

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: P530506

Luminaire Tested: **GALN-SA5D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27623 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

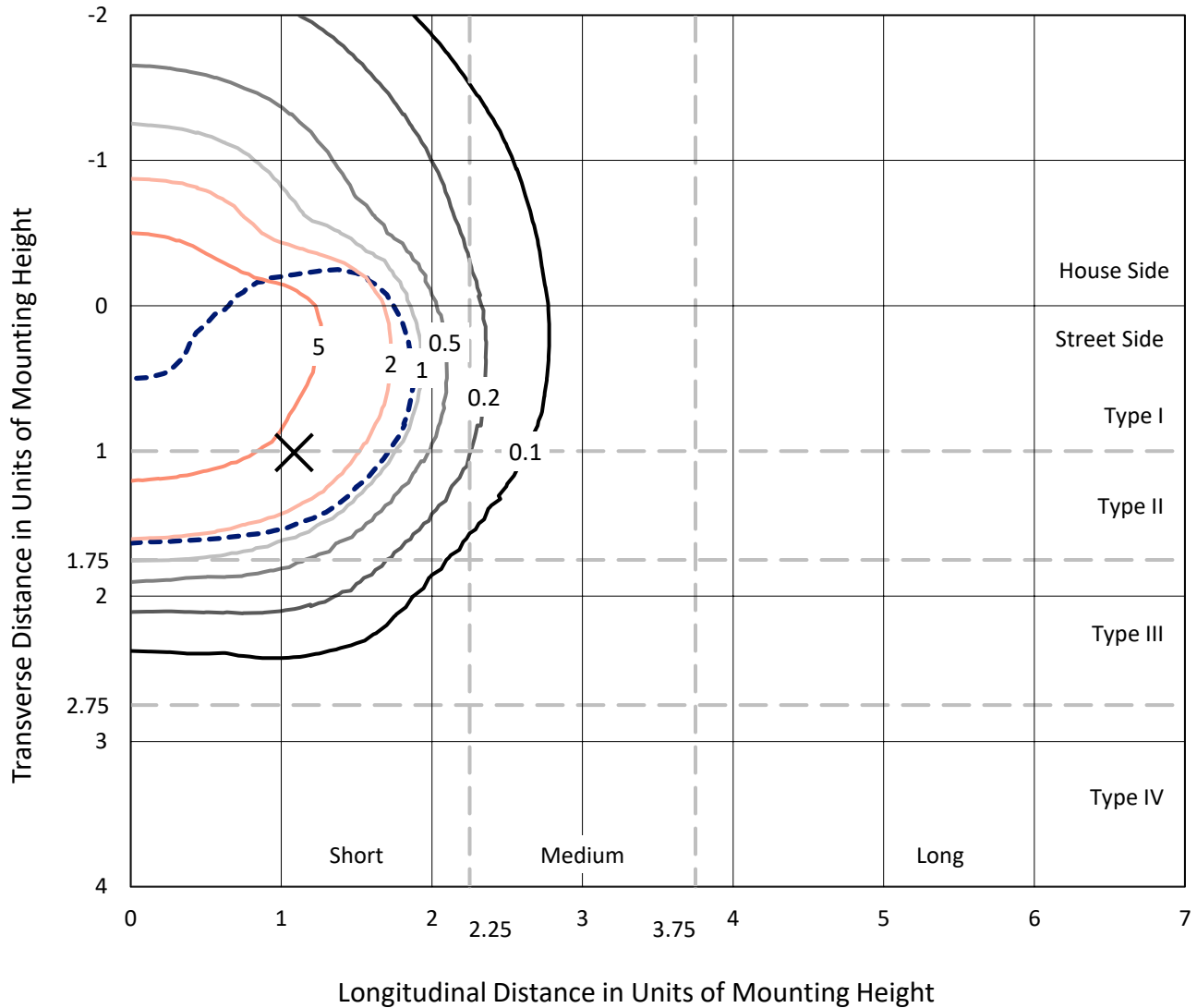
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530506
 CATALOG NUMBER: GALN-SA5D-727-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

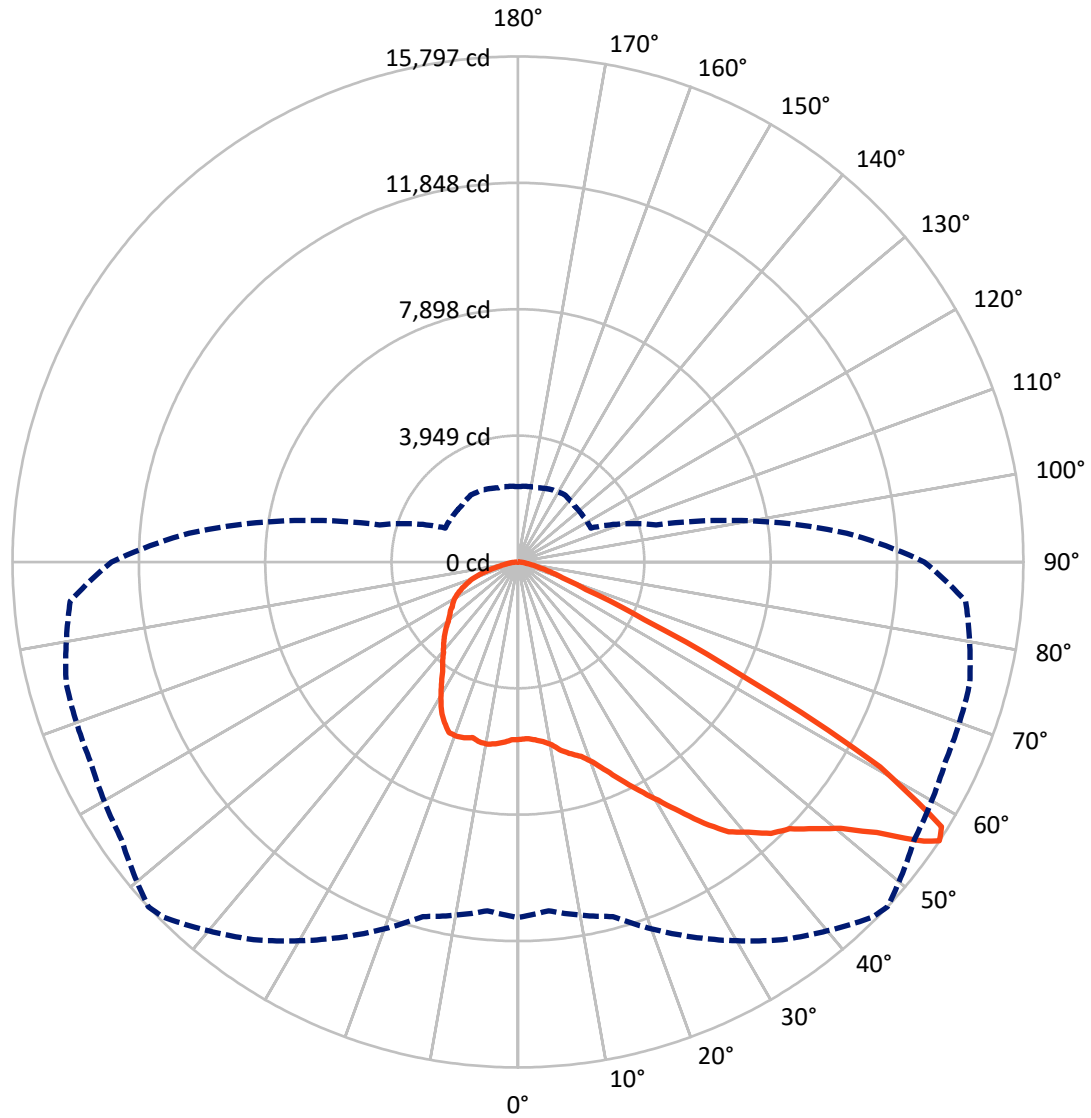
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P530506
CATALOG NUMBER: GALN-SA5D-727-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8753.4	0.0	8753.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18869.6	0.0	18869.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	27623.0	0.0	27623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.6	2.0
10°-20°	1705.4	6.2
20°-30°	3014.8	10.9
30°-40°	4528.1	16.4
40°-50°	6214.4	22.5
50°-60°	7403.7	26.8
60°-70°	3168.3	11.5
70°-80°	896.6	3.2
80°-90°	150.9	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°	27623.0	100.0
0°-180°	27623.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530506

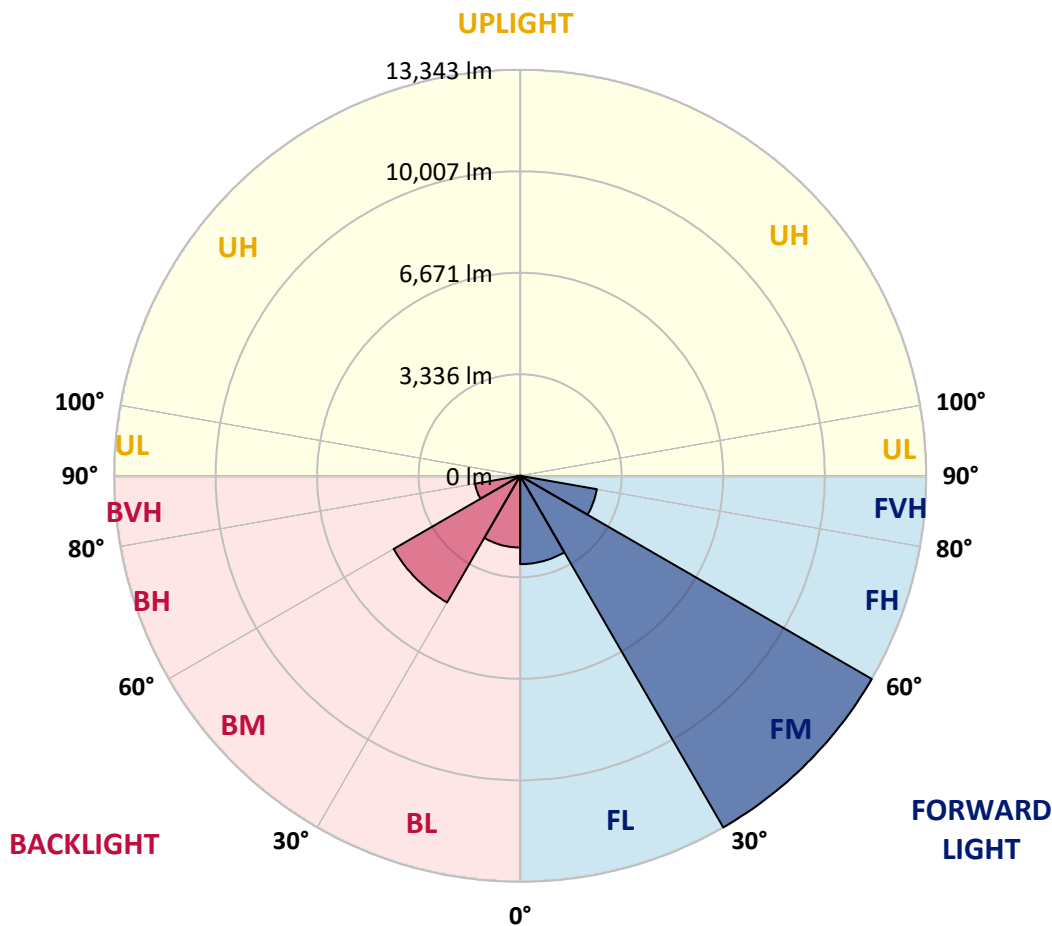
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.1	10.5			
FM (30°-60°)	13342.5	48.3			
FH (60°-80°)	2558.9	9.3			G2/5000
FVH (80°-90°)	64.0	0.2			G1/100
BL (0°-30°)	2356.8	8.5	B3/2500		
BM (30°-60°)	4803.7	17.4	B3/5000		
BH (60°-80°)	1506.1	5.5	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





REPORT NUMBER: P530506

CATALOG NUMBER: GALN-SA5D-727-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6
