

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: P533002

Luminaire Tested: **GALN-SA8B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533002
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-SA8B-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 28798 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

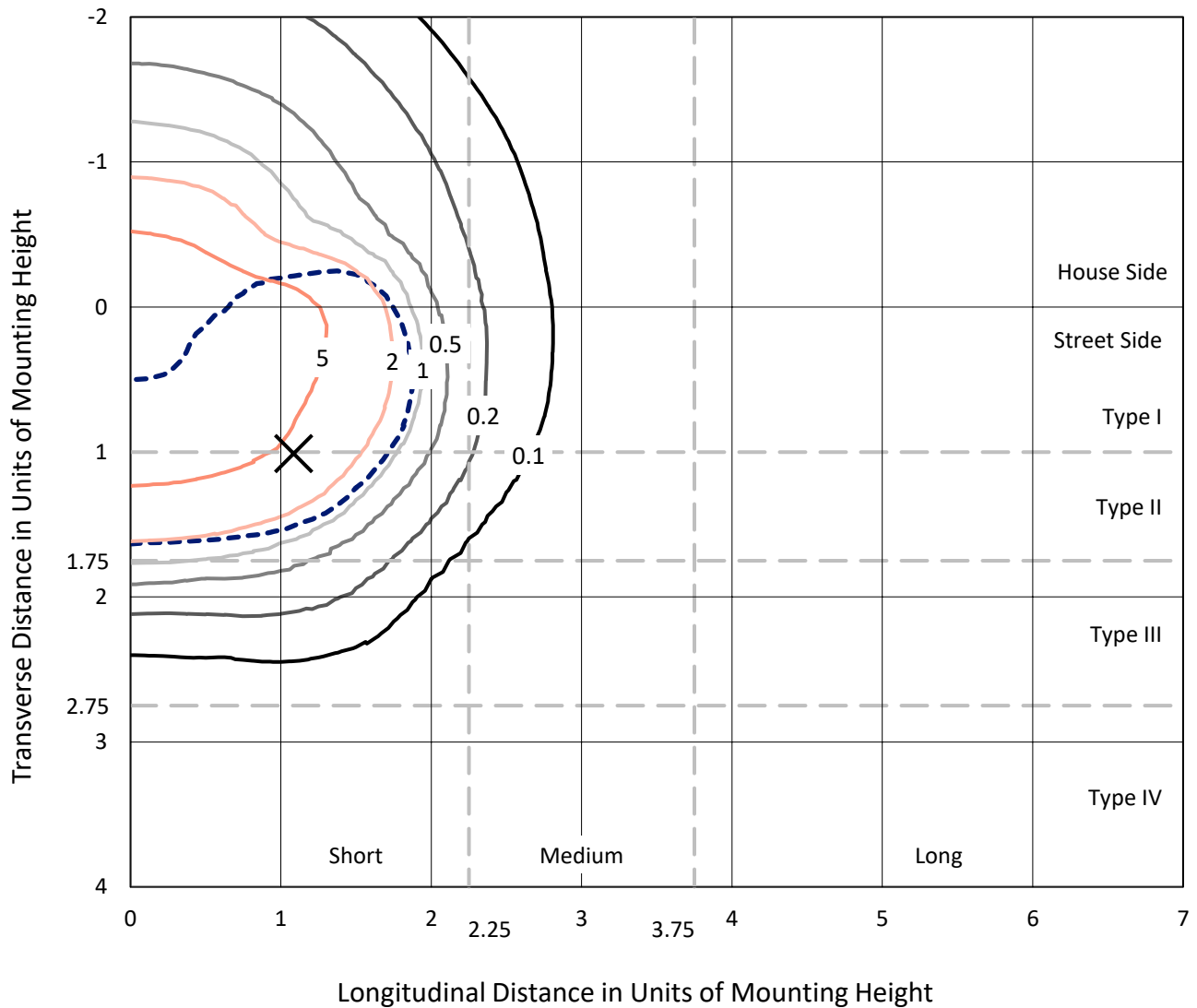
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533002
 CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

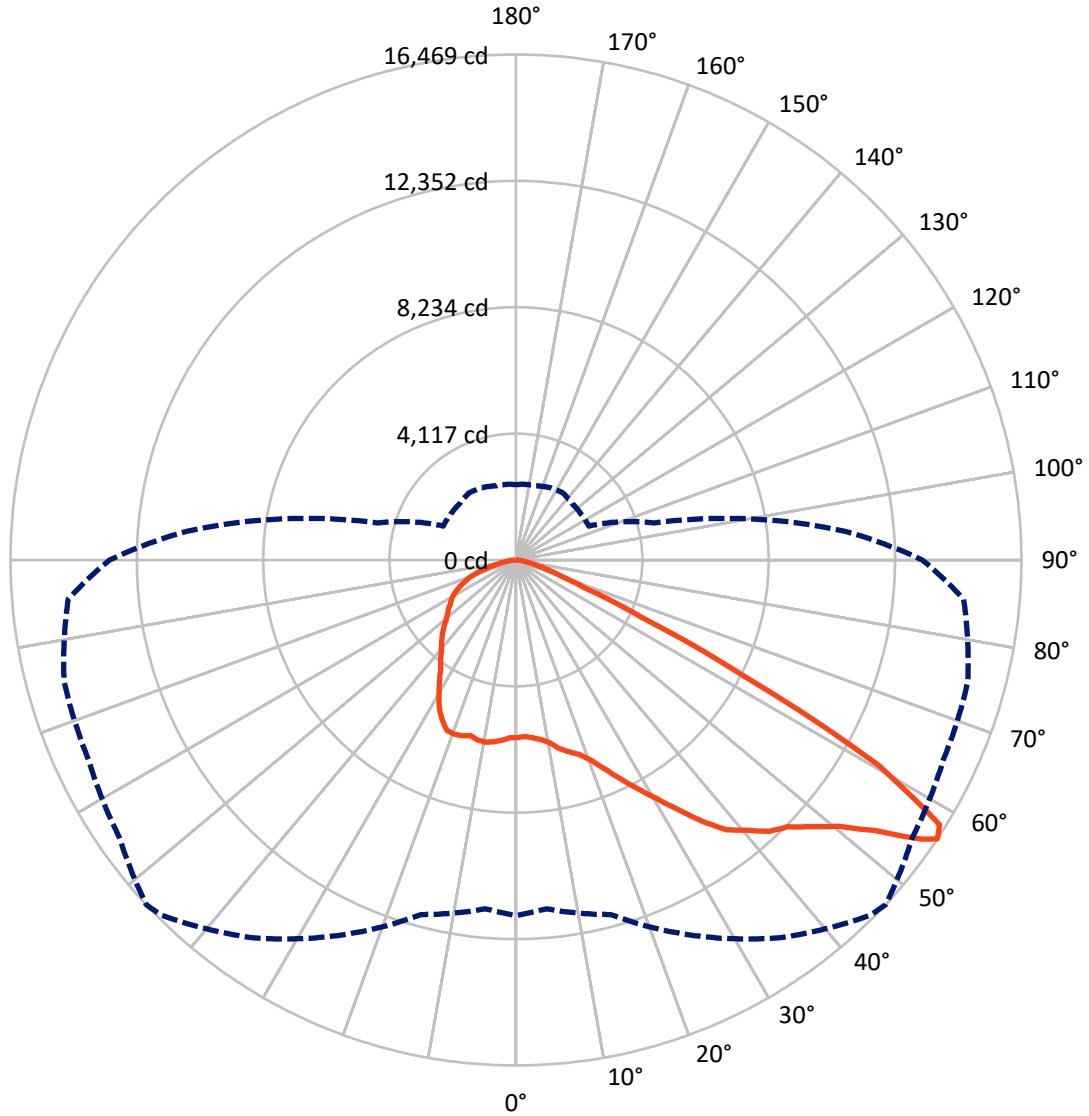
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P533002
CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P533002
 CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9125.7	0.0	9125.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	19672.3	0.0	19672.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	28798.0	0.0	28798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.6	2.0
10°-20°	1778.0	6.2
