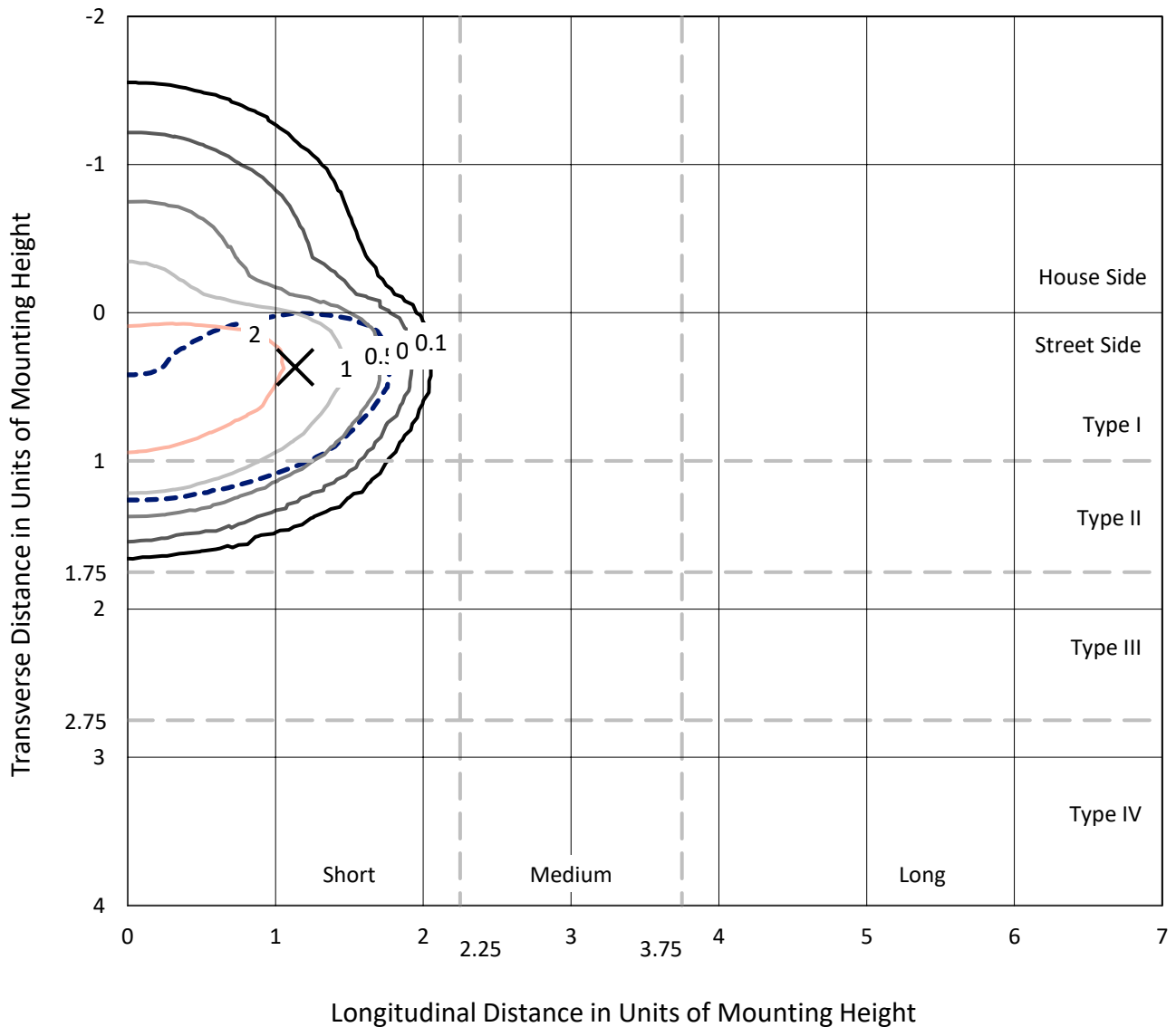
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

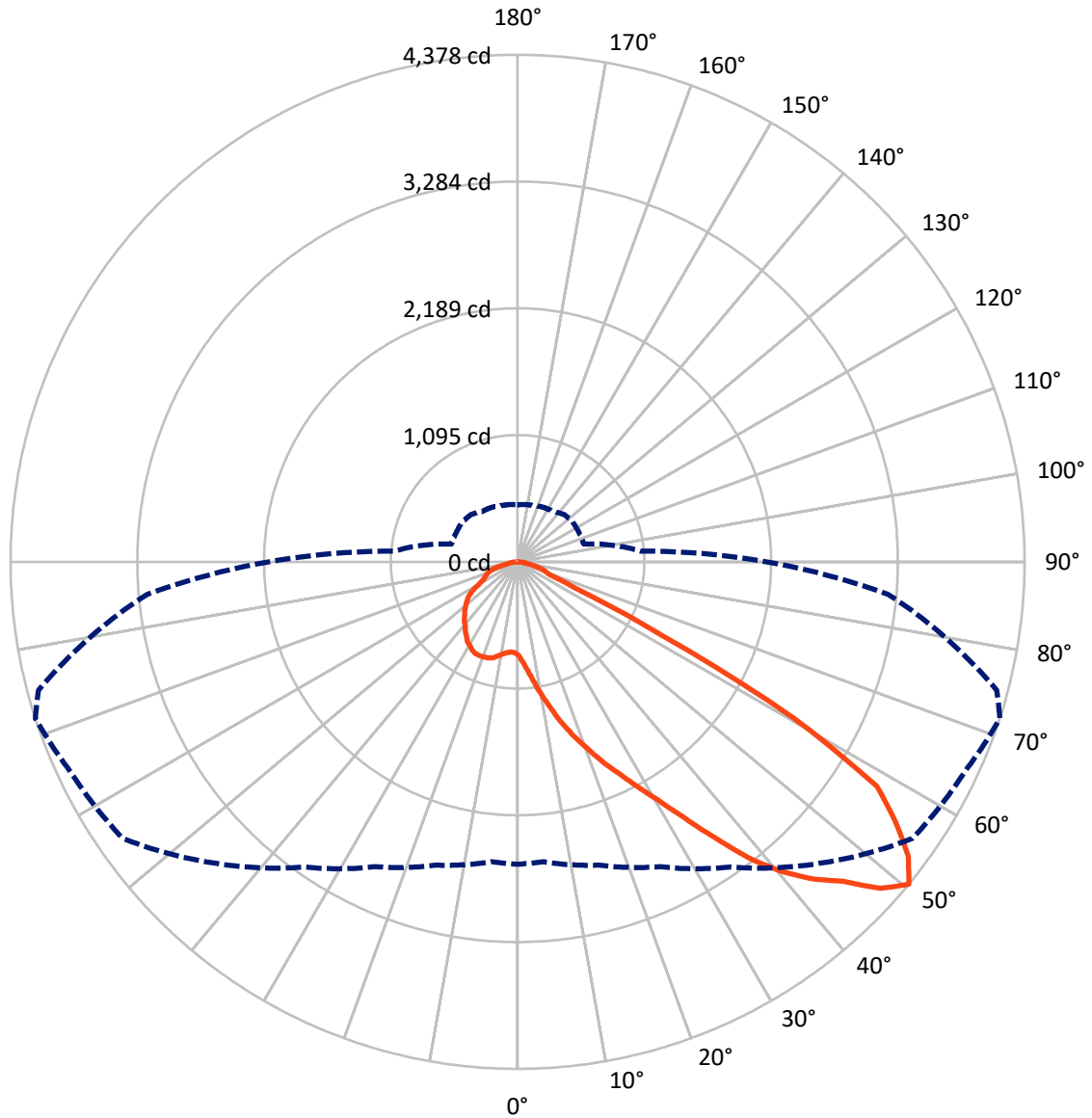
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1325.2	0.0	1325.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4459.2	0.0	4459.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5784.4	0.0	5784.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.6
10°-20°	354.1	6.1
20°-30°	686.5	11.9
30°-40°	1137.4	19.7
40°-50°	1591.4	27.5
50°-60°	1342.6	23.2
60°-70°	409.2	7.1
70°-80°	143.6	2.5
80°-90°	25.0	0.4
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°	5784.4	100.0
0°-180°	5784.4	100.0

**Coefficient of Utilization**



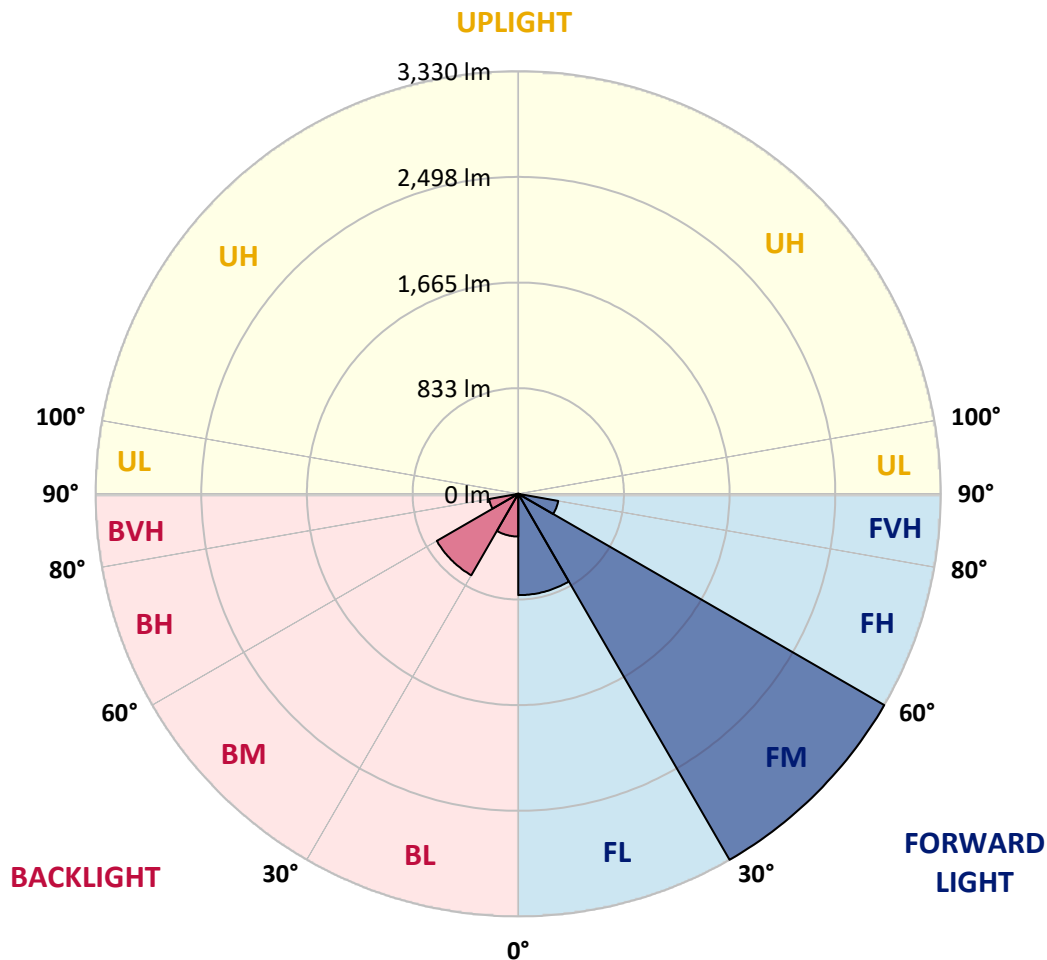
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	13.8			
FM (30°-60°)	3330.2	57.6			
FH (60°-80°)	319.3	5.5			G0/660
FVH (80°-90°)	11.2	0.2			G1/100
BL (0°-30°)	336.9	5.8	B1/500		
BM (30°-60°)	741.1	12.8	B1/1000		
BH (60°-80°)	233.5	4.0	B1/500		G1/500
BVH (80°-90°)	13.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3
2.5°	1035.7	1029.3	1010.0	1003.5	980.6	939.1	924.8	882.5	864.6	848.1	828.9
5°	1309.9	1279.7	1277.6	1241.1	1188.2	1157.4	1065.8	1004.2	947.6	919.0	866.1
7.5°	1484.5	1485.2	1485.2	1455.2	1413.0	1334.9	1252.6	1141.7	1056.5	1014.2	924.1
