

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: P450906

Luminaire Tested: **GALN-SA1D-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450906  
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-SA1D-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6672 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

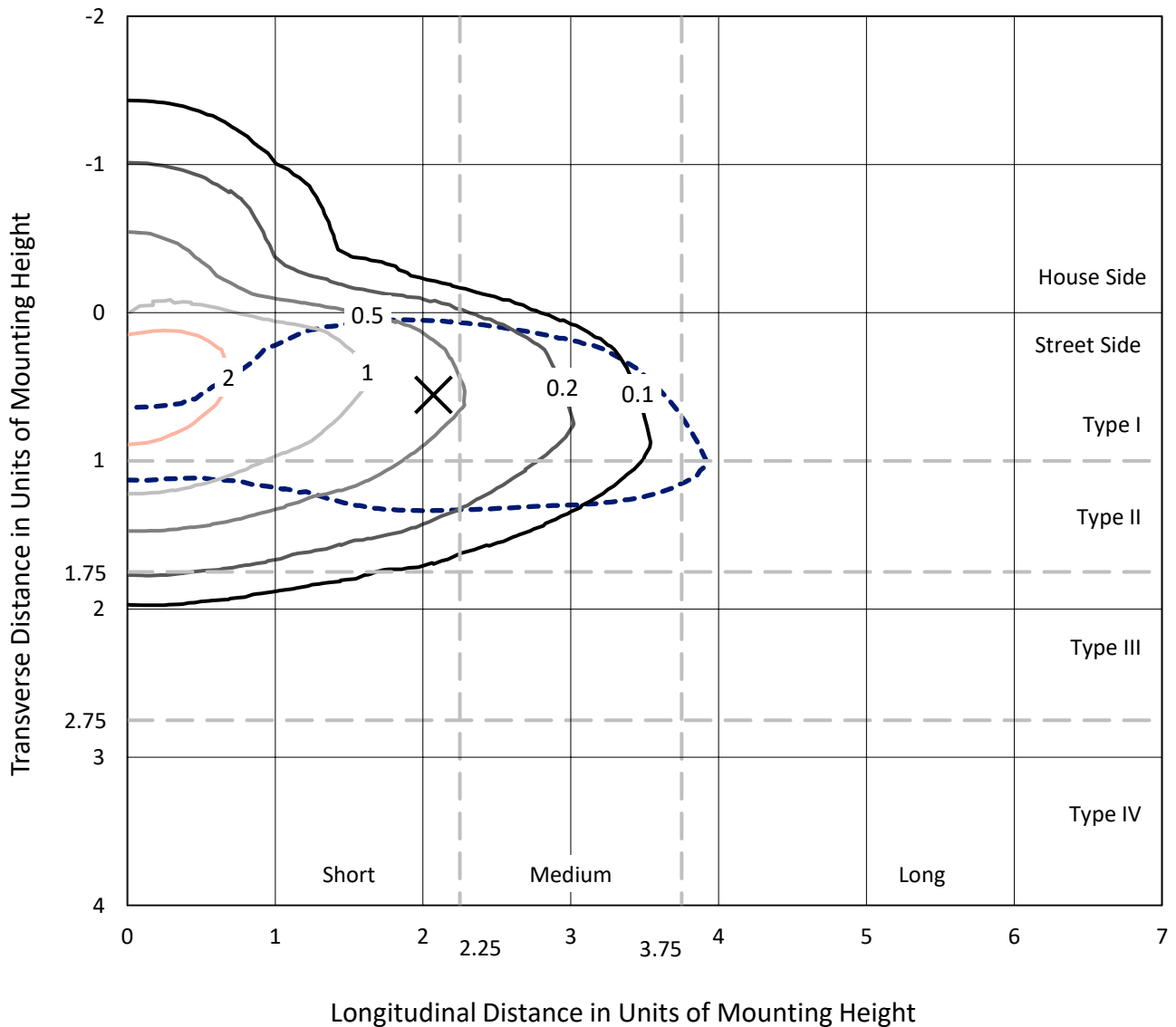
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

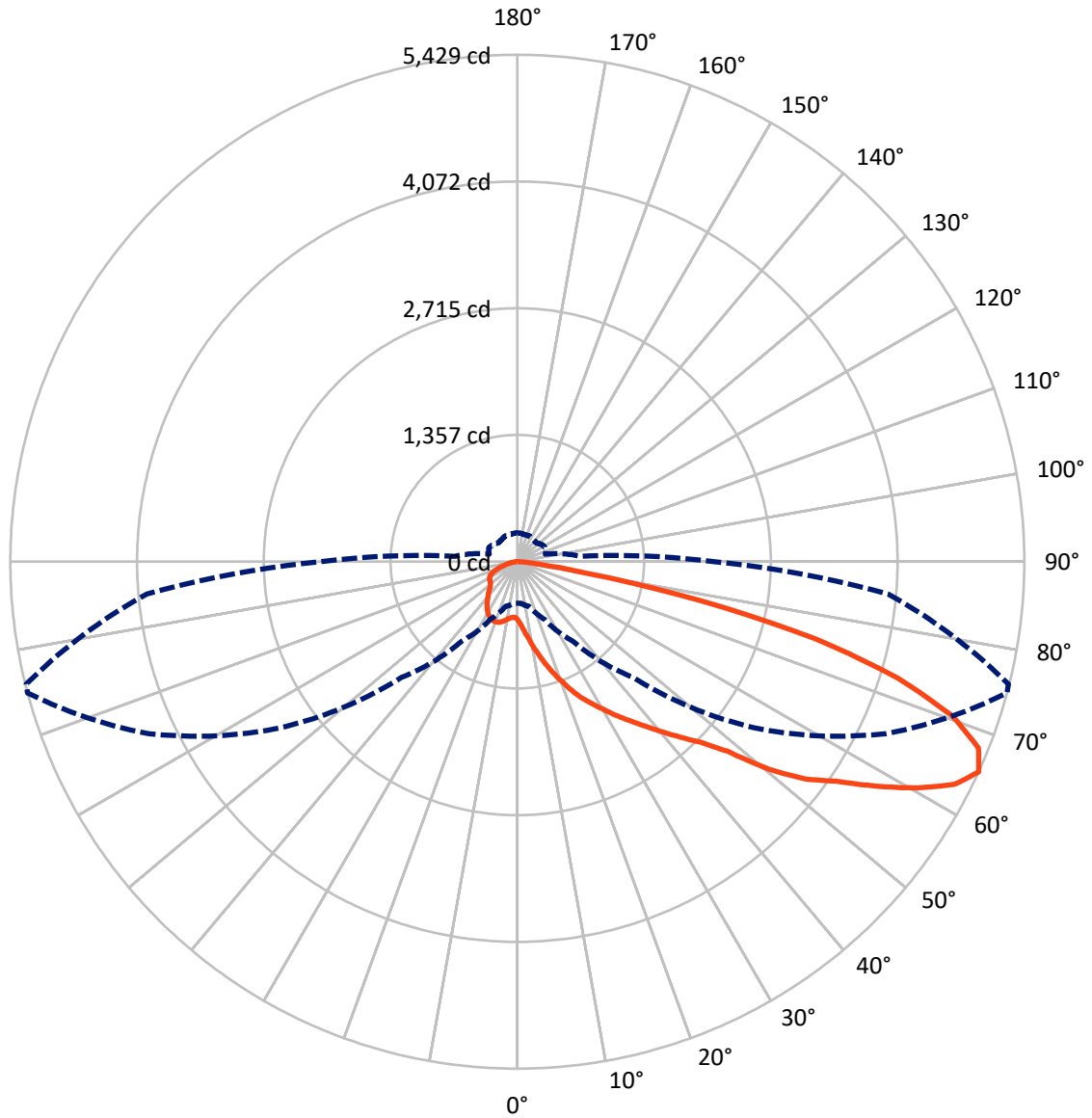
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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
<b>House Side</b>	Lumens	1121.7	0.0	1121.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5550.4	0.0	5550.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	6672.0	0.0	6672.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.1
10°-20°	295.0	4.4
20°-30°	569.9	8.5
30°-40°	925.6	13.9
40°-50°	1273.3	19.1
50°-60°	1503.3	22.5
60°-70°	1317.1	19.7
70°-80°	628.8	9.4
80°-90°	83.7	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°	6672.0	100.0
0°-180°	6672.0	100.0

**Coefficient of Utilization**



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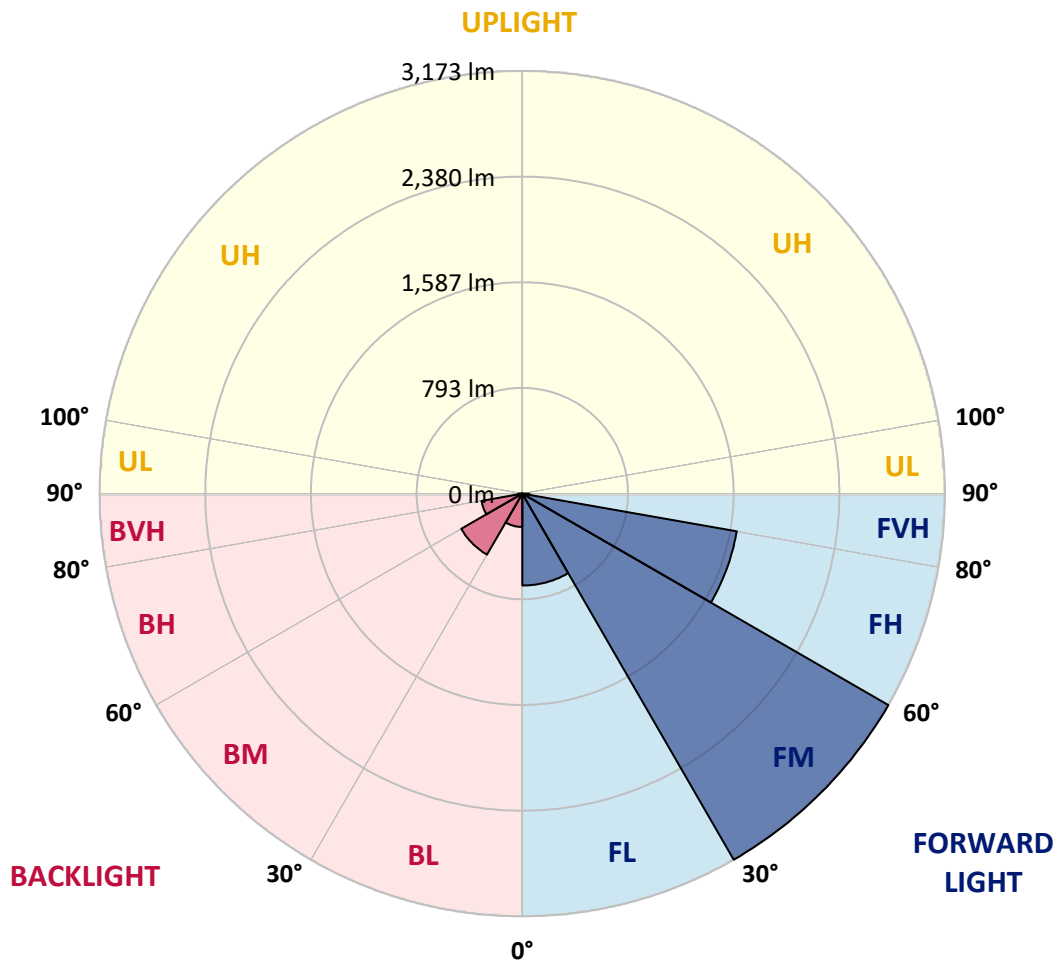
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.8	10.3			
FM (30°-60°)	3173.3	47.6			
FH (60°-80°)	1634.9	24.5			G1/1800
FVH (80°-90°)	52.3	0.8			G1/100
BL (0°-30°)	250.4	3.8	B1/500		
