

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: P532766

Luminaire Tested: **GALN-SA8A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532766  
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-SA8A-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23855 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

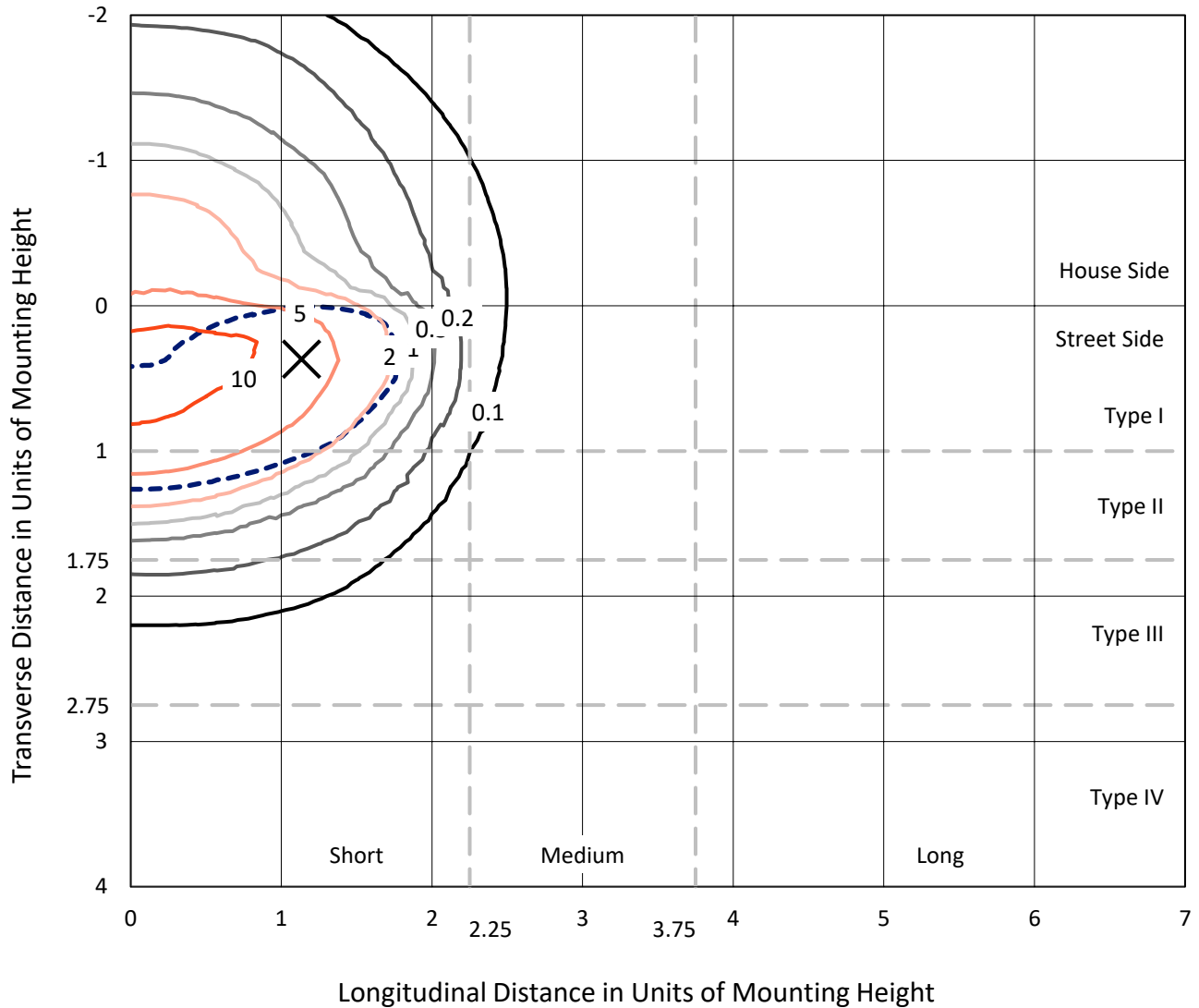
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

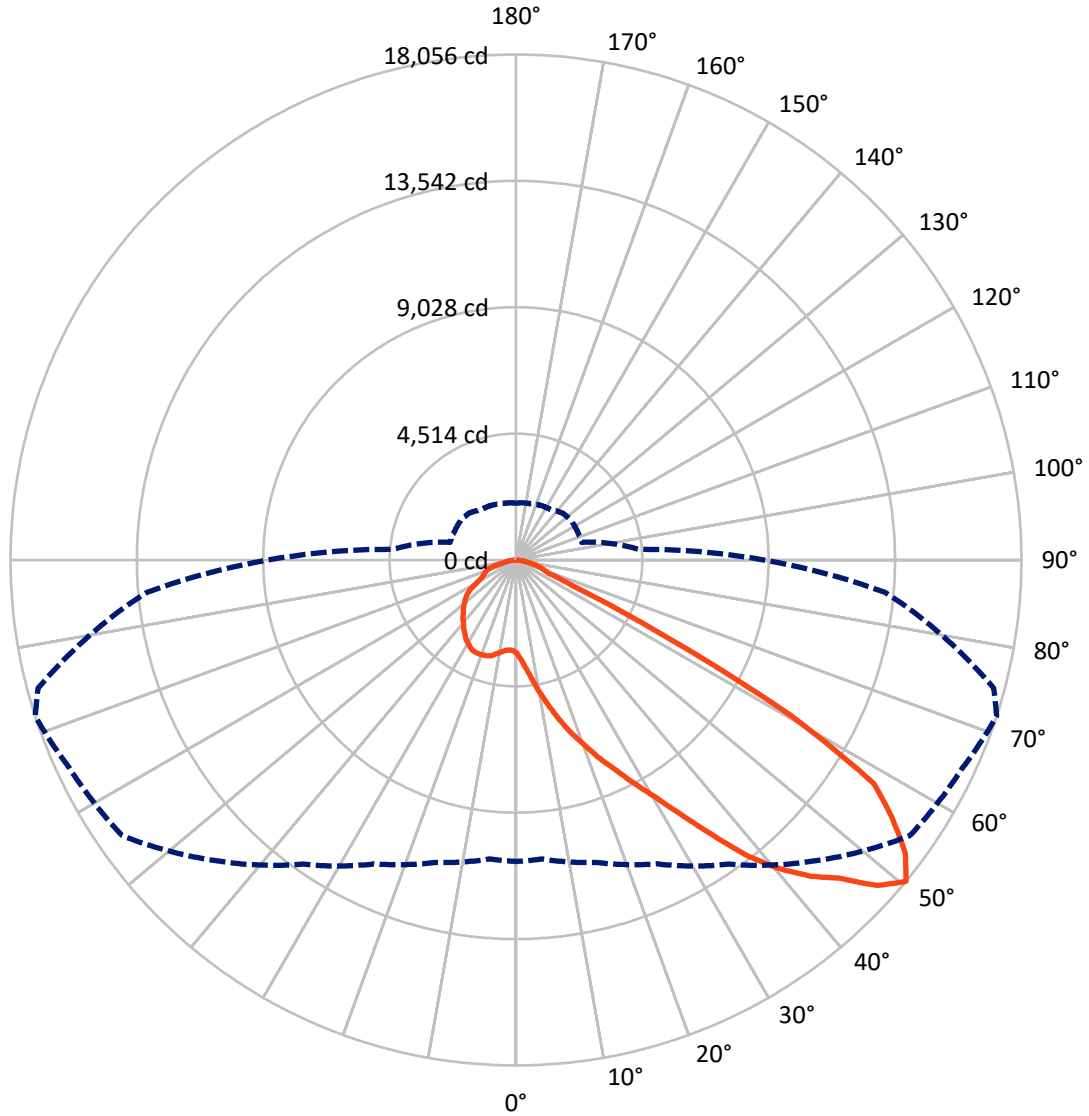
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	5465.3	0.0	5465.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	18389.7	0.0	18389.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	23855.0	0.0	23855.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.6	1.6
10°-20°	1460.2	6.1
20°-30°	2831.3	11.9
30°-40°	4690.5	19.7
40°-50°	6563.0	27.5
50°-60°	5536.8	23.2
60°-70°	1687.6	7.1
70°-80°	592.1	2.5
80°-90°	102.9	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°	23855.0	100.0
0°-180°	23855.0	100.0

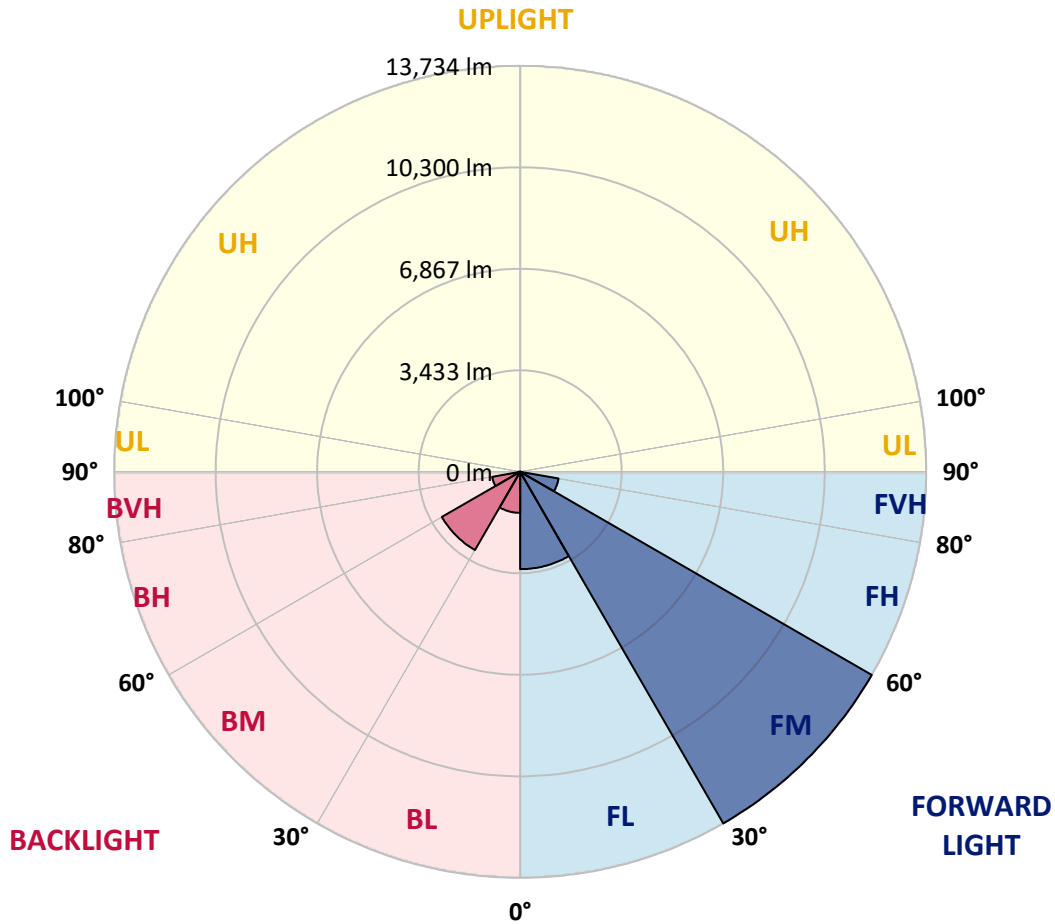


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3292.8	13.8			
FM (30°-60°)	13734.0	57.6			
FH (60°-80°)	1316.8	5.5			G1/1800
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	1389.3	5.8	B3/2500		
BM (30°-60°)	3056.3	12.8	B3/5000		
BH (60°-80°)	962.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	56.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8
2.5°	4271.3	4244.7	4165.0	4138.5	4044.0	3872.8	3813.8	3639.6	3565.8	3497.9	3418.2