20°-30°	3143.0	10.9
30°-40°	4720.8	16.4
40°-50°	6478.8	22.5
50°-60°	7718.6	26.8
60°-70°	3303.1	11.5
70°-80°	934.8	3.2
80°-90°	157.3	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°	28798.0	100.0
0°-180°	28798.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533002

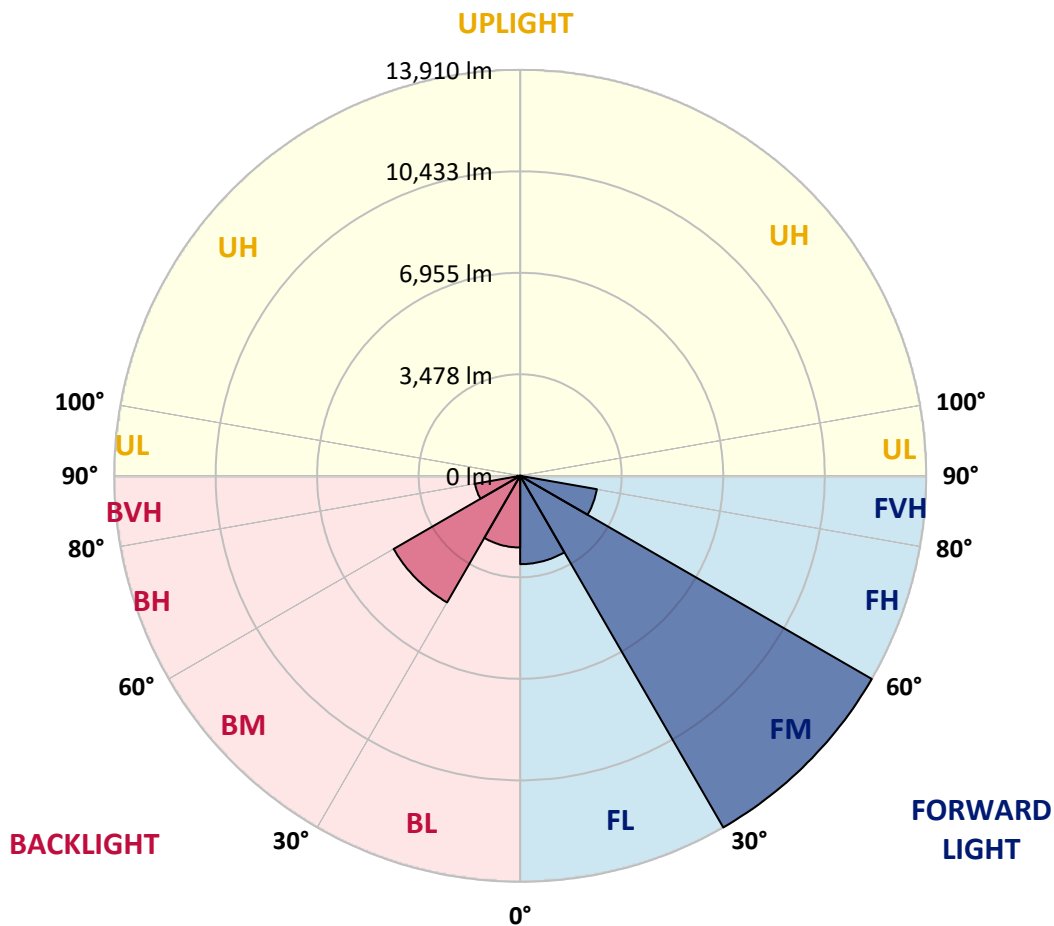
CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3027.6	10.5			
FM (30°-60°)	13910.1	48.3			
FH (60°-80°)	2667.7	9.3			G2/5000
FVH (80°-90°)	66.8	0.2			G1/100
BL (0°-30°)	2457.0	8.5	B3/2500		
BM (30°-60°)	5008.0	17.4	B4/8500		
BH (60°-80°)	1570.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	90.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P533002

CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6
2.5°	5762.6	5751.6	5744.2	5803.0	5781.0	5784.6	5762.6	5784.6	5799.3	5766.3	5814.0
5°	5751.6	5784.6	5755.3	5773.6	5821.4	5806.7	5821.4	5865.4	5854.4	5843.4	5828.7
