

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: P527920

Luminaire Tested: **GALN-SA3A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9677 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

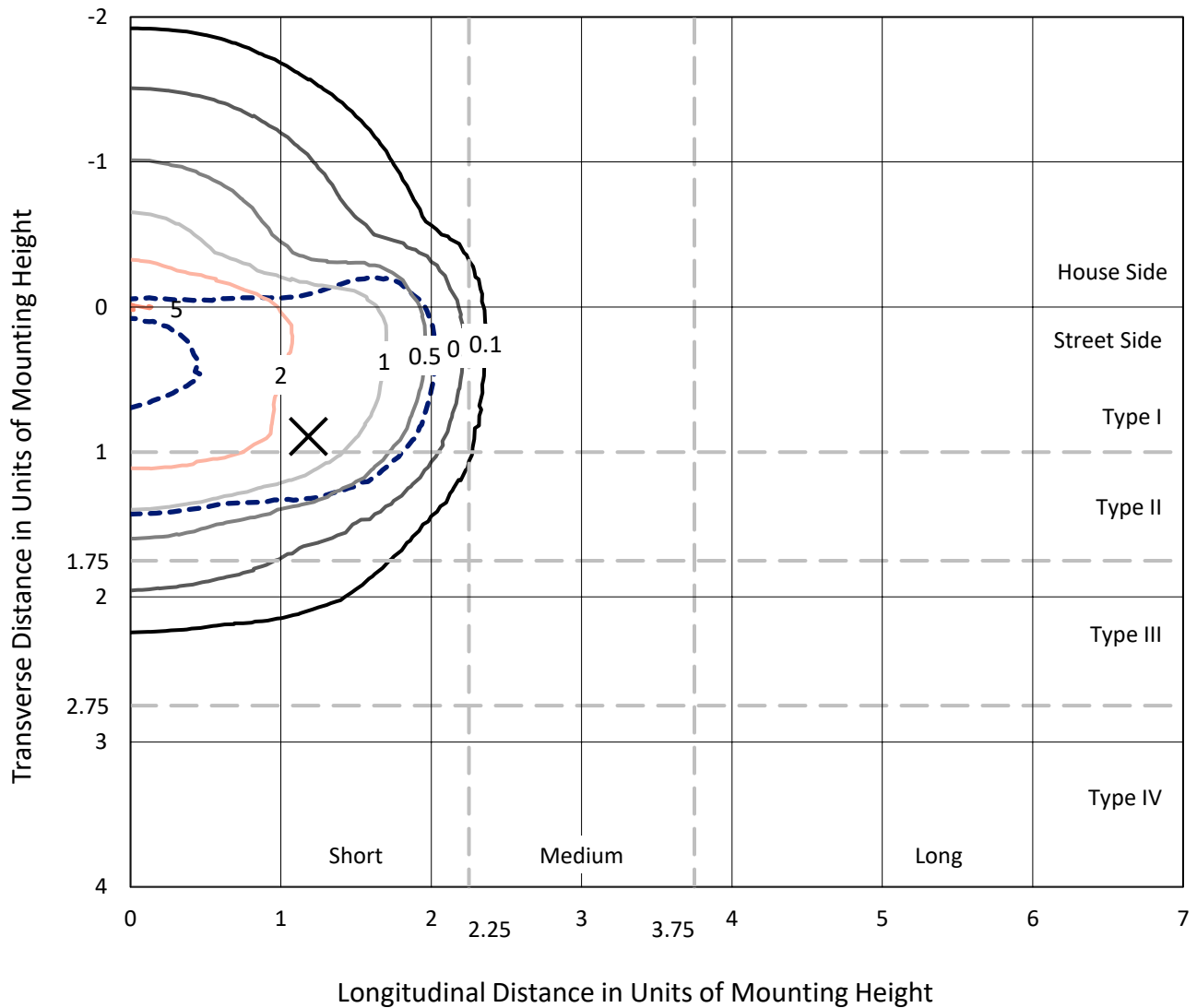
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

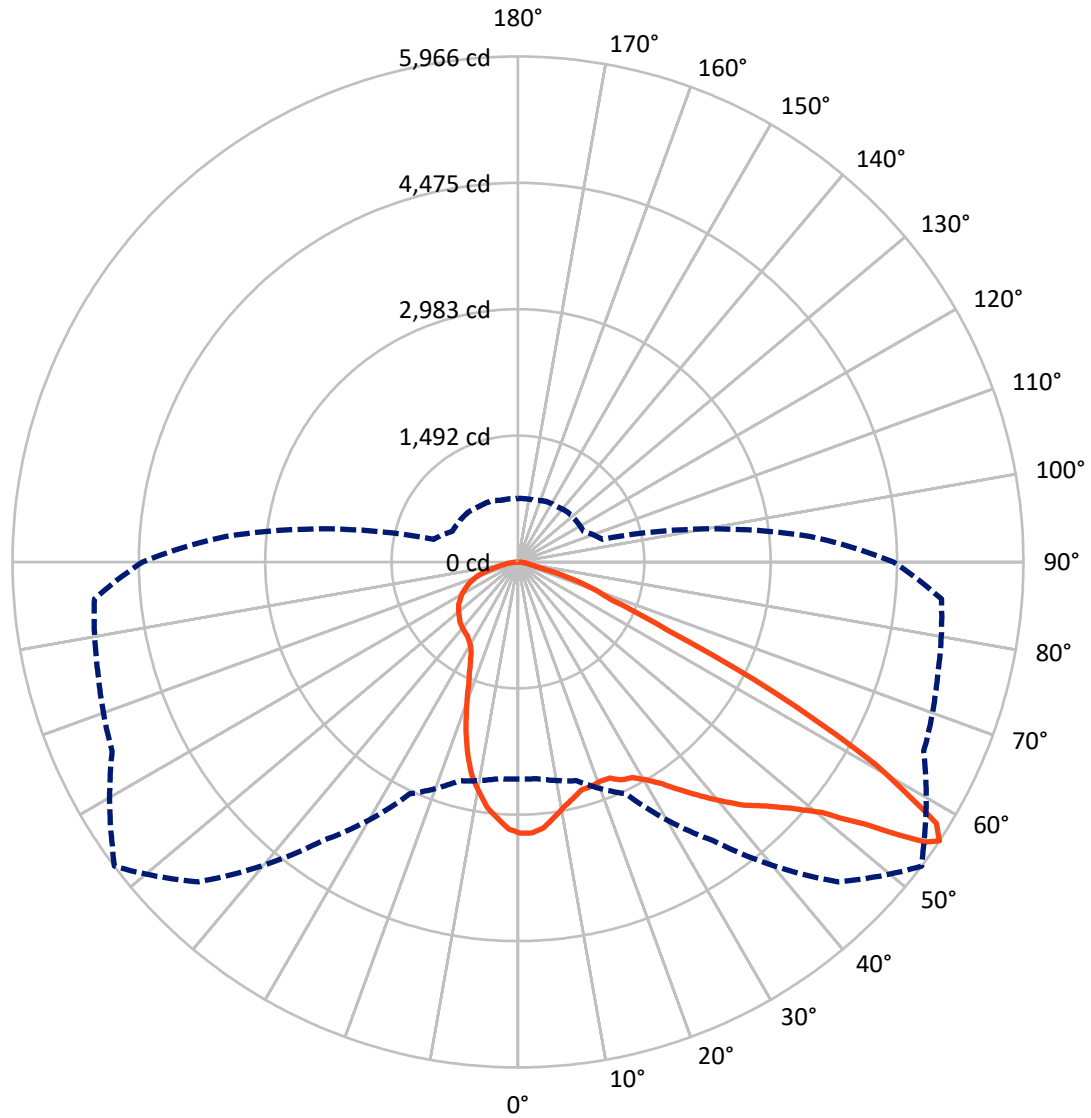
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2824.0	0.0	2824.0
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	6853.0	0.0	6853.0
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	9677.0	0.0	9677.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	2.9
10°-20°	707.9	7.3
20°-30°	1043.8	10.8
30°-40°	1491.4	15.4
40°-50°	2052.8	21.2
50°-60°	2425.8	25.1
60°-70°	1292.8	13.4
70°-80°	328.0	3.4
80°-90°	51.1	0.5
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°	9677.0	100.0
0°-180°	9677.0	100.0

**Coefficient of Utilization**



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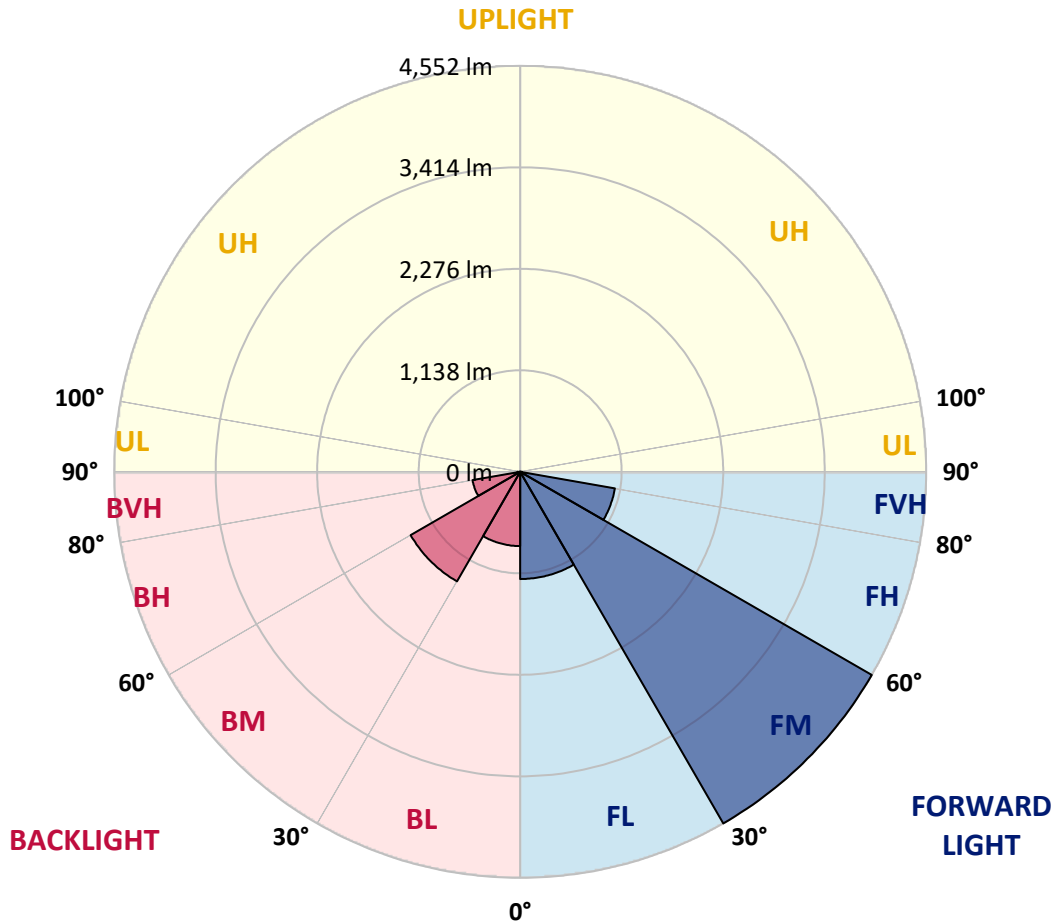
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.2	12.4			
FM (30°-60°)	4551.9	47.0			
FH (60°-80°)	1078.4	11.1			G1/1800
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	832.9	8.6	B2/1000		
BM (30°-60°)	1418.1	14.7	B2/2500		
BH (60°-80°)	542.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5
2.5°	3161.8	3134.5	3150.6	3144.4	3195.3	3210.2	3202.8	3209.0	3237.5	3223.9	3195.3