10°	1650.5	1636.2	1628.3	1625.5	1596.9	1521.0	1433.0	1295.6	1178.8	1129.5	967.7
12.5°	1768.0	1755.8	1773.7	1764.3	1743.6	1694.2	1611.2	1454.4	1308.4	1241.8	1037.9
15°	1823.8	1832.4	1846.7	1872.5	1863.2	1844.6	1752.9	1617.7	1448.0	1372.8	1100.1
17.5°	1909.7	1886.0	1903.2	1935.4	1961.2	1952.6	1900.3	1735.7	1586.1	1493.8	1183.9
20°	1969.8	1956.2	1964.7	2002.0	2021.3	2070.0	2042.8	1890.3	1718.6	1621.2	1282.7
22.5°	2141.6	2121.5	2093.6	2099.3	2106.5	2140.8	2147.3	2059.9	1872.5	1769.4	1376.4
25°	2353.5	2334.9	2301.9	2268.3	2247.5	2241.1	2263.2	2193.1	2019.9	1913.3	1477.3
27.5°	2586.7	2555.3	2534.5	2465.1	2409.3	2400.7	2390.0	2352.0	2194.5	2079.3	1591.2
30°	2813.6	2788.6	2760.8	2649.7	2591.8	2582.5	2529.6	2540.2	2384.2	2256.1	1720.0
32.5°	2985.5	2987.6	2923.9	2840.1	2785.7	2736.4	2717.0	2747.8	2627.6	2524.5	1863.8
35°	3124.3	3130.8	3069.9	2994.0	2935.3	2969.7	2961.2	2975.5	2918.2	2792.2	2031.4
37.5°	3259.6	3227.4	3162.2	3125.7	3095.0	3151.5	3224.6	3236.7	3247.4	3099.3	2226.0
40°	3281.8	3284.7	3246.7	3272.5	3233.8	3319.0	3488.6	3472.9	3516.6	3387.0	2437.2
42.5°	3250.3	3256.8	3271.7	3308.2	3401.3	3503.7	3755.7	3691.2	3744.2	3628.9	2642.6
45°	3198.7	3172.3	3190.9	3329.8	3490.8	3718.4	3999.7	3949.6	3932.4	3835.8	2887.4