5°	5401.9	5277.9	5269.0	5118.5	4900.1	4773.1	4395.3	4141.4	3908.2	3790.2	3571.7
7.5°	6122.1	6125.1	6125.1	6001.1	5826.9	5505.2	5165.7	4708.2	4356.9	4182.8	3810.8
10°	6806.9	6747.9	6715.4	6703.6	6585.6	6272.7	5909.6	5342.8	4861.7	4658.0	3990.9
12.5°	7291.0	7240.9	7314.7	7276.3	7190.7	6987.0	6644.6	5998.1	5396.0	5121.4	4280.2
15°	7521.3	7556.7	7615.7	7722.0	7683.6	7606.9	7229.1	6671.2	5971.6	5661.6	4537.0
17.5°	7875.5	7778.1	7848.9	7981.8	8088.0	8052.6	7837.1	7158.2	6541.3	6160.5	4882.3
20°	8123.5	8067.4	8102.8	8256.3	8336.0	8536.7	8424.5	7795.8	7087.4	6685.9	5289.7
22.5°	8831.9	8749.3	8634.1	8657.7	8687.3	8829.0	8855.5	8495.4	7722.0	7296.9	5676.4
25°	9705.6	9628.9	9493.1	9354.4	9268.8	9242.2	9333.7	9044.4	8330.1	7890.3	6092.6
27.5°	10667.9	10538.1	10452.5	10166.1	9935.9	9900.5	9856.2	9699.7	9050.3	8575.1	6561.9
30°	11603.7	11500.4	11385.2	10927.7	10688.6	10650.2	10431.8	10476.1	9832.6	9304.2	7093.3
32.5°	12312.1	12321.0	12058.3	11712.9	11488.6	11284.9	11205.2	11332.1	10836.2	10411.1	7686.6
35°	12884.8	12911.3	12660.4	12347.5	12105.5	12247.2	12211.8	12270.8	12034.6	11515.1	8377.3
37.5°	13442.7	13309.8	13041.2	12890.7	12763.8	12996.9	13298.0	13348.2	13392.5	12781.5	9180.2
40°	13534.2	13546.0	13389.5	13495.8	13336.4	13687.7	14387.3	14322.3	14502.4	13968.1	10051.0
42.5°	13404.3	13430.9	13492.9	13643.4	14027.1	14449.3	15488.3	15222.6	15441.1	14965.8	10898.2
