

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: P450703

Luminaire Tested: **GALN-SA1C-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450703  
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-SA1C-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6603 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

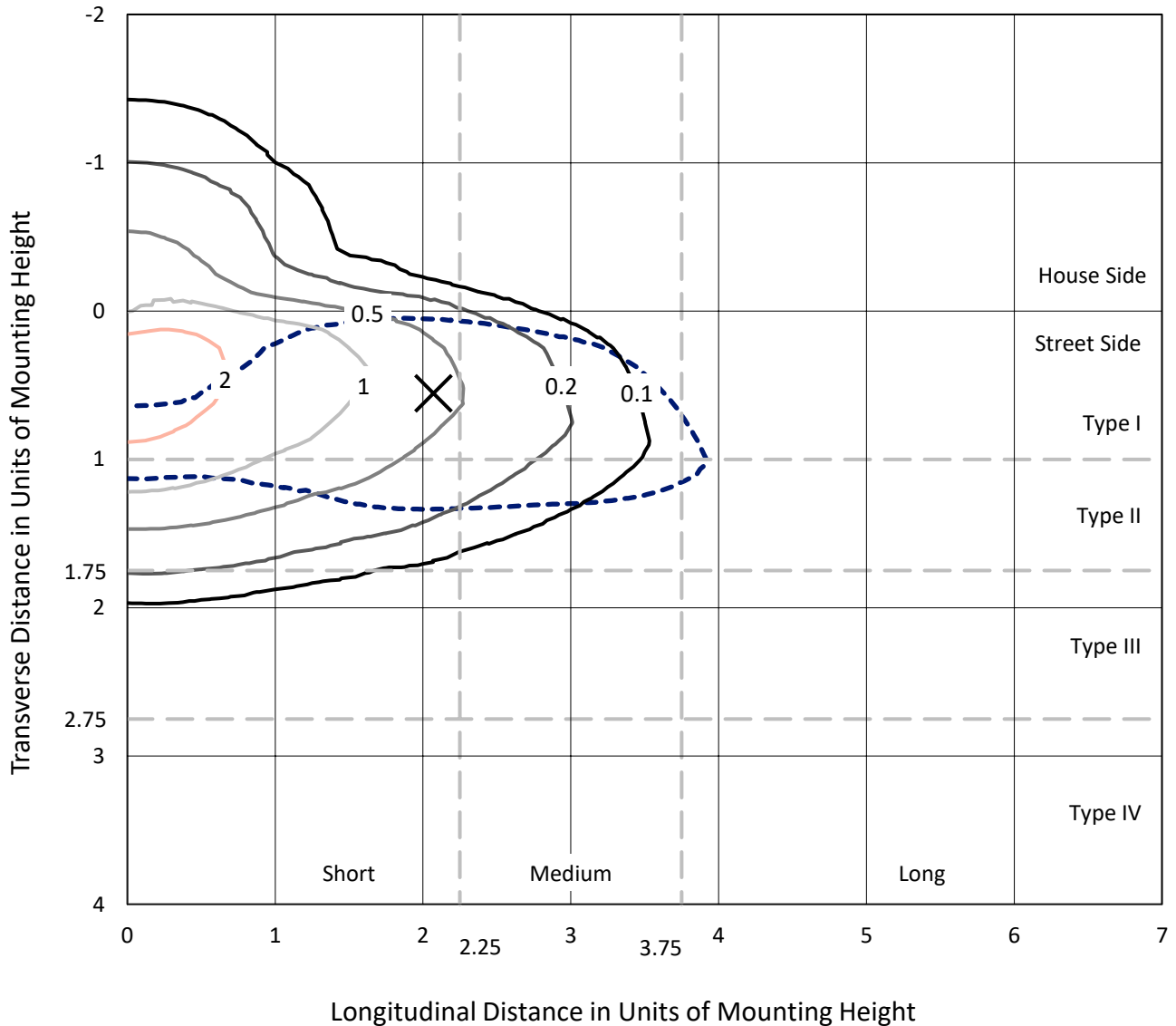
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

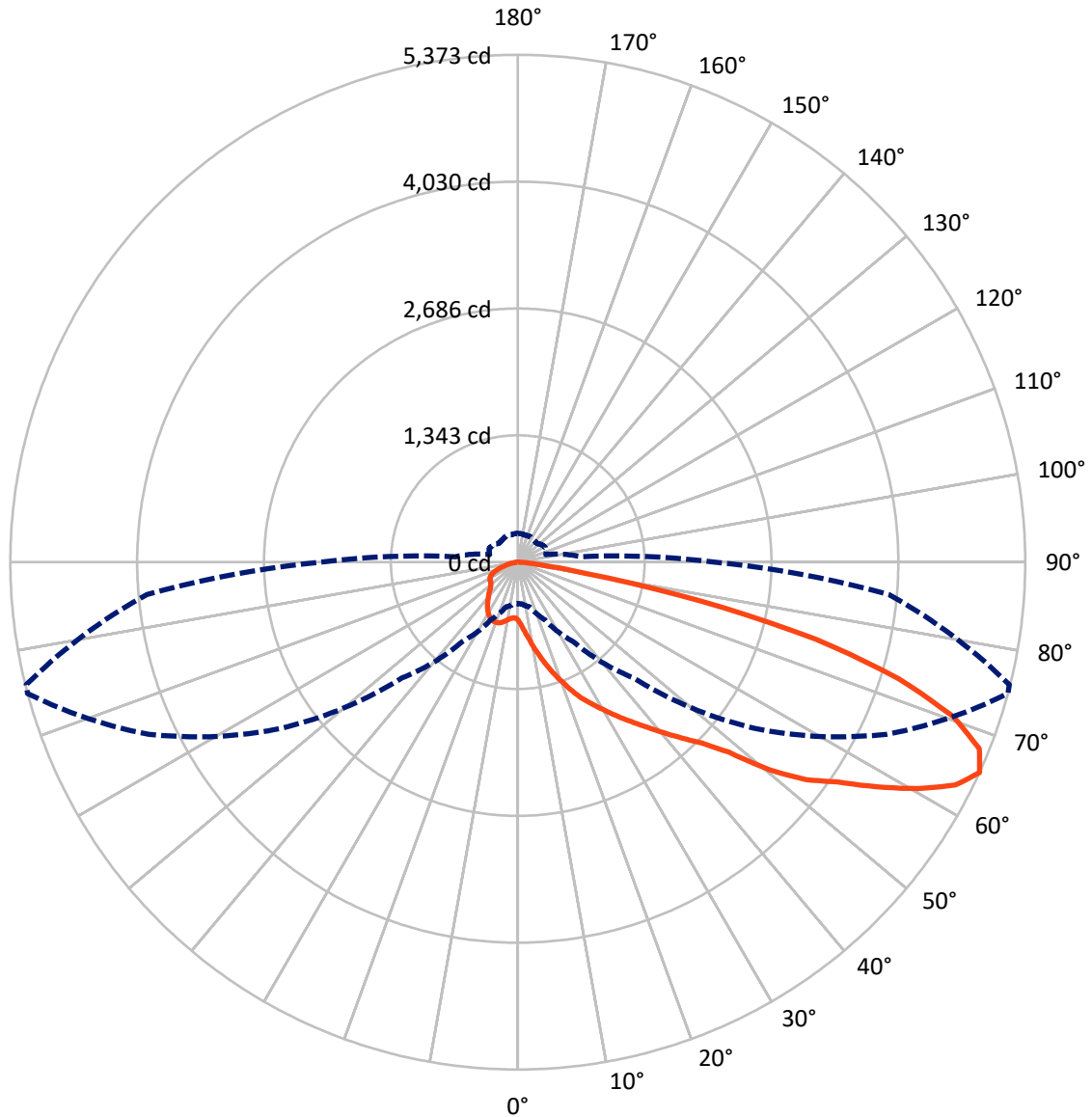
✕ Max cd  
 - - - 1/2 Max cd



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	1110.1	0.0	1110.1
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	5492.9	0.0	5492.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	6603.0	0.0	6603.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	1.1
10°-20°	292.0	4.4
20°-30°	564.0	8.5
30°-40°	916.0	13.9
40°-50°	1260.1	19.1
50°-60°	1487.8	22.5
60°-70°	1303.5	19.7
70°-80°	622.3	9.4
80°-90°	82.8	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°	6603.0	100.0
0°-180°	6603.0	100.0

**Coefficient of Utilization**



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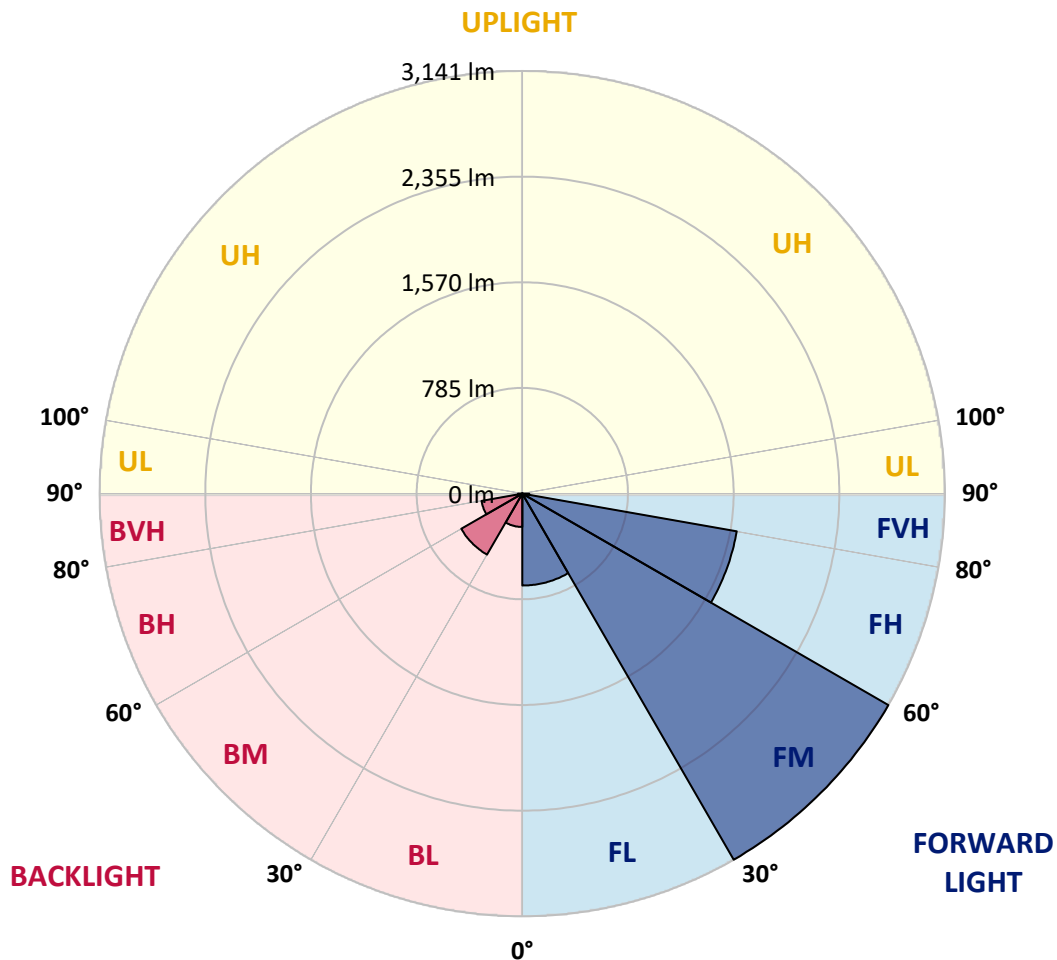
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.6	10.3			
FM (30°-60°)	3140.5	47.6			
FH (60°-80°)	1618.0	24.5			G1/1800
FVH (80°-90°)	51.7	0.8			G1/100
BL (0°-30°)	247.8	3.8	B1/500		
BM (30°-60°)	523.4	7.9	B1/1000		