47.5°	2952.5	2979.7	3037.7	3208.8	3450.7	3755.7	4173.0	4161.4	4213.0	4145.0	3110.0
50°	2611.1	2600.4	2712.1	2904.6	3216.7	3682.7	4163.6	4267.4	4378.3	4283.9	3209.5
52.5°	1955.5	2012.8	2108.6	2347.7	2793.0	3284.7	3960.4	4133.5	4223.8	4203.7	3129.4
55°	1236.1	1253.3	1311.3	1595.5	1996.3	2636.2	3394.9	3796.4	3957.5	4032.6	3055.6
57.5°	600.6	568.3	639.2	867.5	1153.1	1772.9	2618.3	3306.8	3656.8	3792.8	2895.3
60°	313.5	325.6	353.6	435.2	596.3	920.5	1632.0	2203.8	2738.5	2947.5	2194.5
62.5°	259.8	264.2	282.7	323.5	396.5	529.7	833.2	1074.4	1396.5	1584.7	1248.3
65°	220.4	222.6	242.6	269.9	316.4	372.9	428.7	448.8	543.3	557.6	443.8
67.5°	183.9	186.1	207.6	233.4	263.4	278.5	292.8	291.3	302.1	297.8	297.0
70°	141.7	143.9	166.1	193.3	208.3	199.7	244.1	254.1	258.4	262.0	267.7
72.5°	102.3	106.6	123.8	143.1	135.3	155.3	201.2	216.1	221.9	224.0	231.2
75°	74.4	75.9	80.1	74.4	85.9	108.1	141.7	160.3	167.5	169.6	180.4
77.5°	33.0	33.6	34.4	43.0	55.1	67.3	84.4	99.5	109.5	112.4	115.2
80°	17.2	17.9	22.2	29.4	39.4	49.4	61.6	70.1	76.6	77.3	80.1
82.5°	10.8	11.4	15.7	20.8	27.9	36.5	45.1	52.2	57.3	57.9	58.7
85°	5.0	6.5	9.3	12.9	18.6	23.6	24.3	20.8	22.2	22.9	21.4
87.5°	1.4	2.2	2.9	2.2	2.9	2.9	3.6	4.3	4.3	4.3	5.0
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°	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3	805.3