45°	13191.8	13082.6	13159.3	13732.0	14396.1	15334.8	16494.9	16288.3	16217.4	15818.9	11907.7
47.5°	12176.3	12288.5	12527.6	13233.1	14230.8	15488.3	17209.2	17162.0	17374.5	17094.1	12825.7
50°	10768.3	10724.0	11184.5	11978.6	13265.6	15187.2	17170.9	17598.9	18056.4	17666.8	13236.0
52.5°	8064.4	8300.6	8696.1	9682.0	11518.1	13546.0	16332.5	17046.9	17418.8	17336.2	12905.4
55°	5097.8	5168.7	5407.8	6579.7	8232.7	10871.6	14000.6	15656.6	16320.7	16630.7	12601.4
57.5°	2476.6	2343.8	2636.0	3577.6	4755.4	7311.7	10797.8	13637.5	15080.9	15641.8	11940.2
60°	1292.9	1343.1	1458.2	1794.7	2458.9	3796.1	6730.2	9088.7	11293.7	12155.7	9050.3
62.5°	1071.5	1089.2	1166.0	1334.2	1635.3	2184.4	3435.9	4430.7	5759.0	6535.4	5148.0
65°	909.2	918.0	1000.7	1112.8	1304.7	1537.9	1768.2	1850.8	2240.4	2299.5	1830.1
67.5°	758.6	767.5	856.0	962.3	1086.3	1148.3	1207.3	1201.4	1245.7	1228.0	1225.0
70°	584.5	593.3	684.8	797.0	859.0	823.6	1006.6	1047.9	1065.6	1080.4	1104.0
72.5°	422.1	439.8	510.7	590.4	557.9	640.5	829.5	891.5	915.1	923.9	953.4
75°	307.0	312.9	330.6	307.0	354.2	445.7	584.5	661.2	690.7	699.6	743.9
77.5°	135.8	138.7	141.7	177.1	227.3	277.5	348.3	410.3	451.6	463.4	475.2
80°	70.8	73.8	91.5	121.0	162.4	203.7	253.9	289.3	315.8	318.8	330.6
82.5°	44.3	47.2	64.9	85.6	115.1	150.5	186.0	215.5	236.1	239.1	242.1
85°	20.7	26.6	38.4	53.1	76.7	97.4	100.4	85.6	91.5	94.5	88.6
87.5°	5.9	8.9	11.8	8.9	11.8	11.8	14.8	17.7	17.7	17.7	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°	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8	3320.8
