

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: P527296

Luminaire Tested: **GALN-SA2B-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527296  
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-SA2B-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA 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: 9699 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

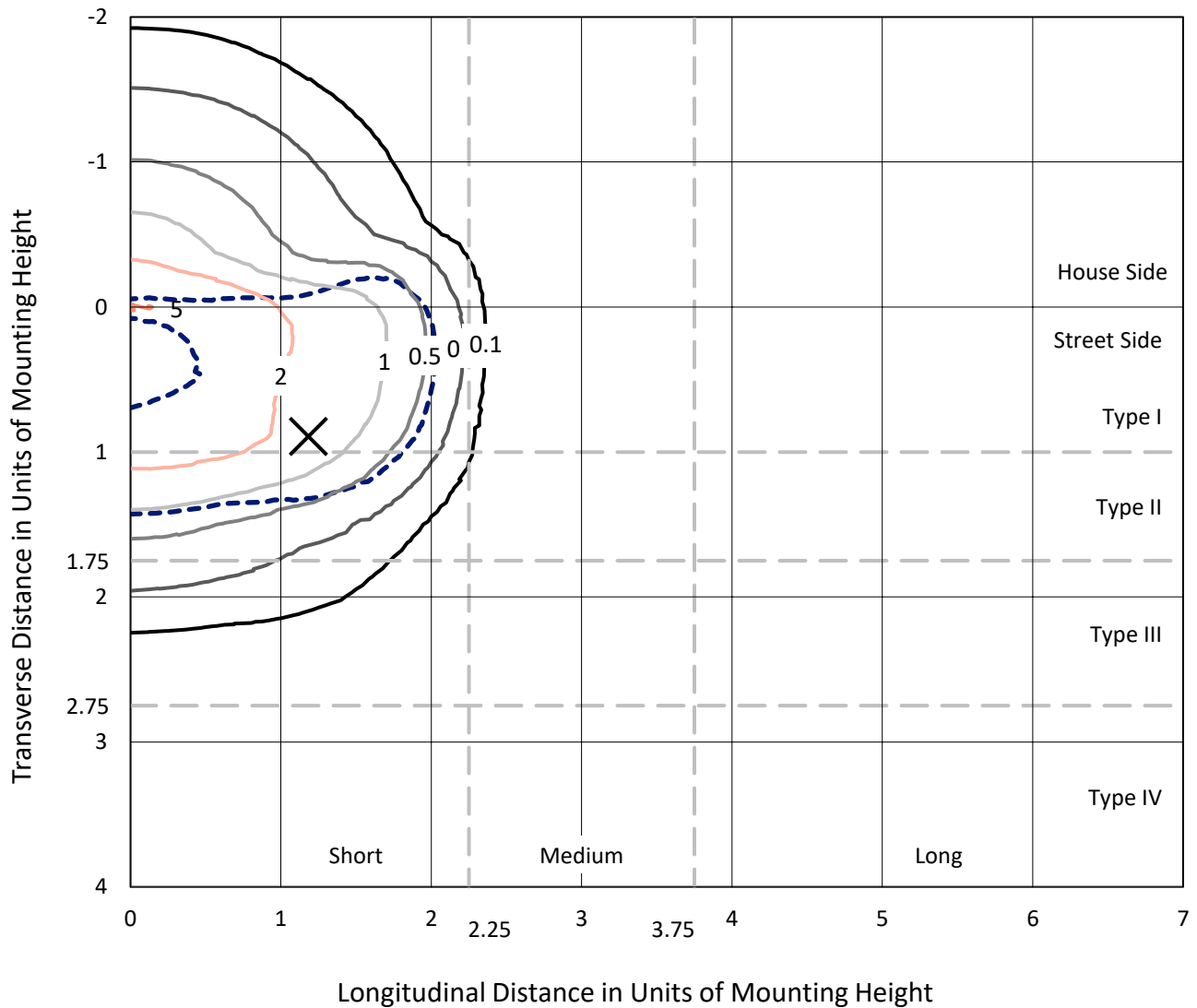
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

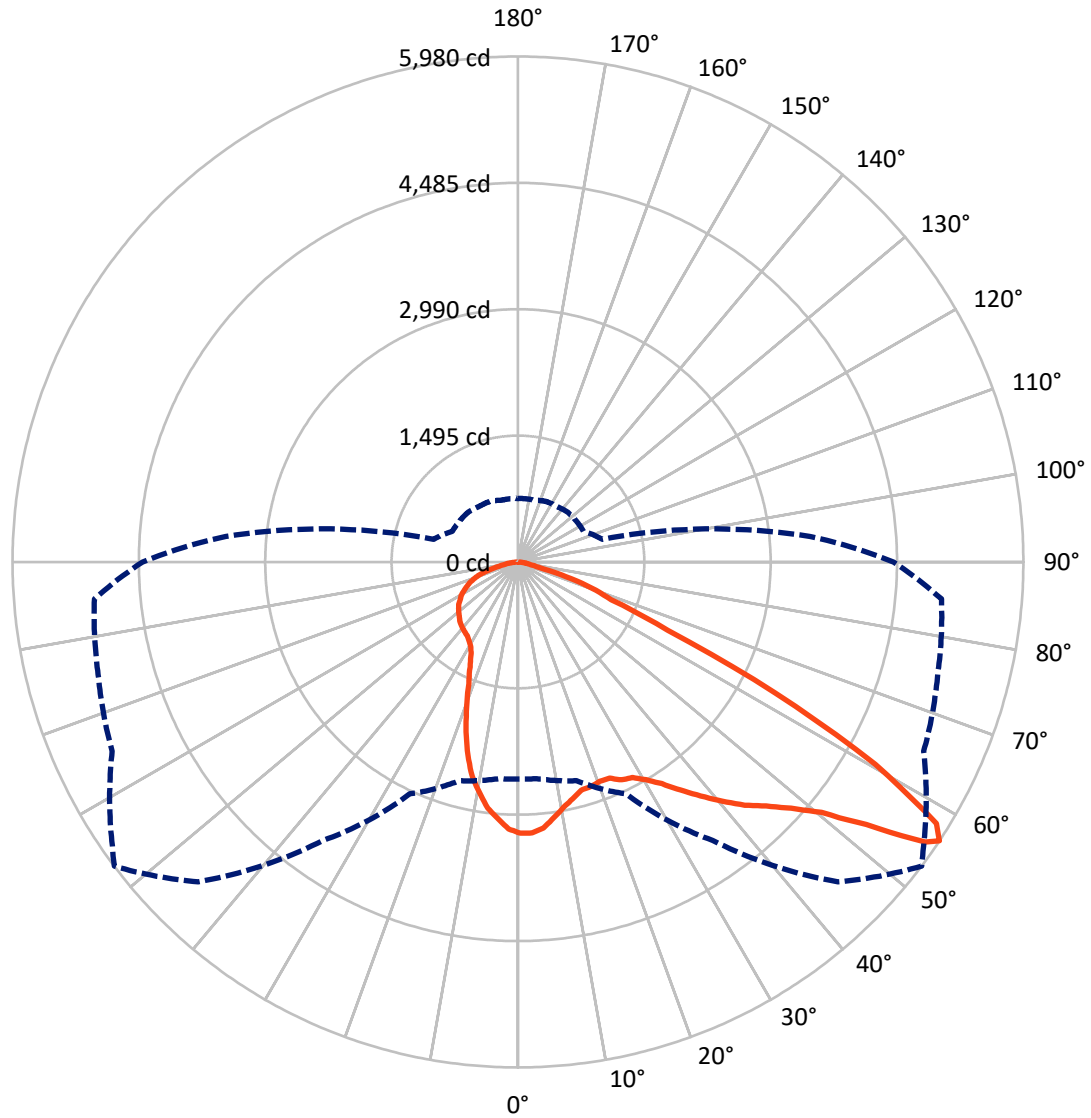
✕ Max cd  
 - - - 1/2 Max cd



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	2830.4	0.0	2830.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	6868.6	0.0	6868.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	9699.0	0.0	9699.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.1	2.9
10°-20°	709.5	7.3
20°-30°	1046.2	10.8
30°-40°	1494.8	15.4
40°-50°	2057.4	21.2
50°-60°	2431.3	25.1
60°-70°	1295.7	13.4
70°-80°	328.7	3.4
80°-90°	51.3	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°	9699.0	100.0
0°-180°	9699.0	100.0

**Coefficient of Utilization**



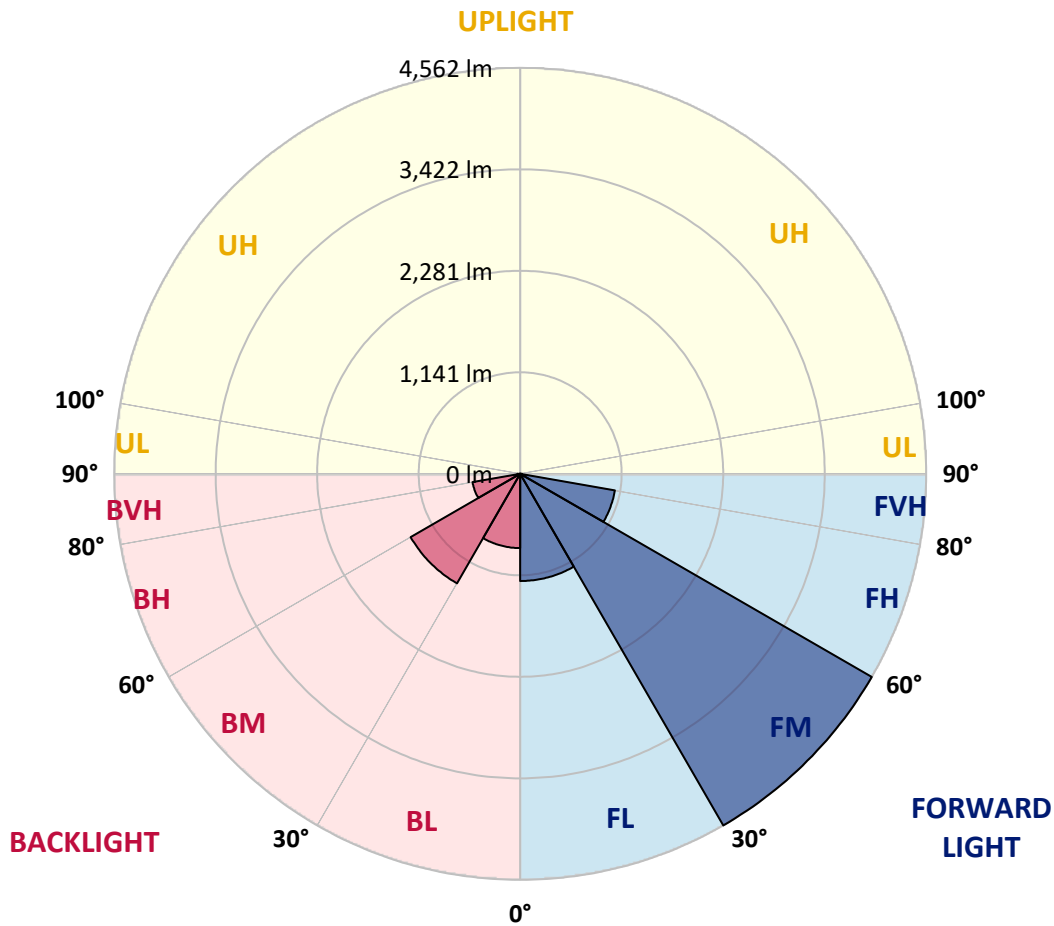
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.0	12.4			
FM (30°-60°)	4562.2	47.0			
FH (60°-80°)	1080.8	11.1			G1/1800
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	834.8	8.6	B2/1000		
BM (30°-60°)	1421.3	14.7	B2/2500		
