

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: P527504

Luminaire Tested: **GALN-SA2C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527504  
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-SA2C-735-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA 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: 11163 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

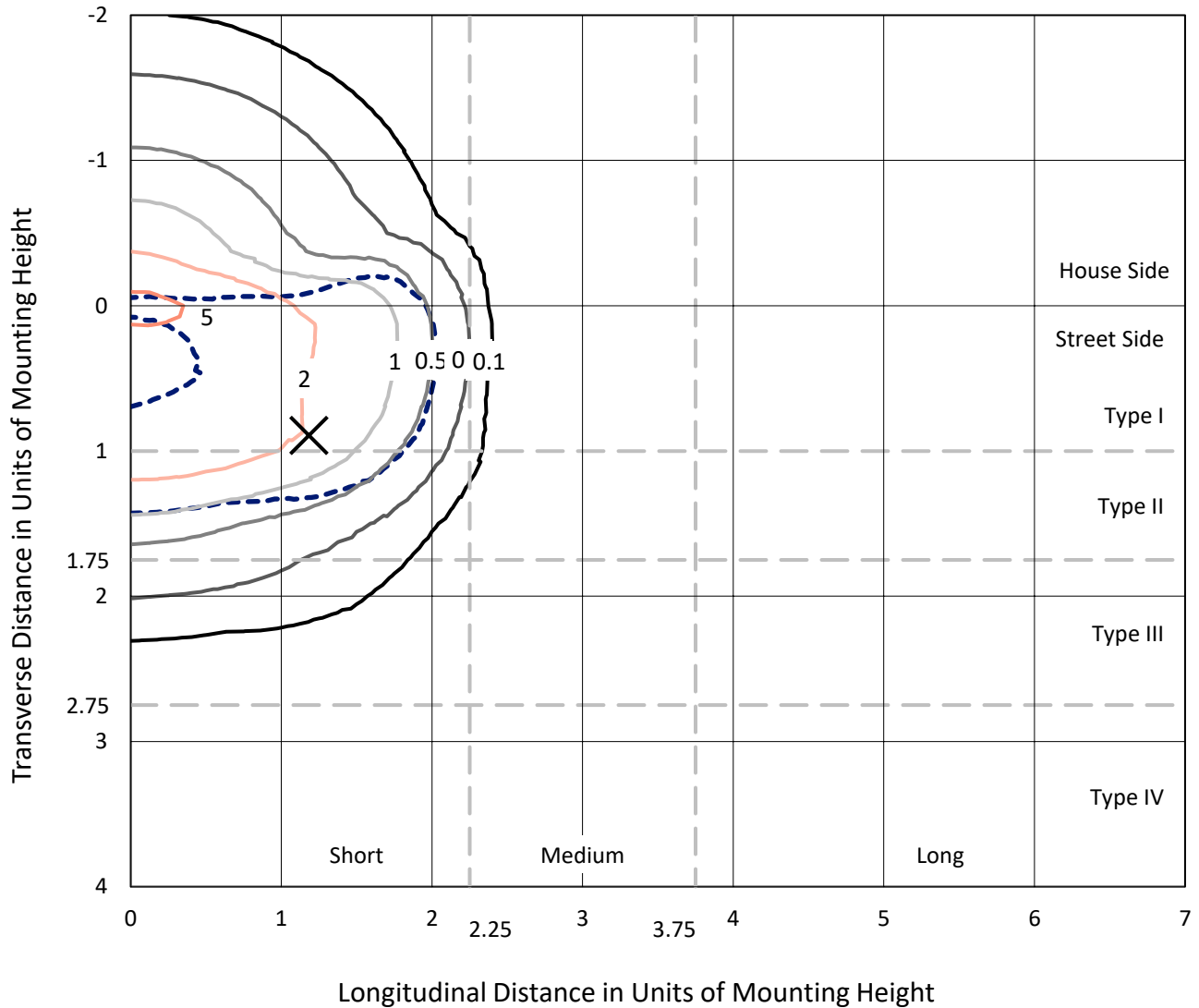
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

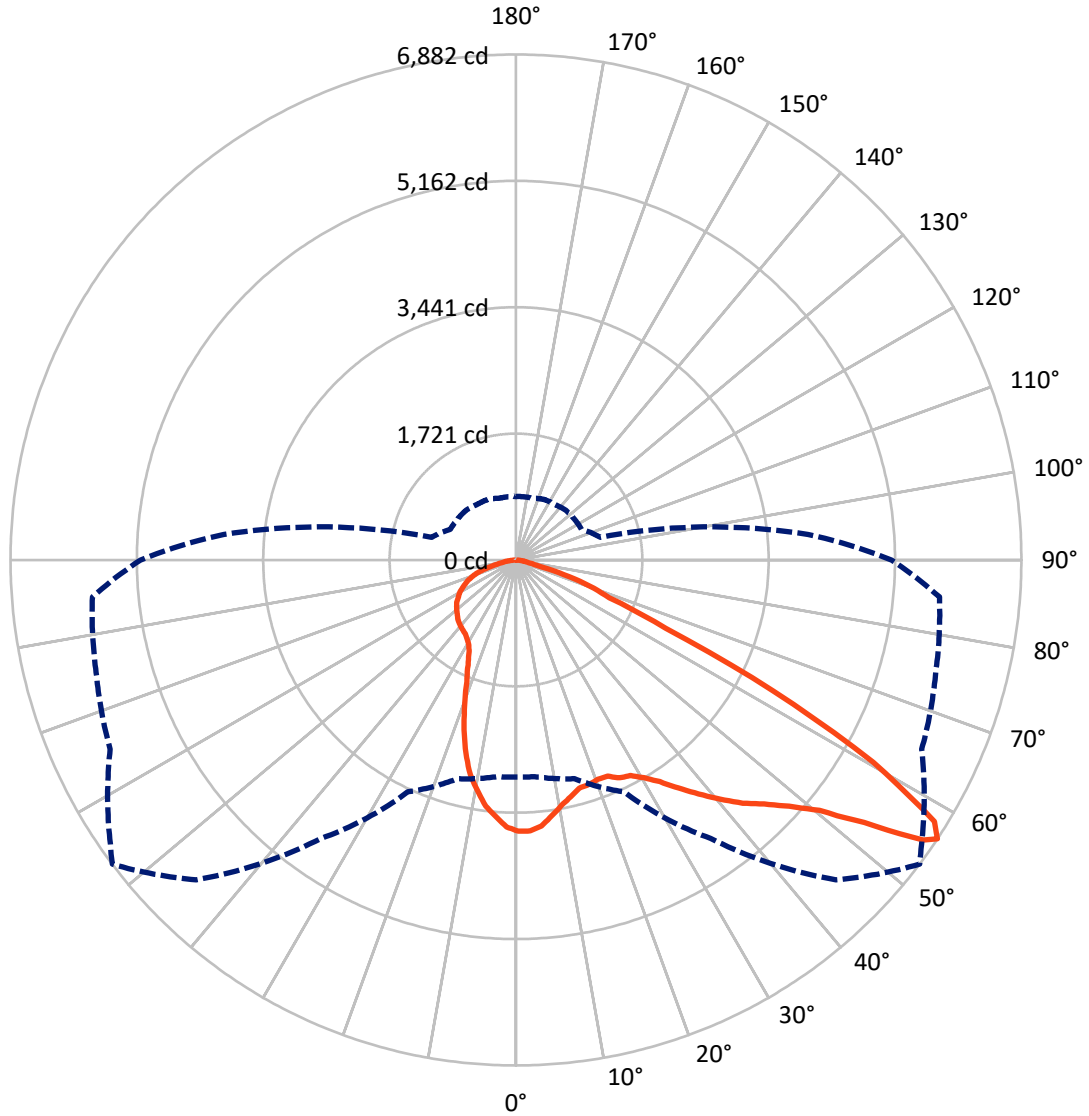
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3257.6	0.0	3257.6
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	7905.4	0.0	7905.4
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	11163.0	0.0	11163.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.9	2.9
10°-20°	816.6	7.3
20°-30°	1204.1	10.8
30°-40°	1720.4	15.4
40°-50°	2368.0	21.2
50°-60°	2798.3	25.1
60°-70°	1491.3	13.4
70°-80°	378.3	3.4
80°-90°	59.0	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°	11163.0	100.0
0°-180°	11163.0	100.0



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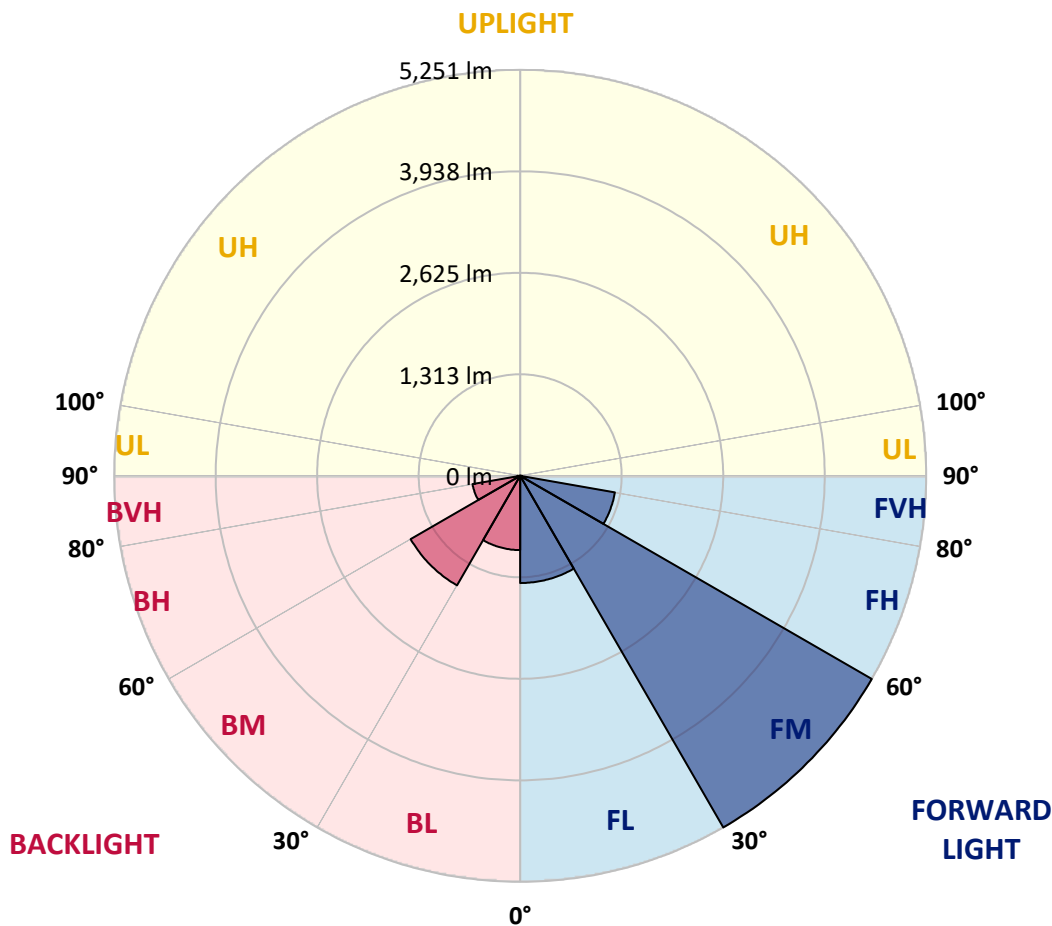
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.8	12.4			
FM (30°-60°)	5250.9	47.0			
FH (60°-80°)	1244.0	11.1			G1/1800
FVH (80°-90°)	23.7	0.2			G1/100
BL (0°-30°)	960.8	8.6	B2/1000		
BM (30°-60°)	1635.9	14.7	B2/2500		
BH (60°-80°)	625.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.3	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°	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2
