

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: P530494

Luminaire Tested: **GALN-SA5D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530494
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-SA5D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 27461 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

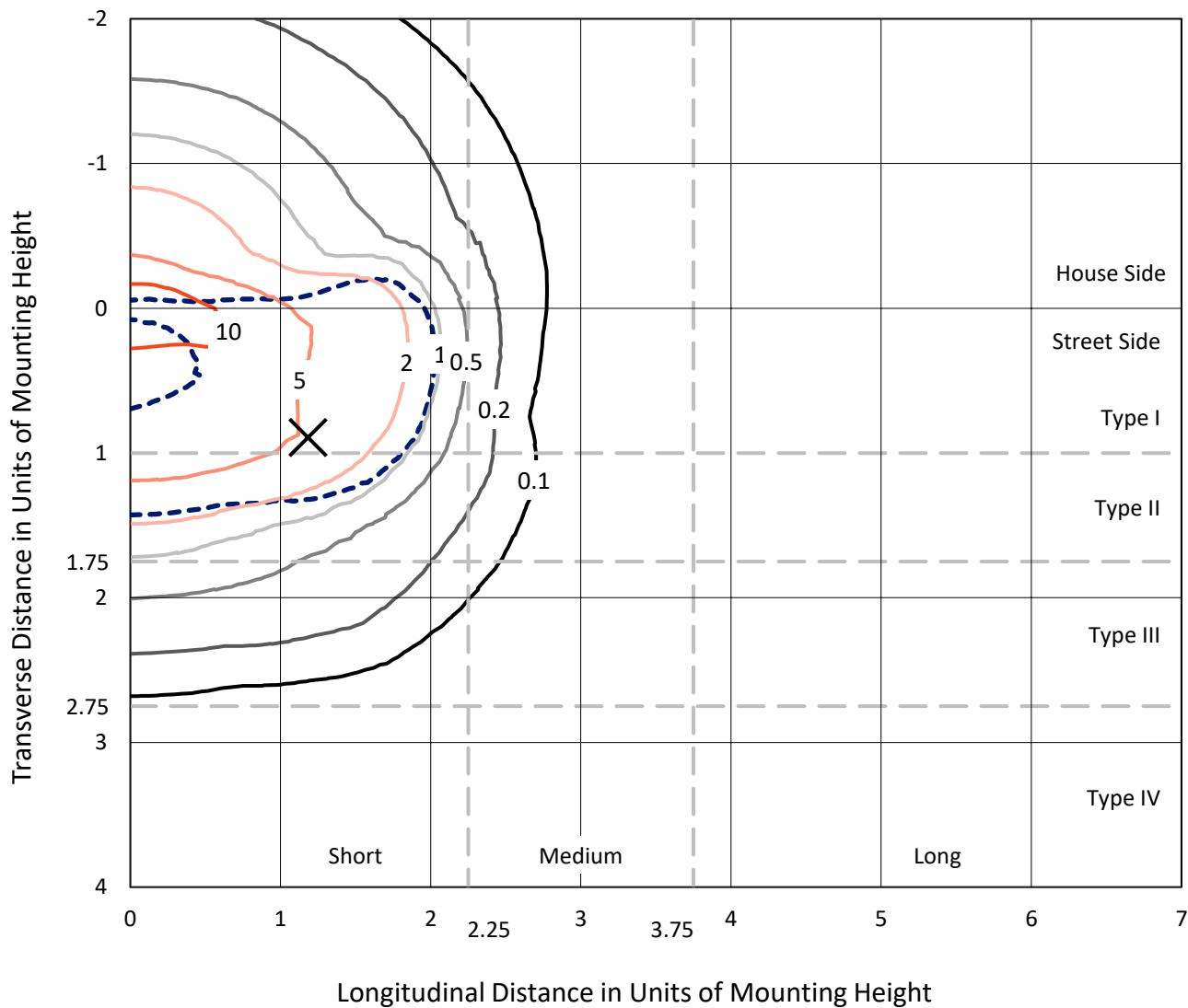
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

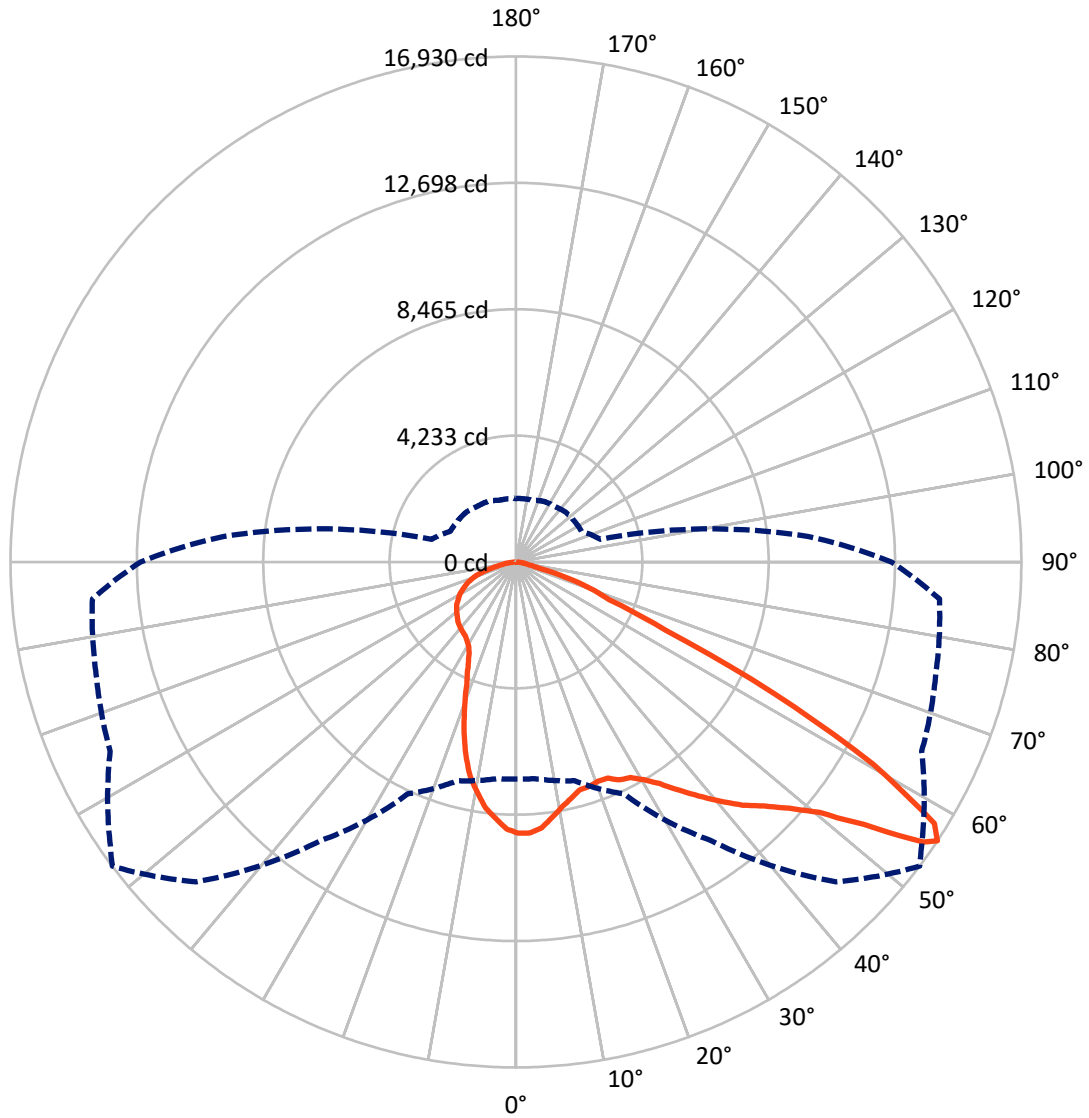
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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
House Side	Lumens	8013.7	0.0	8013.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19447.3	0.0	19447.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	27461.0	0.0	27461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.3	2.9
10°-20°	2008.8	7.3
20°-30°	2962.1	10.8
30°-40°	4232.3	15.4
40°-50°	5825.2	21.2
50°-60°	6883.8	25.1
60°-70°	3668.6	13.4
70°-80°	930.7	3.4
80°-90°	145.1	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°	27461.0	100.0
0°-180°	27461.0	100.0

Coefficient of Utilization



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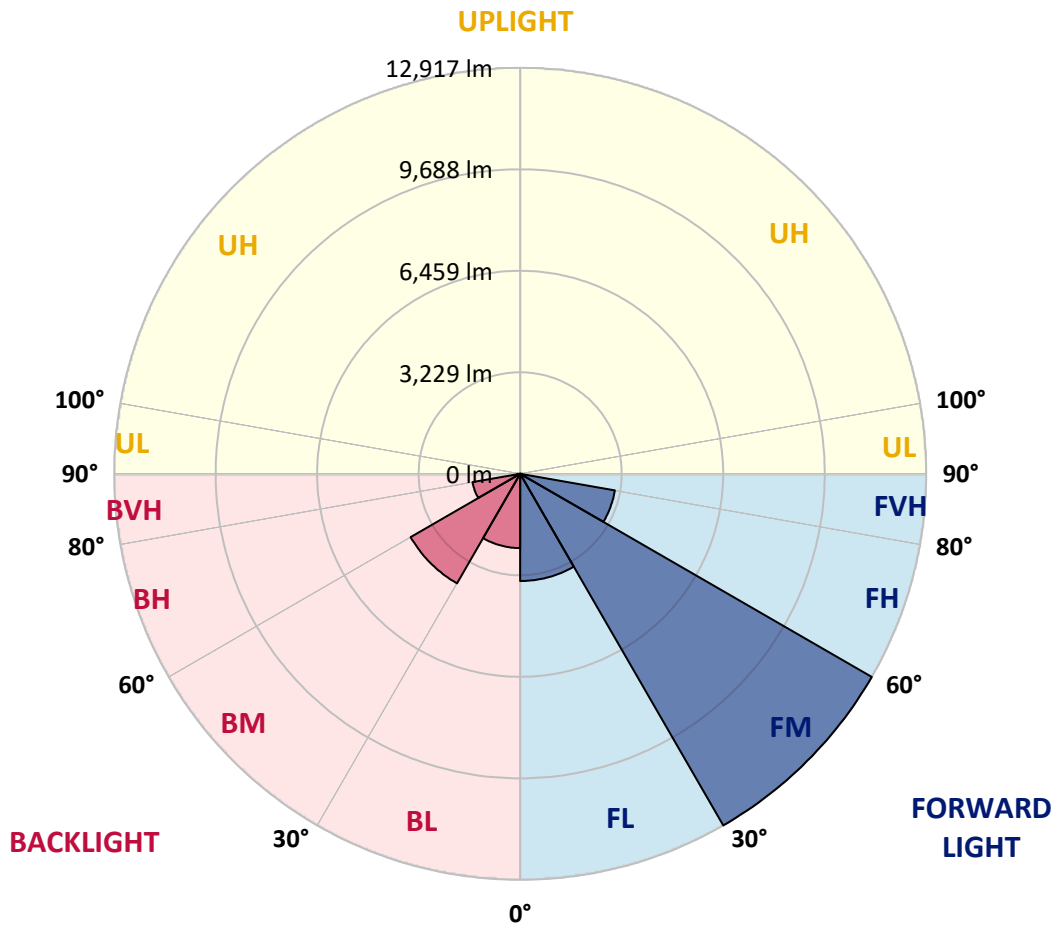
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3411.6	12.4			
FM (30°-60°)	12917.1	47.0			
FH (60°-80°)	3060.2	11.1			G2/5000
FVH (80°-90°)	58.3	0.2			G1/100
BL (0°-30°)	2363.6	8.6	B3/2500		
BM (30°-60°)	4024.2	14.7	B3/5000		