BH (60°-80°)	543.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	30.7	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°	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8
2.5°	3169.0	3141.6	3157.8	3151.6	3202.6	3217.5	3210.1	3216.3	3244.9	3231.2	3202.6
5°	2961.2	2999.8	3007.2	3025.9	3055.8	3114.3	3160.3	3172.7	3186.4	3249.9	3243.6
7.5°	2772.1	2798.2	2784.5	2839.3	2904.0	2998.5	3054.5	3064.5	3190.1	3225.0	3251.1
10°	2652.7	2626.5	2688.7	2703.7	2777.1	2885.3	2952.5	2993.6	3108.0	3246.1	3262.3
12.5°	2541.9	2533.2	2570.5	2612.8	2695.0	2806.9	2875.4	2891.5	3068.2	3213.8	3289.7
15°	2459.8	2449.8	2487.2	2518.3	2614.1	2713.6	2800.7	2846.7	3024.7	3195.1	3266.0
17.5°	2395.1	2393.9	2415.0	2471.0	2569.3	2652.7	2793.2	2795.7	3002.3	3223.7	3286.0
20°	2391.4	2390.1	2393.9	2456.1	2545.6	2647.7	2769.6	2792.0	3002.3	3203.8	3287.2
22.5°	2422.5	2402.6	2425.0	2464.8	2529.5	2656.4	2778.3	2828.1	3074.4	3302.1	3343.2
25°	2472.2	2477.2	2489.7	2503.3	2540.7	2676.3	2855.5	2896.5	3159.0	3386.7	3420.3
27.5°	2563.1	2560.6	2565.6	2573.0	2605.4	2695.0	2886.6	2992.3	3335.7	3537.3	3503.7
30°	2696.2	2687.5	2707.4	2733.5	2703.7	2754.7	2989.8	3069.5	3500.0	3689.1	3597.0
32.5°	2816.9	2849.2	2886.6	2897.8	2861.7	2871.6	3126.7	3207.6	3636.8	3875.7	3711.5
35°	2967.4	2993.6	3043.3	3078.2	3071.9	3042.1	3313.3	3420.3	3834.6	4012.6	3832.2
37.5°	3114.3	3145.4	3227.5	3330.7	3273.5	3259.8	3512.4	3600.7	3895.6	4086.0	3920.5
40°	3350.7	3349.4	3491.2	3544.7	3595.8	3572.1	3718.9	3748.8	3928.0	4069.8	3923.0