2.5°	3647.3	3615.8	3634.4	3627.3	3686.0	3703.2	3694.6	3701.8	3734.7	3718.9	3686.0
5°	3408.2	3452.6	3461.2	3482.7	3517.0	3584.3	3637.3	3651.6	3667.4	3740.4	3733.3
7.5°	3190.5	3220.6	3204.8	3267.9	3342.3	3451.2	3515.6	3527.0	3671.7	3711.8	3741.8
10°	3053.1	3023.0	3094.6	3111.8	3196.3	3320.8	3398.2	3445.4	3577.2	3736.1	3754.7
12.5°	2925.6	2915.6	2958.5	3007.2	3101.7	3230.6	3309.4	3328.0	3531.3	3698.9	3786.2
15°	2831.1	2819.6	2862.6	2898.4	3008.7	3123.2	3223.5	3276.4	3481.2	3677.4	3759.0
17.5°	2756.6	2755.2	2779.5	2844.0	2957.1	3053.1	3214.9	3217.7	3455.4	3710.3	3781.9
20°	2752.3	2750.9	2755.2	2826.8	2929.9	3047.3	3187.7	3213.4	3455.4	3687.4	3783.4
22.5°	2788.1	2765.2	2791.0	2836.8	2911.3	3057.3	3197.7	3255.0	3538.5	3800.6	3847.8
25°	2845.4	2851.1	2865.5	2881.2	2924.2	3080.3	3286.5	3333.7	3635.9	3897.9	3936.6
27.5°	2949.9	2947.1	2952.8	2961.4	2998.6	3101.7	3322.3	3444.0	3839.2	4071.2	4032.5
30°	3103.2	3093.1	3116.1	3146.1	3111.8	3170.5	3441.1	3532.8	4028.3	4245.9	4139.9
32.5°	3242.1	3279.3	3322.3	3335.2	3293.6	3305.1	3598.6	3691.7	4185.8	4460.7	4271.7
35°	3415.3	3445.4	3502.7	3542.8	3535.6	3501.3	3813.4	3936.6	4413.5	4618.2	4410.6
37.5°	3584.3	3620.1	3714.6	3833.5	3767.6	3751.9	4042.6	4144.2	4483.6	4702.7	4512.3
40°	3856.4	3855.0	4018.2	4079.8	4138.5	4111.3	4280.3	4314.7	4520.9	4684.1	4515.1
42.5°	4175.7	4155.7	4321.8	4417.8	4493.7	4496.5	4528.0	4516.6	4538.0	4589.6	4485.1