2.5°	3374.0	3347.4	3244.1	3205.7	3105.3	3123.0	3069.9	3067.0	3055.2	3052.2	3049.3
5°	3456.6	3374.0	3250.0	3155.5	3099.4	3093.5	3055.2	3055.2	3067.0	3075.8	3055.2
7.5°	3592.4	3497.9	3288.3	3199.8	3149.6	3140.8	3114.2	3093.5	3120.1	3111.2	3087.6
10°	3748.8	3583.5	3362.1	3285.4	3202.7	3182.1	3182.1	3190.9	3146.7	3161.4	3137.8
12.5°	3923.0	3701.6	3456.6	3368.0	3270.6	3258.8	3252.9	3188.0	3211.6	3199.8	3140.8
15°	4144.4	3837.4	3577.6	3427.1	3344.4	3291.3	3214.6	3202.7	3188.0	3158.5	3131.9
17.5°	4383.5	3985.0	3633.7	3444.8	3320.8	3282.4	3223.4	3161.4	3117.1	3123.0	3102.4
20°	4587.2	4120.8	3654.4	3462.5	3303.1	3229.3	3137.8	3099.4	3052.2	3049.3	3046.3
22.5°	4829.2	4303.8	3683.9	3415.3	3250.0	3173.2	3111.2	3043.3	3010.9	2969.6	2990.2
25°	5118.5	4374.6	3689.8	3388.7	3211.6	3075.8	3043.3	2969.6	2957.7	2898.7	2910.5
27.5°	5328.1	4413.0	3642.6	3306.1	3123.0	3019.7	2960.7	2907.6	2886.9	2842.6	2830.8
30°	5608.5	4472.0	3542.2	3202.7	3034.5	2919.4	2883.9	2872.1	2813.1	2765.9	2760.0
32.5°	5927.3	4510.4	3477.3	3096.5	2943.0	2854.4	2872.1	2816.1	2742.3	2700.9	2689.1
35°	6181.2	4525.2	3314.9	2975.5	2881.0	2824.9	2804.2	2792.4	2686.2	2647.8	2618.3
37.5°	6567.8	4492.7	3179.1	2889.9	2813.1	2792.4	2774.7	2695.0	2574.0	2517.9	2476.6
40°	7019.5	4483.8	3005.0	2768.8	2748.2	2771.8	2718.6	2594.7	2426.4	2364.4	2334.9
42.5°	7453.4	4545.8	2895.8	2703.9	2677.3	2686.2	2612.4	2426.4	2343.8	2308.3	2261.1