BH (60°-80°)	1539.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	86.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	8972.5	8895.0	8940.7	8923.1	9067.6	9109.8	9088.7	9106.3	9187.3	9148.6	9067.6
5°	8384.2	8493.4	8514.5	8567.3	8651.9	8817.5	8947.8	8983.0	9021.8	9201.4	9183.8
7.5°	7848.7	7922.7	7883.9	8038.9	8222.1	8489.8	8648.4	8676.5	9032.3	9131.0	9205.0
10°	7510.5	7436.5	7612.7	7654.9	7862.8	8169.3	8359.5	8475.7	8799.8	9190.9	9236.7
12.5°	7197.0	7172.3	7278.0	7397.8	7630.3	7947.3	8141.1	8186.9	8687.1	9099.3	9314.2
15°	6964.5	6936.3	7042.0	7130.1	7401.3	7683.1	7929.7	8060.1	8563.8	9046.4	9247.2
17.5°	6781.3	6777.8	6837.7	6996.2	7274.5	7510.5	7908.6	7915.6	8500.4	9127.5	9303.6
20°	6770.7	6767.2	6777.8	6953.9	7207.6	7496.4	7841.6	7905.1	8500.4	9071.1	9307.1
22.5°	6858.8	6802.4	6865.8	6978.6	7161.8	7521.1	7866.3	8007.2	8704.7	9349.4	9465.6
25°	6999.7	7013.8	7049.0	7087.8	7193.5	7577.4	8084.7	8201.0	8944.3	9588.9	9684.0
27.5°	7256.9	7249.8	7263.9	7285.1	7376.6	7630.3	8172.8	8472.2	9444.5	10015.2	9920.1
30°	7633.8	7609.1	7665.5	7739.5	7654.9	7799.4	8465.2	8690.6	9909.5	10445.0	10184.3
32.5°	7975.5	8067.1	8172.8	8204.5	8102.3	8130.5	8852.7	9081.7	10297.0	10973.4	10508.4
35°	8401.8	8475.7	8616.7	8715.3	8697.7	8613.1	9381.1	9684.0	10857.1	11360.9	10850.1
37.5°	8817.5	8905.5	9138.0	9430.4	9268.4	9229.6	9944.7	10194.8	11029.7	11568.7	11100.2
40°	9486.8	9483.3	9884.8	10036.3	10180.8	10113.8	10529.5	10614.1	11121.3	11522.9	11107.2
42.5°	10272.3	10223.0	10631.7	10867.7	11054.4	11061.4	11138.9	11110.8	11163.6	11290.4	11033.3
45°	11019.2	11124.9	11537.0	11959.7	12146.5	12167.6	11653.3	11600.4	11237.6	11223.5	10892.4