2.5°	5527.5	5516.9	5509.9	5566.2	5545.1	5548.6	5527.5	5548.6	5562.7	5531.0	5576.8
5°	5516.9	5548.6	5520.4	5538.1	5583.9	5569.8	5583.9	5626.1	5615.6	5605.0	5590.9
7.5°	5615.6	5619.1	5640.2	5647.3	5661.4	5647.3	5668.4	5707.2	5696.6	5636.7	5643.7
10°	5756.5	5763.5	5767.0	5805.8	5830.5	5834.0	5809.3	5774.1	5770.6	5851.6	5795.2
12.5°	5918.5	5900.9	5943.2	5957.3	5985.5	6017.2	6048.9	5974.9	6020.7	6024.2	5957.3
15°	6154.6	6172.2	6122.9	6122.9	6133.4	6137.0	6225.0	6189.8	6182.7	6144.0	6172.2
17.5°	6506.9	6387.1	6383.6	6334.2	6327.2	6355.4	6387.1	6415.3	6510.4	6432.9	6281.4
20°	6764.0	6792.2	6690.1	6630.2	6640.7	6704.1	6672.4	6799.3	6866.2	6739.4	6591.4
22.5°	7218.5	7123.4	7148.0	7014.2	7024.7	7091.7	7088.1	7218.5	7257.2	7056.4	6841.5
25°	7525.0	7500.3	7521.5	7415.8	7429.9	7482.7	7567.3	7782.2	7718.7	7496.8	7000.1
27.5°	7972.4	7923.1	7905.5	7866.7	7852.6	7993.5	8092.2	8321.2	8275.4	7951.3	7281.9
30°	8430.4	8398.7	8416.3	8257.8	8314.1	8613.6	8641.8	8955.3	8934.2	8363.4	7595.4
32.5°	8747.4	8765.1	8796.8	8708.7	8958.8	9198.4	9293.5	9649.3	9666.9	9071.6	8201.4
35°	9258.3	9198.4	9216.0	9318.2	9434.4	9871.3	10026.3	10262.3	10410.3	9814.9	8782.7
37.5°	9578.9	9642.3	9568.3	9730.3	10033.3	10558.2	10699.2	10942.2	11097.2	10547.7	9575.3
40°	10079.1	9976.9	10029.8	10146.1	10456.1	11139.5	11100.8	11350.9	11400.2	11171.2	10315.2
42.5°	10618.1	10568.8	10494.8	10759.0	11019.7	11516.5	11594.0	11477.7	11727.8	11780.7	11372.0
45°	11262.8	11322.7	11333.3	11340.3	11569.3	12002.6	11896.9	11794.8	12083.7	12467.7	12027.3