BH (60°-80°)	307.8	4.7	B1/500		G1/500
BVH (80°-90°)	31.1	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5
2.5°	815.1	809.8	804.0	788.3	771.4	752.5	725.2	699.1	664.4	663.3	637.5
5°	1041.1	1037.5	1012.1	997.4	958.4	906.5	862.4	794.0	730.6	723.1	673.0
7.5°	1248.9	1234.9	1225.2	1198.7	1160.0	1093.4	1008.2	915.8	809.8	799.7	716.6
10°	1405.4	1403.9	1398.9	1376.0	1347.0	1280.7	1186.2	1053.7	910.0	890.3	769.7
12.5°	1522.5	1523.5	1522.8	1522.5	1501.7	1445.5	1343.0	1203.4	1011.4	997.4	830.9
15°	1599.5	1610.2	1614.5	1632.4	1634.2	1596.6	1508.5	1348.1	1125.6	1104.9	896.8
17.5°	1650.3	1655.7	1675.8	1706.2	1730.9	1724.1	1645.7	1482.0	1242.4	1207.7	965.2
20°	1699.0	1708.4	1723.8	1765.3	1809.0	1829.0	1773.9	1619.2	1358.1	1335.9	1040.8
22.5°	1800.4	1813.6	1819.0	1840.1	1877.4	1912.9	1887.8	1750.6	1484.9	1454.8	1121.0
25°	1971.9	1985.9	1970.9	1965.9	1978.0	1995.6	1990.2	1874.5	1604.5	1561.5	1196.9
27.5°	2195.4	2197.2	2167.9	2139.9	2109.8	2100.9	2084.4	1984.5	1708.4	1672.5	1273.2
30°	2435.4	2426.8	2378.1	2327.6	2276.7	2226.6	2179.3	2090.5	1824.0	1782.8	1348.1
32.5°	2658.2	2653.5	2599.4	2521.0	2435.0	2387.8	2292.1	2197.6	1947.9	1908.2	1425.1
35°	2825.0	2831.9	2772.4	2686.8	2593.0	2551.1	2430.4	2310.0	2076.2	2032.8	1508.9
37.5°	2943.6	2940.0	2887.4	2813.2	2730.9	2694.3	2591.9	2432.9	2214.1	2172.5	1600.5
40°	2985.9	2983.7	2944.7	2890.6	2838.3	2825.4	2760.9	2565.4	2372.0	2323.3	1710.9