47.5°	11931.6	11956.2	12294.4	12851.0	13284.3	13136.3	12319.1	12202.8	11561.7	11670.9	11128.4
50°	11984.4	12167.6	12470.5	13125.8	14457.4	14418.6	13182.1	12963.7	12083.0	12305.0	11787.1
52.5°	10878.3	10836.0	11195.3	12266.2	14369.3	15693.9	14612.4	14091.0	13203.3	13034.2	12854.5
55°	8289.0	8387.7	8704.7	9786.2	12477.6	15711.5	16560.5	16134.2	14401.0	14112.2	13904.3
56°	7271.0	7285.1	7584.5	8570.9	11385.5	15151.4	16930.4	16585.1	14996.4	14556.0	14239.0
57.5°	6027.4	5946.4	6101.4	6640.4	9610.1	13967.7	16525.2	16863.4	15693.9	15035.1	14594.8
60°	4745.1	4727.5	4664.1	4762.8	6073.2	10522.5	13756.4	14517.3	15623.4	14584.2	13978.3
62.5°	3875.0	3787.0	3913.8	4054.7	4220.3	6527.7	9666.4	10113.8	12403.6	11642.7	10501.3
65°	3004.9	2962.6	3121.2	3579.1	3677.8	4146.3	5506.1	5851.3	7323.8	7193.5	6333.9
67.5°	2067.9	2074.9	2212.3	2909.8	3410.0	3367.8	3371.3	3550.9	3822.2	2839.3	2473.0
70°	1310.5	1306.9	1380.9	1874.1	2744.2	2772.4	2631.5	2578.7	2444.8	1479.6	1567.6
72.5°	841.9	817.3	856.0	1035.7	1419.7	1641.6	1690.9	1722.6	1416.1	1162.5	1261.1
75°	475.6	450.9	436.8	482.6	560.1	648.2	711.6	732.7	820.8	880.7	933.5
77.5°	144.4	130.3	158.5	211.4	278.3	373.4	454.4	468.5	553.1	623.5	676.4
80°	63.4	70.5	98.6	140.9	197.3	264.2	320.6	341.7	398.1	450.9	465.0
82.5°	38.8	42.3	66.9	95.1	137.4	186.7	229.0	236.0	292.4	334.7	345.2
85°	14.1	17.6	35.2	56.4	88.1	119.8	119.8	130.3	119.8	119.8	130.3
87.5°	0.0	0.0	3.5	7.0	7.0	10.6	14.1	14.1	17.6	21.1	24.7