45°	4479.3	4522.3	4689.8	4861.7	4937.6	4946.2	4737.1	4715.6	4568.1	4562.4	4427.8
47.5°	4850.2	4860.3	4997.7	5224.0	5400.1	5340.0	5007.7	4960.5	4699.9	4744.3	4523.7
50°	4871.7	4946.2	5069.3	5335.7	5877.0	5861.2	5358.6	5269.8	4911.8	5002.0	4791.5
52.5°	4422.1	4404.9	4550.9	4986.3	5841.2	6379.6	5940.0	5728.1	5367.2	5298.4	5225.4
55°	3369.5	3409.6	3538.5	3978.1	5072.2	6386.8	6731.9	6558.6	5854.1	5736.6	5652.2
56°	2955.7	2961.4	3083.1	3484.1	4628.3	6159.1	6882.3	6741.9	6096.1	5917.1	5788.2
57.5°	2450.2	2417.2	2480.2	2699.3	3906.5	5677.9	6717.6	6855.0	6379.6	6111.8	5932.8
60°	1928.9	1921.8	1896.0	1936.1	2468.8	4277.4	5592.0	5901.3	6351.0	5928.5	5682.2
62.5°	1575.2	1539.4	1591.0	1648.2	1715.6	2653.5	3929.4	4111.3	5042.1	4732.8	4268.8
65°	1221.5	1204.3	1268.8	1454.9	1495.0	1685.5	2238.2	2378.6	2977.2	2924.2	2574.8
67.5°	840.6	843.5	899.3	1182.8	1386.2	1369.0	1370.4	1443.5	1553.7	1154.2	1005.3
70°	532.7	531.3	561.3	761.8	1115.5	1127.0	1069.7	1048.2	993.8	601.4	637.2
72.5°	342.3	332.2	348.0	421.0	577.1	667.3	687.4	700.3	575.7	472.6	512.7
75°	193.3	183.3	177.6	196.2	227.7	263.5	289.3	297.9	333.7	358.0	379.5
77.5°	58.7	53.0	64.4	85.9	113.1	151.8	184.7	190.5	224.8	253.5	274.9
80°	25.8	28.6	40.1	57.3	80.2	107.4	130.3	138.9	161.8	183.3	189.0
82.5°	15.8	17.2	27.2	38.7	55.8	75.9	93.1	95.9	118.9	136.0	140.3
85°	5.7	7.2	14.3	22.9	35.8	48.7	48.7	53.0	48.7	48.7	53.0
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	5.7	5.7	7.2	8.6	10.0