42.5°	3628.1	3610.7	3755.0	3838.4	3904.3	3906.8	3934.2	3924.2	3942.9	3987.7	3896.9
45°	3891.9	3929.2	4074.8	4224.1	4290.0	4297.5	4115.8	4097.2	3969.0	3964.0	3847.1
47.5°	4214.1	4222.8	4342.3	4538.9	4691.9	4639.7	4351.0	4309.9	4083.5	4122.1	3930.5
50°	4232.8	4297.5	4404.5	4635.9	5106.2	5092.5	4655.8	4578.7	4267.6	4346.0	4163.1
52.5°	3842.1	3827.2	3954.1	4332.3	5075.1	5542.9	5161.0	4976.8	4663.3	4603.6	4540.1
55°	2927.6	2962.5	3074.4	3456.4	4407.0	5549.2	5849.0	5698.5	5086.3	4984.3	4910.9
56°	2568.0	2573.0	2678.8	3027.2	4021.3	5351.3	5979.7	5857.7	5296.6	5141.1	5029.1
57.5°	2128.8	2100.2	2155.0	2345.3	3394.2	4933.3	5836.6	5956.0	5542.9	5310.3	5154.8
60°	1675.9	1669.7	1647.3	1682.2	2145.0	3716.4	4858.6	5127.4	5518.1	5151.0	4937.0
62.5°	1368.6	1337.5	1382.3	1432.1	1490.6	2305.5	3414.1	3572.1	4380.9	4112.1	3709.0
65°	1061.3	1046.4	1102.4	1264.1	1299.0	1464.4	1944.7	2066.6	2586.7	2540.7	2237.1
67.5°	730.3	732.8	781.4	1027.7	1204.4	1189.5	1190.7	1254.2	1350.0	1002.8	873.4
70°	462.8	461.6	487.7	661.9	969.2	979.2	929.4	910.8	863.5	522.6	553.7
72.5°	297.4	288.7	302.3	365.8	501.4	579.8	597.2	608.4	500.2	410.6	445.4
75°	168.0	159.3	154.3	170.5	197.8	228.9	251.3	258.8	289.9	311.1	329.7
77.5°	51.0	46.0	56.0	74.7	98.3	131.9	160.5	165.5	195.3	220.2	238.9
80°	22.4	24.9	34.8	49.8	69.7	93.3	113.2	120.7	140.6	159.3	164.2
82.5°	13.7	14.9	23.6	33.6	48.5	65.9	80.9	83.4	103.3	118.2	121.9
85°	5.0	6.2	12.4	19.9	31.1	42.3	42.3	46.0	42.3	42.3	46.0