5°	2954.5	2993.0	3000.4	3019.0	3048.8	3107.2	3153.1	3165.5	3179.2	3242.5	3236.3
7.5°	2765.8	2791.9	2778.2	2832.8	2897.4	2991.7	3047.6	3057.5	3182.9	3217.7	3243.7
10°	2646.6	2620.6	2682.6	2697.5	2770.8	2878.8	2945.8	2986.8	3101.0	3238.8	3254.9
12.5°	2536.2	2527.5	2564.7	2606.9	2688.8	2800.6	2868.8	2885.0	3061.3	3206.5	3282.2
15°	2454.2	2444.3	2481.5	2512.6	2608.2	2707.5	2794.4	2840.3	3017.8	3187.9	3258.6
17.5°	2389.7	2388.4	2409.5	2465.4	2563.5	2646.6	2786.9	2789.4	2995.5	3216.4	3278.5
20°	2385.9	2384.7	2388.4	2450.5	2539.9	2641.7	2763.3	2785.7	2995.5	3196.6	3279.7
22.5°	2417.0	2397.1	2419.5	2459.2	2523.7	2650.4	2772.0	2821.7	3067.5	3294.6	3335.6
25°	2466.6	2471.6	2484.0	2497.7	2534.9	2670.2	2849.0	2889.9	3151.9	3379.1	3412.6
27.5°	2557.3	2554.8	2559.7	2567.2	2599.5	2688.8	2880.0	2985.5	3328.2	3529.3	3495.7
30°	2690.1	2681.4	2701.3	2727.3	2697.5	2748.4	2983.0	3062.5	3492.0	3680.7	3588.8
32.5°	2810.5	2842.8	2880.0	2891.2	2855.2	2865.1	3119.6	3200.3	3628.6	3866.9	3703.1
35°	2960.7	2986.8	3036.4	3071.2	3065.0	3035.2	3305.8	3412.6	3825.9	4003.5	3823.5
37.5°	3107.2	3138.2	3220.2	3323.2	3266.1	3252.4	3504.4	3592.6	3886.8	4076.7	3911.6
40°	3343.1	3341.8	3483.3	3536.7	3587.6	3564.0	3710.5	3740.3	3919.1	4060.6	3914.1
42.5°	3619.9	3602.5	3746.5	3829.7	3895.5	3898.0	3925.3	3915.3	3934.0	3978.6	3888.0
45°	3883.1	3920.3	4065.5	4214.5	4280.3	4287.7	4106.5	4087.9	3960.0	3955.1	3838.4