42.5°	2959.0	2963.6	2937.9	2923.2	2913.5	2922.8	2928.9	2739.1	2544.3	2499.5	1830.5
45°	2876.6	2874.1	2870.5	2894.5	2949.0	3010.2	3095.1	2903.1	2731.6	2695.8	1990.9
47.5°	2729.4	2747.3	2756.3	2822.5	2941.4	3086.5	3286.3	3123.0	3003.4	2972.2	2235.5
50°	2523.5	2537.8	2590.8	2708.6	2885.9	3115.1	3473.3	3482.6	3456.8	3398.4	2501.3
52.5°	2201.9	2224.1	2333.3	2549.3	2772.0	3103.3	3586.5	3791.0	3825.0	3781.3	2763.1
55°	1841.9	1873.1	1988.4	2271.7	2615.2	3038.9	3664.5	3969.7	4105.4	4064.9	3015.2
57.5°	1489.5	1522.5	1641.0	1915.4	2341.6	2896.3	3715.8	4168.8	4487.2	4434.5	3329.0
60°	1116.3	1150.7	1252.4	1535.0	1951.9	2617.7	3681.0	4341.4	4868.6	4846.1	3643.0
62.5°	720.2	758.2	846.7	1080.5	1500.3	2237.0	3495.1	4436.7	5198.8	5171.6	3872.3
65°	438.7	443.0	491.7	670.8	1026.8	1732.0	3070.0	4310.3	5372.9	5364.7	3942.1
67.5°	283.7	290.5	312.7	401.8	615.7	1203.0	2454.7	3893.0	5271.2	5268.3	3797.8
70°	239.6	241.7	251.8	271.1	357.8	729.5	1723.8	3228.0	4884.7	4884.7	3450.7
72.5°	214.2	217.0	220.6	226.7	255.4	413.3	1028.6	2512.7	4217.5	4245.4	2937.1
75°	194.5	193.8	195.9	197.0	217.8	270.0	531.8	1858.4	3262.7	3206.8	2127.0
77.5°	166.5	167.6	166.5	171.2	192.3	205.6	270.0	1247.1	1977.3	1905.0	1067.6
80°	136.8	138.6	140.4	143.3	164.4	156.2	162.2	568.4	731.3	715.9	329.9
82.5°	102.8	105.3	108.2	115.0	129.3	103.1	102.4	242.8	264.0	241.7	121.4