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	5.0	5.0	6.2	7.5	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°	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8	3208.8
2.5°	3217.5	3211.3	3201.3	3165.3	3161.5	3150.3	3088.1	3078.2	3088.1	3058.3	3060.8
5°	3211.3	3230.0	3155.3	3119.2	3052.0	3003.5	2947.5	2918.9	2867.9	2835.5	2871.6
7.5°	3238.7	3231.2	3137.9	3059.5	2958.7	2835.5	2737.3	2681.3	2591.7	2566.8	2585.5
10°	3228.7	3188.9	3079.4	2976.1	2785.8	2677.5	2518.3	2364.0	2279.4	2235.8	2229.6
12.5°	3215.0	3203.8	3020.9	2843.0	2642.7	2415.0	2191.0	2045.5	1907.4	1847.6	1856.4
15°	3231.2	3136.6	2911.4	2686.2	2420.0	2121.4	1880.0	1692.1	1596.3	1557.7	1557.7
17.5°	3223.7	3104.3	2859.2	2510.8	2173.6	1820.3	1555.3	1442.0	1402.2	1402.2	1413.4
20°	3227.5	3125.4	2753.4	2335.4	1882.5	1532.9	1340.0	1299.0	1316.4	1322.6	1328.8
22.5°	3248.6	3055.8	2650.2	2142.5	1612.5	1311.4	1216.8	1218.1	1249.2	1282.8	1276.6
25°	3274.8	3028.4	2524.5	1950.9	1406.0	1203.1	1173.3	1169.6	1193.2	1210.6	1213.1
27.5°	3252.4	2981.1	2396.3	1712.0	1236.7	1131.0	1124.8	1127.3	1134.7	1169.6	1158.4
30°	3325.8	2994.8	2235.8	1511.7	1143.4	1107.3	1099.9	1096.1	1107.3	1117.3	1108.6
32.5°	3416.6	2946.3	2116.4	1318.9	1097.4	1089.9	1075.0	1070.0	1076.2	1066.3	1071.3
35°	3456.4	2937.6	1960.9	1180.8	1061.3	1055.1	1046.4	1045.1	1046.4	1037.7	1030.2
37.5°	3478.8	2978.6	1782.9	1117.3	1038.9	1045.1	1025.2	1022.7	1000.3	1005.3	1009.1
40°	3517.4	2915.2	1638.6	1056.3	1025.2	1012.8	995.4	991.6	976.7	968.0	976.7