BM (30°-60°)	528.9	7.9	B1/1000		
BH (60°-80°)	311.0	4.7	B1/500		G1/500
BVH (80°-90°)	31.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
2.5°	823.7	818.2	812.4	796.5	779.5	760.3	732.8	706.4	671.3	670.2	644.2
5°	1052.0	1048.4	1022.7	1007.9	968.4	915.9	871.4	802.3	738.3	730.7	680.0
7.5°	1261.9	1247.8	1238.0	1211.2	1172.2	1104.8	1018.7	925.3	818.2	808.1	724.1
10°	1420.0	1418.6	1413.5	1390.4	1361.1	1294.1	1198.6	1064.7	919.6	899.7	777.7
12.5°	1538.4	1539.5	1538.7	1538.4	1517.4	1460.6	1357.1	1215.9	1022.0	1007.9	839.6
15°	1616.2	1627.0	1631.4	1649.5	1651.3	1613.3	1524.3	1362.1	1137.4	1116.4	906.2
17.5°	1667.6	1673.0	1693.3	1724.0	1749.0	1742.1	1662.9	1497.5	1255.4	1220.3	975.3
20°	1716.8	1726.2	1741.8	1783.7	1827.9	1848.2	1792.4	1636.1	1372.3	1349.8	1051.6
22.5°	1819.2	1832.6	1838.0	1859.4	1897.0	1932.8	1907.5	1768.9	1500.4	1470.0	1132.7
25°	1992.6	2006.7	1991.5	1986.4	1998.7	2016.4	2011.0	1894.1	1621.3	1577.8	1209.4
27.5°	2218.4	2220.2	2190.5	2162.3	2131.9	2122.8	2106.2	2005.2	1726.2	1690.0	1286.5
30°	2460.8	2452.1	2402.9	2351.9	2300.5	2249.9	2202.1	2112.3	1843.1	1801.5	1362.1
32.5°	2685.9	2681.2	2626.6	2547.3	2460.5	2412.7	2316.1	2220.5	1968.3	1928.1	1439.9
35°	2854.6	2861.4	2801.4	2714.9	2620.1	2577.7	2455.8	2334.2	2097.9	2054.1	1524.6
37.5°	2974.4	2970.7	2917.5	2842.6	2759.4	2722.5	2619.0	2458.3	2237.2	2195.2	1617.3
40°	3017.1	3014.9	2975.4	2920.8	2868.0	2854.9	2789.8	2592.2	2396.8	2347.6	1728.7