7.5°	5854.4	5858.1	5880.1	5887.5	5902.2	5887.5	5909.5	5949.9	5938.9	5876.5	5883.8
10°	6001.3	6008.7	6012.4	6052.8	6078.5	6082.1	6056.4	6019.7	6016.0	6100.5	6041.7
12.5°	6170.3	6151.9	6196.0	6210.7	6240.1	6273.1	6306.2	6229.1	6276.8	6280.5	6210.7
15°	6416.4	6434.7	6383.3	6383.3	6394.3	6398.0	6489.8	6453.1	6445.7	6405.3	6434.7
17.5°	6783.6	6658.8	6655.1	6603.7	6596.3	6625.7	6658.8	6688.1	6787.3	6706.5	6548.6
20°	7051.8	7081.1	6974.6	6912.2	6923.2	6989.3	6956.3	7088.5	7158.3	7026.0	6871.8
22.5°	7525.5	7426.4	7452.1	7312.5	7323.5	7393.3	7389.7	7525.5	7565.9	7356.6	7132.6
25°	7845.1	7819.4	7841.4	7731.2	7745.9	7801.0	7889.2	8113.2	8047.1	7815.7	7297.8
27.5°	8311.5	8260.1	8241.7	8201.3	8186.6	8333.6	8436.4	8675.1	8627.4	8289.5	7591.7
30°	8789.0	8755.9	8774.3	8609.0	8667.8	8980.0	9009.4	9336.2	9314.2	8719.2	7918.5
32.5°	9119.5	9137.9	9171.0	9079.1	9339.9	9589.7	9688.8	10059.8	10078.1	9457.4	8550.3
35°	9652.1	9589.7	9608.0	9714.5	9835.7	10291.2	10452.8	10698.8	10853.1	10232.4	9156.3