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°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	9109.8	9092.2	9064.0	8961.9	8951.3	8919.6	8743.5	8715.3	8743.5	8658.9	8666.0
5°	9092.2	9145.1	8933.7	8831.5	8641.3	8503.9	8345.4	8264.4	8119.9	8028.4	8130.5
7.5°	9169.7	9148.6	8884.4	8662.5	8377.1	8028.4	7750.1	7591.5	7337.9	7267.4	7320.3
10°	9141.5	9028.8	8718.8	8426.4	7887.4	7581.0	7130.1	6693.2	6453.7	6330.4	6312.8
12.5°	9102.8	9071.1	8553.2	8049.5	7482.3	6837.7	6203.6	5791.4	5400.4	5231.3	5255.9
15°	9148.6	8880.9	8243.2	7605.6	6851.8	6006.3	5322.9	4790.9	4519.7	4410.5	4410.5
17.5°	9127.5	8789.3	8095.3	7108.9	6154.3	5153.8	4403.4	4082.9	3970.1	3970.1	4001.8
20°	9138.0	8849.2	7795.9	6612.2	5329.9	4340.0	3794.0	3677.8	3727.1	3744.7	3762.3
22.5°	9197.9	8651.9	7503.5	6066.2	4565.5	3713.0	3445.3	3448.8	3536.8	3632.0	3614.3
25°	9271.9	8574.4	7147.7	5523.7	3980.7	3406.5	3322.0	3311.4	3378.3	3427.6	3434.7
27.5°	9208.5	8440.5	6784.8	4847.3	3501.6	3202.2	3184.6	3191.6	3212.8	3311.4	3279.7
30°	9416.3	8479.3	6330.4	4280.1	3237.4	3135.3	3114.1	3103.5	3135.3	3163.4	3138.8
32.5°	9673.5	8341.9	5992.2	3734.1	3107.1	3085.9	3043.7	3029.6	3047.2	3019.0	3033.1
35°	9786.2	8317.2	5551.9	3343.1	3004.9	2987.3	2962.6	2959.1	2962.6	2938.0	2916.8
37.5°	9849.6	8433.5	5048.1	3163.4	2941.5	2959.1	2902.7	2895.7	2832.3	2846.4	2857.0
40°	9958.8	8253.8	4639.5	2990.8	2902.7	2867.5	2818.2	2807.6	2765.4	2740.7	2765.4
42.5°	9800.3	8201.0	4237.9	2916.8	2846.4	2807.6	2772.4	2712.5	2698.4	2677.3	2663.2