42.5°	2989.9	2994.6	2968.6	2953.7	2944.0	2953.4	2959.5	2767.7	2570.8	2525.6	1849.6
45°	2906.7	2904.1	2900.5	2924.8	2979.8	3041.7	3127.4	2933.5	2760.1	2723.9	2011.7
47.5°	2757.9	2776.0	2785.1	2852.0	2972.2	3118.7	3320.7	3155.7	3034.8	3003.3	2258.9
50°	2549.9	2564.3	2617.9	2737.0	2916.1	3147.7	3509.6	3519.0	3492.9	3433.9	2527.4
52.5°	2224.9	2247.3	2357.7	2575.9	2801.0	3135.8	3623.9	3830.6	3865.0	3820.8	2792.0
55°	1861.2	1892.7	2009.2	2295.5	2642.5	3070.6	3702.8	4011.2	4148.3	4107.4	3046.7
57.5°	1505.1	1538.4	1658.2	1935.4	2366.0	2926.6	3754.6	4212.4	4534.1	4480.9	3363.7
60°	1128.0	1162.7	1265.5	1551.0	1972.3	2645.0	3719.5	4386.8	4919.5	4896.7	3681.1
62.5°	727.8	766.1	855.5	1091.8	1515.9	2260.3	3531.7	4483.1	5253.2	5225.7	3912.7
65°	443.3	447.7	496.9	677.8	1037.5	1750.1	3102.1	4355.3	5429.0	5420.7	3983.3
67.5°	286.6	293.5	315.9	406.0	622.1	1215.6	2480.4	3933.7	5326.3	5323.4	3837.5
70°	242.1	244.3	254.4	273.9	361.5	737.2	1741.8	3261.7	4935.8	4935.8	3486.8
72.5°	216.4	219.3	222.9	229.1	258.0	417.6	1039.3	2539.0	4261.6	4289.8	2967.8
75°	196.5	195.8	198.0	199.0	220.0	272.9	537.4	1877.8	3296.8	3240.3	2149.2
77.5°	168.3	169.4	168.3	173.0	194.3	207.7	272.9	1260.1	1998.0	1924.9	1078.8
80°	138.2	140.1	141.9	144.8	166.1	157.8	163.9	574.3	739.0	723.4	333.3
82.5°	103.9	106.4	109.3	116.2	130.6	104.2	103.5	245.4	266.7	244.3	122.7