47.5°	11861.7	11671.5	11808.9	11999.1	12323.2	12326.7	12450.0	12207.0	12513.5	12855.2	12619.2
50°	12062.5	11970.9	12154.1	12513.5	13013.7	13066.6	13080.7	12735.4	12893.9	13165.2	12823.5
52.5°	11985.0	11953.3	12421.9	12978.5	13711.3	13979.0	14049.5	13623.2	13711.3	13588.0	13274.4
55°	11615.1	11710.2	12182.3	13316.7	14440.5	15268.4	15402.3	14863.3	14303.1	14398.2	14053.0
56°	11107.8	10942.2	11470.7	12932.7	14408.8	15687.6	15796.8	15124.0	14743.5	14620.2	14045.9
57.5°	9423.8	9209.0	9903.0	11636.3	13609.1	15529.1	15610.1	15233.2	14669.5	14419.4	13020.8
60°	5516.9	5622.6	6503.3	8025.2	10498.3	12731.9	13003.2	13277.9	12901.0	11780.7	9691.6
62.5°	2663.3	2596.4	3227.0	4601.0	6397.6	8127.4	8046.4	8817.9	9240.7	8370.5	6119.3
65°	1395.1	1388.0	1761.5	2511.9	3515.9	4269.8	4343.8	4759.5	5340.8	4312.1	3107.2
67.5°	1025.2	1053.4	1240.1	1765.0	2261.7	2307.5	2297.0	2504.8	2561.2	2166.6	1909.4
70°	803.2	817.3	954.7	1342.2	1684.0	1507.8	1476.1	1500.8	1666.3	1736.8	1652.3
72.5°	581.3	595.4	711.6	905.4	1053.4	1028.7	1049.8	1187.2	1391.6	1465.5	1377.5
75°	387.5	398.1	461.5	553.1	623.6	672.9	711.6	870.2	1060.4	1102.7	1060.4
77.5°	267.7	278.3	320.6	391.0	398.1	429.8	443.9	517.9	634.1	687.0	658.8
80°	151.5	151.5	172.6	200.8	246.6	288.9	295.9	355.8	408.7	443.9	450.9
82.5°	70.5	74.0	91.6	123.3	162.1	200.8	207.9	246.6	285.4	320.6	331.2
85°	35.2	38.8	52.8	74.0	98.6	119.8	116.3	119.8	126.8	119.8	123.3
87.5°	10.6	10.6	14.1	17.6	14.1	17.6	17.6	21.1	24.7	28.2	31.7