2.5°	818.1	811.6	786.6	777.3	752.9	757.3	744.4	743.7	740.8	740.1	739.4
5°	838.1	818.1	788.1	765.1	751.5	750.1	740.8	740.8	743.7	745.8	740.8
7.5°	871.1	848.1	797.4	775.9	763.7	761.6	755.1	750.1	756.6	754.4	748.7
10°	909.0	868.9	815.3	796.7	776.6	771.6	771.6	773.7	763.0	766.6	760.9
12.5°	951.3	897.6	838.1	816.7	793.1	790.2	788.8	773.0	778.8	775.9	761.6
15°	1004.9	930.5	867.5	831.0	811.0	798.1	779.4	776.6	773.0	765.9	759.4
17.5°	1062.9	966.3	881.1	835.3	805.3	795.9	781.6	766.6	755.9	757.3	752.3
20°	1112.3	999.2	886.1	839.6	801.0	783.1	760.9	751.5	740.1	739.4	738.7
22.5°	1171.0	1043.6	893.3	828.1	788.1	769.4	754.4	738.0	730.1	720.1	725.1
25°	1241.1	1060.8	894.7	821.7	778.8	745.8	738.0	720.1	717.2	702.9	705.8
27.5°	1291.9	1070.1	883.2	801.6	757.3	732.3	717.9	705.0	700.0	689.3	686.4
30°	1360.0	1084.4	858.9	776.6	735.8	707.9	699.3	696.4	682.1	670.7	669.3
32.5°	1437.3	1093.7	843.2	750.8	713.6	692.1	696.4	682.8	665.0	654.9	652.0
35°	1498.8	1097.3	803.8	721.5	698.6	685.0	679.9	677.1	651.4	642.0	634.9
37.5°	1592.6	1089.4	770.9	700.7	682.1	677.1	672.8	653.5	624.2	610.6	600.6
40°	1702.1	1087.2	728.6	671.4	666.4	672.1	659.3	629.2	588.4	573.3	566.2
42.5°	1807.3	1102.3	702.2	655.6	649.2	651.4	633.4	588.4	568.3	559.8	548.2