85°	42.0	49.6	74.9	81.8	82.1	57.2	63.7	102.4	108.9	106.4	48.1
87.5°	9.8	11.6	24.2	36.6	33.7	21.4	23.5	33.3	38.0	35.1	16.3
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°	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9	619.9
2.5°	632.2	619.6	597.8	581.2	569.2	558.8	552.2	548.3	546.8	546.4	546.8
5°	653.6	631.1	596.8	575.0	563.1	556.2	552.2	551.9	552.2	552.6	551.5
7.5°	682.9	650.7	605.8	585.5	576.5	571.4	569.6	568.9	569.2	568.9	568.9
10°	722.0	677.8	623.5	602.5	594.9	589.2	586.3	584.4	583.0	581.6	580.8
12.5°	765.0	707.9	642.7	622.4	611.6	602.5	596.0	591.3	588.1	584.8	584.1
15°	813.2	739.7	664.1	635.8	620.3	606.9	595.7	588.1	582.3	577.6	577.2
17.5°	859.1	769.7	678.5	642.0	619.2	600.4	585.5	575.0	567.8	561.6	560.9
20°	908.3	798.3	685.1	638.0	608.3	585.5	566.0	553.3	545.0	538.1	537.0
22.5°	957.9	822.6	684.3	625.3	589.5	562.7	542.1	528.7	518.9	512.1	509.5
25°	1005.3	842.1	675.3	605.1	563.5	535.6	514.6	502.3	493.6	485.3	485.3
27.5°	1048.0	853.7	658.3	580.5	536.7	507.4	490.7	479.5	471.5	466.1	462.9
30°	1090.0	859.1	635.1	549.3	508.5	483.5	470.1	463.6	456.3	450.2	449.5
32.5°	1127.6	858.0	606.2	518.9	481.7	463.9	458.5	453.4	445.8	437.2	435.0
35°	1164.2	850.8	571.8	485.7	459.2	452.4	453.8	446.6	432.8	422.0	420.2
37.5°	1204.0	837.8	534.1	458.5	440.4	446.9	450.5	434.6	412.2	395.2	391.2
40°	1250.0	822.9	495.1	431.4	425.6	441.9	441.9	412.6	381.8	371.3	368.4