45°	9673.5	7898.0	3878.6	2825.2	2779.5	2758.3	2691.4	2628.0	2575.1	2596.3	2564.6
47.5°	9768.6	7792.3	3522.8	2747.7	2687.9	2663.2	2596.3	2547.0	2494.1	2469.5	2462.4
50°	10149.1	7989.6	3223.3	2691.4	2610.4	2596.3	2508.2	2451.8	2402.5	2384.9	2391.9
52.5°	11057.9	8528.6	3019.0	2575.1	2536.4	2473.0	2423.7	2353.2	2321.5	2265.1	2300.4
55°	12209.9	9405.8	2966.2	2465.9	2444.8	2388.4	2321.5	2268.7	2208.8	2163.0	2152.4
56°	12579.8	9825.0	2923.9	2423.7	2388.4	2356.7	2268.7	2236.9	2141.8	2131.3	2124.2
57.5°	12879.2	10194.8	2930.9	2342.6	2307.4	2279.2	2226.4	2148.9	2085.5	2046.7	2064.3
60°	12202.8	9543.1	2797.1	2219.3	2212.3	2159.4	2085.5	2050.2	1972.7	1926.9	1916.4
62.5°	9071.1	6478.3	2268.7	2060.8	2057.3	2000.9	1916.4	1877.6	1863.5	1800.1	1800.1
65°	5224.2	4061.7	1962.2	1930.5	1902.3	1845.9	1761.4	1729.7	1694.4	1673.3	1655.7
67.5°	2229.9	2106.6	1782.5	1779.0	1747.3	1676.8	1592.3	1543.0	1497.2	1454.9	1476.0
70°	1616.9	1641.6	1609.9	1592.3	1553.5	1465.5	1391.5	1331.6	1261.1	1233.0	1254.1
72.5°	1282.3	1335.1	1380.9	1384.4	1338.6	1236.5	1155.5	1074.4	996.9	958.2	975.8
75°	972.3	1007.5	1053.3	1063.9	996.9	926.5	849.0	764.4	704.6	658.8	665.8
77.5°	701.0	694.0	736.3	729.2	697.5	648.2	577.7	500.2	433.3	391.0	394.5
80°	479.1	489.7	514.3	510.8	472.0	440.3	387.5	324.1	274.8	239.5	232.5
82.5°	334.7	352.3	373.4	355.8	324.1	292.4	253.6	207.8	169.1	140.9	133.9
85°	119.8	137.4	158.5	169.1	179.7	172.6	144.4	116.3	84.5	70.5	66.9
87.5°	24.7	28.2	31.7	31.7	31.7	28.2	24.7	24.7	21.1	10.6	10.6
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)