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°	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2	3693.2
2.5°	3703.2	3696.0	3684.6	3643.0	3638.7	3625.9	3554.3	3542.8	3554.3	3519.9	3522.8
5°	3696.0	3717.5	3631.6	3590.1	3512.7	3456.9	3392.4	3359.5	3300.8	3263.6	3305.1
7.5°	3727.5	3718.9	3611.5	3521.3	3405.3	3263.6	3150.4	3086.0	2982.9	2954.2	2975.7
10°	3716.1	3670.2	3544.2	3425.4	3206.3	3081.7	2898.4	2720.8	2623.4	2573.3	2566.2
12.5°	3700.3	3687.4	3476.9	3272.1	3041.6	2779.5	2521.8	2354.2	2195.3	2126.5	2136.6
15°	3718.9	3610.1	3350.9	3091.7	2785.3	2441.6	2163.8	1947.5	1837.3	1792.9	1792.9
17.5°	3710.3	3572.9	3290.8	2889.8	2501.7	2095.0	1790.0	1659.7	1613.9	1613.9	1626.8
20°	3714.6	3597.2	3169.0	2687.9	2166.6	1764.2	1542.3	1495.0	1515.1	1522.2	1529.4
22.5°	3739.0	3517.0	3050.2	2465.9	1855.9	1509.3	1400.5	1401.9	1437.7	1476.4	1469.2
25°	3769.1	3485.5	2905.6	2245.4	1618.2	1384.8	1350.4	1346.1	1373.3	1393.3	1396.2
27.5°	3743.3	3431.1	2758.1	1970.4	1423.4	1301.7	1294.5	1297.4	1306.0	1346.1	1333.2
30°	3827.8	3446.9	2573.3	1739.9	1316.0	1274.5	1265.9	1261.6	1274.5	1285.9	1275.9
32.5°	3932.3	3391.0	2435.9	1517.9	1263.0	1254.4	1237.3	1231.5	1238.7	1227.2	1233.0
35°	3978.1	3381.0	2256.9	1359.0	1221.5	1214.3	1204.3	1202.9	1204.3	1194.3	1185.7
37.5°	4003.9	3428.2	2052.1	1285.9	1195.7	1202.9	1180.0	1177.1	1151.3	1157.1	1161.4
40°	4048.3	3355.2	1886.0	1215.8	1180.0	1165.7	1145.6	1141.3	1124.1	1114.1	1124.1
42.5°	3983.9	3333.7	1722.7	1185.7	1157.1	1141.3	1127.0	1102.6	1096.9	1088.3	1082.6