42.5°	1303.9	810.6	462.5	408.6	413.3	429.6	427.8	383.2	370.6	365.1	363.7
45°	1389.3	806.3	428.8	388.7	403.1	415.1	400.2	373.1	365.9	361.5	360.1
47.5°	1524.3	811.4	399.2	373.8	391.6	400.6	369.5	366.2	361.2	355.0	354.3
50°	1649.5	806.6	378.2	365.5	381.4	383.2	356.8	357.9	355.0	348.1	346.7
52.5°	1751.9	791.8	364.8	361.2	372.7	352.8	344.9	348.9	347.8	339.1	337.6
55°	1864.4	782.8	358.3	361.2	367.0	326.4	333.7	339.5	338.0	331.9	331.5
57.5°	2000.9	784.6	353.6	362.2	361.2	313.0	322.4	329.3	329.0	327.1	327.1
60°	2140.6	785.3	346.3	361.9	354.3	302.5	310.9	320.6	321.4	322.4	322.4
62.5°	2186.9	753.8	332.2	355.4	339.1	292.4	300.0	313.4	312.7	315.6	315.9
65°	2100.4	666.6	311.2	340.5	319.5	285.2	291.7	304.0	300.0	307.6	309.1
67.5°	1911.9	551.5	278.7	313.8	297.8	277.6	286.3	291.0	283.7	298.6	298.9
70°	1652.4	430.6	237.4	275.8	273.2	269.6	281.9	274.7	264.5	282.6	279.0
72.5°	1381.7	329.0	189.6	225.5	240.3	257.7	274.3	253.7	239.6	245.0	238.5
75°	1037.9	243.2	152.4	176.6	200.1	240.7	267.4	228.4	206.6	201.6	200.1
77.5°	529.1	158.9	114.0	132.1	150.2	217.5	258.0	198.7	171.2	163.2	159.6
80°	188.9	98.8	80.3	91.2	101.3	187.1	225.5	164.3	132.8	131.4	132.8
82.5°	87.6	63.7	53.9	59.7	60.1	124.9	171.9	122.7	101.0	153.4	129.6
85°	37.6	31.8	30.4	29.7	27.5	55.7	96.6	65.9	102.8	46.0	42.3
87.5°	11.2	12.7	11.2	8.3	6.2	6.2	9.8	3.6	2.5	1.8	1.8
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)