47.5°	4204.6	4213.3	4332.4	4528.6	4681.3	4629.1	4341.1	4300.2	4074.2	4112.7	3921.5
50°	4223.2	4287.7	4394.5	4625.4	5094.6	5081.0	4645.3	4568.3	4258.0	4336.2	4153.7
52.5°	3833.4	3818.5	3945.1	4322.5	5063.6	5530.4	5149.3	4965.5	4652.7	4593.1	4529.8
55°	2921.0	2955.7	3067.5	3448.6	4397.0	5536.6	5835.8	5685.5	5074.8	4973.0	4899.7
56°	2562.2	2567.2	2672.7	3020.3	4012.2	5339.2	5966.1	5844.4	5284.6	5129.4	5017.7
57.5°	2124.0	2095.5	2150.1	2340.0	3386.5	4922.1	5823.3	5942.5	5530.4	5298.2	5143.1
60°	1672.1	1665.9	1643.6	1678.4	2140.1	3708.0	4847.6	5115.7	5505.5	5139.3	4925.8
62.5°	1365.5	1334.5	1379.2	1428.8	1487.2	2300.3	3406.4	3564.0	4370.9	4102.8	3700.6
65°	1058.9	1044.0	1099.9	1261.2	1296.0	1461.1	1940.3	2061.9	2580.8	2534.9	2232.0
67.5°	728.7	731.2	779.6	1025.4	1201.7	1186.8	1188.0	1251.3	1346.9	1000.6	871.5
70°	461.8	460.6	486.6	660.4	967.0	977.0	927.3	908.7	861.5	521.4	552.4
72.5°	296.7	288.0	301.7	365.0	500.3	578.5	595.9	607.0	499.0	409.7	444.4
75°	167.6	158.9	153.9	170.1	197.4	228.4	250.8	258.2	289.2	310.3	329.0
77.5°	50.9	45.9	55.9	74.5	98.1	131.6	160.1	165.1	194.9	219.7	238.3
80°	22.3	24.8	34.8	49.7	69.5	93.1	113.0	120.4	140.3	158.9	163.9
82.5°	13.7	14.9	23.6	33.5	48.4	65.8	80.7	83.2	103.0	117.9	121.7
85°	5.0	6.2	12.4	19.9	31.0	42.2	42.2	45.9	42.2	42.2	45.9
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	5.0	5.0	6.2	7.4	8.7
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°	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5	3201.5