85°	41.5	49.1	74.1	80.9	81.3	56.6	63.0	101.4	107.8	105.3	47.6
87.5°	9.7	11.5	24.0	36.2	33.3	21.1	23.3	32.9	37.6	34.7	16.1
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°	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5	613.5
2.5°	625.7	613.1	591.7	575.2	563.4	553.0	546.5	542.6	541.2	540.8	541.2
5°	646.8	624.6	590.6	569.1	557.3	550.5	546.5	546.2	546.5	546.9	545.8
7.5°	675.8	643.9	599.5	579.5	570.5	565.5	563.7	563.0	563.4	563.0	563.0
10°	714.5	670.8	617.1	596.3	588.8	583.1	580.2	578.4	577.0	575.5	574.8
12.5°	757.1	700.5	636.1	616.0	605.3	596.3	589.9	585.2	582.0	578.8	578.0
15°	804.8	732.0	657.2	629.3	613.9	600.6	589.5	582.0	576.3	571.6	571.2
17.5°	850.2	761.8	671.5	635.3	612.8	594.2	579.5	569.1	561.9	555.8	555.1
20°	898.9	790.1	678.0	631.4	602.0	579.5	560.1	547.6	539.4	532.6	531.5
22.5°	948.0	814.1	677.3	618.9	583.4	556.9	536.5	523.2	513.6	506.8	504.3
25°	994.9	833.4	668.3	598.8	557.6	530.1	509.3	497.1	488.5	480.3	480.3
27.5°	1037.2	844.9	651.5	574.5	531.1	502.1	485.6	474.5	466.7	461.3	458.1
30°	1078.7	850.2	628.5	543.7	503.2	478.5	465.2	458.8	451.6	445.5	444.8
32.5°	1116.0	849.2	599.9	513.6	476.7	459.1	453.8	448.8	441.2	432.6	430.5
35°	1152.2	842.0	565.9	480.6	454.5	447.7	449.1	442.0	428.3	417.6	415.8
37.5°	1191.5	829.1	528.6	453.8	435.9	442.3	445.9	430.1	407.9	391.1	387.2
40°	1237.0	814.4	489.9	426.9	421.2	437.3	437.3	408.3	377.8	367.5	364.6