45°	3932.3	3210.6	1576.6	1148.5	1129.9	1121.3	1094.1	1068.3	1046.8	1055.4	1042.5
47.5°	3971.0	3167.6	1432.0	1117.0	1092.6	1082.6	1055.4	1035.3	1013.9	1003.8	1001.0
50°	4125.6	3247.8	1310.3	1094.1	1061.1	1055.4	1019.6	996.7	976.6	969.5	972.3
52.5°	4495.1	3466.9	1227.2	1046.8	1031.0	1005.3	985.2	956.6	943.7	920.8	935.1
55°	4963.4	3823.5	1205.8	1002.4	993.8	970.9	943.7	922.2	897.9	879.3	875.0
56°	5113.7	3993.9	1188.6	985.2	970.9	958.0	922.2	909.3	870.7	866.4	863.5
57.5°	5235.4	4144.2	1191.4	952.3	938.0	926.5	905.0	873.5	847.8	832.0	839.2
60°	4960.5	3879.3	1137.0	902.2	899.3	877.8	847.8	833.4	801.9	783.3	779.0
62.5°	3687.4	2633.5	922.2	837.7	836.3	813.4	779.0	763.3	757.5	731.8	731.8
65°	2123.7	1651.1	797.6	784.7	773.3	750.4	716.0	703.1	688.8	680.2	673.0
67.5°	906.5	856.3	724.6	723.2	710.3	681.6	647.3	627.2	608.6	591.4	600.0
70°	657.3	667.3	654.4	647.3	631.5	595.7	565.6	541.3	512.7	501.2	509.8
72.5°	521.3	542.7	561.3	562.8	544.2	502.6	469.7	436.8	405.3	389.5	396.7
75°	395.2	409.6	428.2	432.5	405.3	376.6	345.1	310.7	286.4	267.8	270.7
77.5°	285.0	282.1	299.3	296.4	283.5	263.5	234.9	203.3	176.1	159.0	160.4
80°	194.8	199.0	209.1	207.6	191.9	179.0	157.5	131.7	111.7	97.4	94.5
82.5°	136.0	143.2	151.8	144.6	131.7	118.9	103.1	84.5	68.7	57.3	54.4
85°	48.7	55.8	64.4	68.7	73.0	70.2	58.7	47.3	34.4	28.6	27.2
87.5°	10.0	11.5	12.9	12.9	12.9	11.5	10.0	10.0	8.6	4.3	4.3
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)