2.5°	3210.2	3204.0	3194.1	3158.1	3154.4	3143.2	3081.1	3071.2	3081.1	3051.3	3053.8
5°	3204.0	3222.6	3148.2	3112.2	3045.1	2996.7	2940.8	2912.3	2861.4	2829.1	2865.1
7.5°	3231.3	3223.9	3130.8	3052.6	2952.0	2829.1	2731.0	2675.2	2585.8	2561.0	2579.6
10°	3221.4	3181.7	3072.4	2969.4	2779.5	2671.5	2512.6	2358.6	2274.2	2230.8	2224.6
12.5°	3207.7	3196.6	3014.1	2836.6	2636.7	2409.5	2186.1	2040.8	1903.0	1843.5	1852.1
15°	3223.9	3129.5	2904.8	2680.2	2414.5	2116.6	1875.7	1688.3	1592.7	1554.2	1554.2
17.5°	3216.4	3097.3	2852.7	2505.1	2168.7	1816.1	1551.7	1438.8	1399.0	1399.0	1410.2
20°	3220.2	3118.4	2747.2	2330.1	1878.2	1529.4	1337.0	1296.0	1313.4	1319.6	1325.8
22.5°	3241.3	3048.8	2644.2	2137.7	1608.8	1308.4	1214.1	1215.3	1246.4	1279.9	1273.7
25°	3267.3	3021.5	2518.8	1946.5	1402.8	1200.4	1170.6	1166.9	1190.5	1207.9	1210.4
27.5°	3245.0	2974.4	2390.9	1708.1	1233.9	1128.4	1122.2	1124.7	1132.1	1166.9	1155.7
30°	3318.2	2988.0	2230.8	1508.3	1140.8	1104.8	1097.4	1093.7	1104.8	1114.8	1106.1
32.5°	3408.8	2939.6	2111.6	1315.9	1094.9	1087.5	1072.6	1067.6	1073.8	1063.9	1068.8
35°	3448.6	2930.9	1956.4	1178.1	1058.9	1052.7	1044.0	1042.8	1044.0	1035.3	1027.9
37.5°	3470.9	2971.9	1778.9	1114.8	1036.6	1042.8	1022.9	1020.4	998.1	1003.0	1006.8
40°	3509.4	2908.6	1634.9	1053.9	1022.9	1010.5	993.1	989.4	974.5	965.8	974.5
42.5°	3453.5	2889.9	1493.4	1027.9	1003.0	989.4	977.0	955.9	950.9	943.5	938.5