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°	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6	5548.6
2.5°	5580.3	5590.9	5520.4	5587.4	5562.7	5559.2	5608.5	5601.5	5619.1	5612.0	5569.8
5°	5583.9	5559.2	5633.2	5566.2	5597.9	5664.9	5619.1	5724.8	5671.9	5707.2	5629.6
7.5°	5693.1	5700.1	5686.0	5714.2	5700.1	5731.8	5707.2	5731.8	5689.5	5693.1	5763.5
10°	5788.2	5767.0	5791.7	5756.5	5781.1	5770.6	5714.2	5696.6	5710.7	5693.1	5738.9
12.5°	5964.3	5925.6	5908.0	5865.7	5837.5	5731.8	5643.7	5594.4	5661.4	5671.9	5650.8
15°	6144.0	6147.5	6066.5	5971.4	5795.2	5636.7	5657.8	5675.4	5675.4	5703.6	5650.8
17.5°	6256.7	6256.7	6182.7	5992.5	5812.8	5721.2	5700.1	5643.7	5594.4	5587.4	5583.9
20°	6454.0	6394.1	6225.0	5989.0	5805.8	5763.5	5605.0	5471.1	5369.0	5333.7	5330.2
22.5°	6679.5	6528.0	6292.0	5996.0	5795.2	5735.3	5439.4	5238.6	5055.4	4977.9	4988.5
25°	6887.3	6644.3	6330.7	5964.3	5756.5	5467.6	5136.4	4858.1	4667.9	4604.5	4572.8
27.5°	7031.8	6767.6	6330.7	5992.5	5612.0	5168.1	4829.9	4474.1	4308.5	4266.3	4273.3
30°	7225.5	6922.6	6439.9	5932.6	5323.2	4780.6	4375.5	4143.0	4044.3	4009.1	4033.8
32.5°	7680.0	7327.7	6591.4	5788.2	4981.4	4393.1	4065.5	3935.1	3790.7	3720.2	3695.6
35°	8173.2	7711.7	6739.4	5545.1	4597.4	4040.8	3836.5	3716.7	3544.1	3466.6	3480.7
37.5°	8870.7	8204.9	6749.9	5143.5	4181.7	3843.5	3656.8	3470.1	3329.2	3209.4	3174.2
40°	9811.4	8877.8	6725.3	4720.7	3847.0	3611.0	3473.6	3241.1	3082.6	2998.0	3015.6
42.5°	10639.3	9666.9	6623.1	4241.6	3544.1	3452.5	3297.5	3068.5	2913.5	2825.4	2818.3