42.5°	3461.4	2896.5	1496.8	1030.2	1005.3	991.6	979.2	958.0	953.1	945.6	940.6
45°	3416.6	2789.5	1369.9	997.9	981.7	974.2	950.6	928.2	909.5	917.0	905.8
47.5°	3450.2	2752.2	1244.2	970.5	949.3	940.6	917.0	899.6	880.9	872.2	869.7
50°	3584.6	2821.9	1138.4	950.6	922.0	917.0	885.9	866.0	848.5	842.3	844.8
52.5°	3905.6	3012.2	1066.3	909.5	895.8	873.4	856.0	831.1	819.9	800.0	812.5
55°	4312.4	3322.0	1047.6	870.9	863.5	843.6	819.9	801.3	780.1	763.9	760.2
56°	4443.1	3470.1	1032.7	856.0	843.6	832.4	801.3	790.1	756.5	752.7	750.3
57.5°	4548.8	3600.7	1035.2	827.4	815.0	805.0	786.3	759.0	736.6	722.9	729.1
60°	4309.9	3370.6	987.9	783.9	781.4	762.7	736.6	724.1	696.8	680.6	676.8
62.5°	3203.8	2288.1	801.3	727.9	726.6	706.7	676.8	663.2	658.2	635.8	635.8
65°	1845.2	1434.6	693.0	681.8	671.9	652.0	622.1	610.9	598.5	591.0	584.8
67.5°	787.6	744.0	629.6	628.3	617.1	592.2	562.4	545.0	528.8	513.9	521.3
70°	571.1	579.8	568.6	562.4	548.7	517.6	491.5	470.3	445.4	435.5	442.9
72.5°	452.9	471.6	487.7	489.0	472.8	436.7	408.1	379.5	352.1	338.4	344.6
75°	343.4	355.8	372.0	375.8	352.1	327.2	299.9	270.0	248.8	232.7	235.2
77.5°	247.6	245.1	260.0	257.6	246.4	228.9	204.1	176.7	153.0	138.1	139.4
80°	169.2	172.9	181.7	180.4	166.7	155.5	136.9	114.5	97.0	84.6	82.1
82.5°	118.2	124.4	131.9	125.7	114.5	103.3	89.6	73.4	59.7	49.8	47.3
85°	42.3	48.5	56.0	59.7	63.5	61.0	51.0	41.1	29.9	24.9	23.6
87.5°	8.7	10.0	11.2	11.2	11.2	10.0	8.7	8.7	7.5	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)