45°	8179.5	4675.7	2715.7	2603.5	2591.7	2585.8	2497.3	2302.4	2255.2	2210.9	2202.1
47.5°	8834.9	4590.1	2600.6	2500.2	2512.0	2479.5	2290.6	2228.6	2175.5	2131.2	2116.5
50°	8873.2	4386.4	2438.2	2420.5	2423.5	2367.4	2187.3	2146.0	2078.1	2048.6	2027.9
52.5°	8672.5	4052.9	2287.7	2293.6	2302.4	2210.9	2060.4	2030.9	1974.8	1933.5	1921.6
55°	8108.7	3533.4	2140.1	2163.7	2187.3	2013.2	1965.9	1892.1	1847.9	1788.8	1791.8
57.5°	7143.5	2845.6	1933.5	1971.8	2022.0	1830.1	1794.7	1703.2	1638.3	1591.0	1585.1
60°	4787.9	2025.0	1623.5	1638.3	1750.4	1673.7	1670.7	1579.2	1490.7	1449.4	1425.7
62.5°	2824.9	1546.8	1402.1	1387.4	1384.4	1428.7	1502.5	1470.0	1354.9	1275.2	1298.8
65°	1478.9	1337.2	1304.7	1254.5	1225.0	1213.2	1269.3	1284.1	1207.3	1121.7	1115.8
67.5°	1242.7	1242.7	1216.2	1198.4	1157.1	1106.9	1071.5	1024.3	1012.5	988.9	959.3
70°	1130.6	1160.1	1151.2	1109.9	1074.5	1018.4	926.9	850.1	776.3	749.8	767.5
72.5°	985.9	1015.4	1015.4	994.8	947.5	861.9	773.4	684.8	622.8	575.6	569.7
75°	758.6	773.4	808.8	785.2	723.2	670.1	578.6	487.1	428.0	383.7	374.9
77.5°	484.1	507.7	507.7	504.8	460.5	410.3	351.3	286.3	242.1	209.6	200.7
80°	321.8	336.5	348.3	336.5	307.0	268.6	224.3	180.1	147.6	121.0	115.1
82.5°	236.1	253.9	262.7	250.9	221.4	191.9	159.4	126.9	94.5	73.8	67.9
85°	91.5	94.5	106.3	126.9	124.0	121.0	97.4	70.8	53.1	38.4	35.4
87.5°	23.6	20.7	23.6	23.6	20.7	17.7	17.7	17.7	17.7	8.9	11.8
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)