45°	1983.4	1133.8	658.5	631.3	628.5	627.0	605.5	558.3	546.8	536.1	534.0
47.5°	2142.3	1113.0	630.6	606.3	609.1	601.2	555.4	540.4	527.6	516.8	513.2
50°	2151.6	1063.6	591.2	586.9	587.6	574.1	530.4	520.3	503.9	496.8	491.7
52.5°	2102.9	982.7	554.7	556.2	558.3	536.1	499.6	492.4	478.9	468.9	466.0
55°	1966.2	856.8	518.9	524.6	530.4	488.1	476.7	458.8	448.1	433.8	434.5
57.5°	1732.1	690.0	468.9	478.1	490.3	443.8	435.2	413.0	397.3	385.8	384.3
60°	1161.0	491.0	393.7	397.3	424.5	405.9	405.1	382.9	361.5	351.5	345.7
62.5°	685.0	375.1	340.0	336.4	335.7	346.4	364.3	356.4	328.6	309.2	315.0
65°	358.6	324.2	316.4	304.2	297.0	294.2	307.8	311.3	292.8	272.0	270.5
67.5°	301.3	301.3	294.9	290.6	280.6	268.4	259.8	248.3	245.5	239.8	232.6
70°	274.2	281.3	279.1	269.1	260.5	246.9	224.7	206.1	188.2	181.8	186.1
72.5°	239.1	246.2	246.2	241.2	229.8	209.0	187.5	166.1	151.0	139.6	138.2
75°	183.9	187.5	196.1	190.4	175.3	162.5	140.3	118.1	103.8	93.0	90.9
77.5°	117.4	123.1	123.1	122.4	111.7	99.5	85.2	69.5	58.7	50.8	48.7
80°	78.0	81.6	84.4	81.6	74.4	65.1	54.4	43.6	35.8	29.4	27.9
82.5°	57.3	61.6	63.7	60.8	53.7	46.5	38.7	30.8	22.9	17.9	16.5
85°	22.2	22.9	25.7	30.8	30.0	29.4	23.6	17.2	12.9	9.3	8.6
87.5°	5.7	5.0	5.7	5.7	5.0	4.3	4.3	4.3	4.3	2.2	2.9
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)