45°	3408.8	2783.2	1366.8	995.6	979.5	972.0	948.4	926.1	907.5	914.9	903.7
47.5°	3442.4	2745.9	1241.4	968.3	947.2	938.5	914.9	897.5	878.9	870.2	867.7
50°	3576.4	2815.5	1135.9	948.4	919.9	914.9	883.9	864.0	846.6	840.4	842.9
52.5°	3896.7	3005.4	1063.9	907.5	893.8	871.5	854.1	829.2	818.1	798.2	810.6
55°	4302.6	3314.5	1045.2	869.0	861.5	841.7	818.1	799.5	778.3	762.2	758.5
56°	4433.0	3462.2	1030.3	854.1	841.7	830.5	799.5	788.3	754.8	751.0	748.6
57.5°	4538.5	3592.6	1032.8	825.5	813.1	803.2	784.6	757.2	734.9	721.2	727.5
60°	4300.2	3362.9	985.7	782.1	779.6	761.0	734.9	722.5	695.2	679.0	675.3
62.5°	3196.6	2282.9	799.5	726.2	725.0	705.1	675.3	661.7	656.7	634.3	634.3
65°	1841.0	1431.3	691.5	680.3	670.3	650.5	620.7	609.5	597.1	589.7	583.5
67.5°	785.8	742.3	628.1	626.9	615.7	590.9	561.1	543.7	527.6	512.7	520.1
70°	569.8	578.5	567.3	561.1	547.5	516.4	490.3	469.2	444.4	434.5	441.9
72.5°	451.9	470.5	486.6	487.9	471.7	435.7	407.2	378.6	351.3	337.7	343.9
75°	342.6	355.0	371.2	374.9	351.3	326.5	299.2	269.4	248.3	232.1	234.6
77.5°	247.0	244.6	259.4	257.0	245.8	228.4	203.6	176.3	152.7	137.8	139.0
80°	168.8	172.6	181.2	180.0	166.3	155.2	136.6	114.2	96.8	84.4	81.9
82.5°	117.9	124.1	131.6	125.4	114.2	103.0	89.4	73.2	59.6	49.7	47.2
85°	42.2	48.4	55.9	59.6	63.3	60.8	50.9	41.0	29.8	24.8	23.6
87.5°	8.7	9.9	11.2	11.2	11.2	9.9	8.7	8.7	7.4	3.7	3.7
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)