42.5°	1290.4	802.2	457.7	404.3	409.0	425.1	423.3	379.3	366.7	361.4	359.9
45°	1374.9	797.9	424.4	384.6	399.0	410.8	396.1	369.2	362.1	357.8	356.4
47.5°	1508.5	803.0	395.0	370.0	387.5	396.5	365.7	362.4	357.4	351.3	350.6
50°	1632.4	798.3	374.3	361.7	377.5	379.3	353.1	354.2	351.3	344.5	343.1
52.5°	1733.8	783.6	361.0	357.4	368.9	349.2	341.3	345.3	344.2	335.6	334.1
55°	1845.2	774.7	354.6	357.4	363.2	323.0	330.2	335.9	334.5	328.4	328.1
57.5°	1980.2	776.5	349.9	358.5	357.4	309.8	319.1	325.9	325.6	323.8	323.8
60°	2118.4	777.2	342.7	358.1	350.6	299.4	307.6	317.3	318.0	319.1	319.1
62.5°	2164.3	746.0	328.8	351.7	335.6	289.4	296.9	310.2	309.4	312.3	312.7
65°	2078.7	659.7	308.0	337.0	316.2	282.2	288.7	300.8	296.9	304.4	305.9
67.5°	1892.1	545.8	275.8	310.5	294.8	274.7	283.3	287.9	280.8	295.5	295.8
70°	1635.3	426.2	234.9	272.9	270.4	266.8	279.0	271.8	261.8	279.7	276.1
72.5°	1367.4	325.6	187.7	223.1	237.8	255.0	271.5	251.1	237.1	242.5	236.0
75°	1027.2	240.7	150.8	174.8	198.1	238.2	264.7	226.0	204.5	199.5	198.1
77.5°	523.6	157.2	112.8	130.7	148.6	215.2	255.4	196.6	169.4	161.5	157.9
80°	187.0	97.8	79.5	90.3	100.3	185.2	223.1	162.6	131.4	130.0	131.4
82.5°	86.7	63.0	53.4	59.1	59.5	123.6	170.1	121.4	99.9	151.9	128.2
85°	37.2	31.5	30.1	29.4	27.2	55.2	95.6	65.2	101.7	45.5	41.9
87.5°	11.1	12.5	11.1	8.2	6.1	6.1	9.7	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)