45°	11336.8	10248.2	6429.4	3833.0	3290.4	3276.3	3096.7	2920.5	2797.2	2716.2	2751.4
47.5°	11981.5	10716.8	6137.0	3424.3	3057.9	3086.1	2913.5	2804.3	2726.8	2652.8	2649.2
50°	12214.0	10709.7	5879.8	3086.1	2871.2	2857.1	2850.1	2733.8	2652.8	2589.4	2617.5
52.5°	12601.5	10829.5	5601.5	2853.6	2702.1	2705.6	2730.3	2645.7	2554.1	2515.4	2550.6
55°	13158.2	10847.1	4988.5	2582.3	2561.2	2585.8	2585.8	2529.5	2452.0	2420.3	2402.6
56°	12703.7	10322.2	4474.1	2511.9	2490.7	2490.7	2557.7	2494.2	2399.1	2374.5	2353.3
57.5°	11717.3	9043.4	3744.9	2427.3	2395.6	2444.9	2480.1	2413.2	2325.1	2289.9	2311.0
60°	8081.6	6119.3	2814.8	2244.1	2244.1	2325.1	2353.3	2254.7	2215.9	2212.4	2184.2
62.5°	4717.2	3565.2	2201.8	2078.5	2085.6	2152.5	2173.7	2117.3	2068.0	2127.9	2156.0
65°	2501.3	2127.9	1888.3	1902.4	1905.9	1958.8	2050.3	2046.8	2043.3	2060.9	2064.4
67.5°	1810.8	1768.5	1715.7	1701.6	1708.6	1747.4	1839.0	1909.4	1905.9	1863.6	1831.9
70°	1613.5	1553.6	1521.9	1525.4	1497.2	1543.0	1617.0	1662.8	1581.8	1532.5	1511.3
72.5°	1342.2	1324.6	1303.5	1307.0	1250.6	1240.1	1155.5	1155.5	1134.4	1120.3	1145.0
75°	1025.2	1018.1	1028.7	1011.1	951.2	887.8	838.5	792.7	722.2	694.0	679.9
77.5°	648.2	669.4	694.0	655.3	630.6	584.8	535.5	489.7	433.3	401.6	401.6
80°	440.4	458.0	475.6	468.6	440.4	398.1	359.3	310.0	271.3	246.6	243.1
82.5°	334.7	348.8	373.4	345.2	317.1	281.8	250.1	214.9	179.7	151.5	151.5
85°	119.8	137.4	151.5	165.6	176.1	179.7	155.0	126.8	102.2	81.0	77.5
87.5°	31.7	35.2	38.8	35.2	35.2	35.2	38.8	35.2	31.7	24.7	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

(END OF REPORT)