37.5°	9986.3	10052.4	9975.3	10144.2	10460.1	11007.3	11154.3	11407.7	11569.3	10996.3	9982.6
40°	10507.9	10401.3	10456.4	10577.6	10900.8	11613.4	11573.0	11833.7	11885.1	11646.4	10753.9
42.5°	11069.8	11018.4	10941.2	11216.7	11488.5	12006.3	12087.1	11965.9	12226.7	12281.8	11855.8
45°	11741.9	11804.3	11815.4	11822.7	12061.4	12513.2	12403.0	12296.5	12597.7	12998.0	12538.9
47.5°	12366.3	12168.0	12311.2	12509.5	12847.4	12851.1	12979.6	12726.2	13045.7	13402.0	13155.9
50°	12575.6	12480.1	12671.1	13045.7	13567.3	13622.4	13637.1	13277.1	13442.4	13725.2	13369.0
52.5°	12494.8	12461.8	12950.3	13530.6	14294.5	14573.6	14647.1	14202.7	14294.5	14165.9	13839.1
55°	12109.2	12208.4	12700.5	13883.1	15054.8	15917.9	16057.4	15495.5	14911.5	15010.7	14650.8
56°	11580.3	11407.7	11958.6	13482.8	15021.7	16354.9	16468.8	15767.3	15370.6	15242.1	14643.4
57.5°	9824.7	9600.7	10324.2	12131.2	14188.0	16189.7	16274.1	15881.1	15293.5	15032.7	13574.6
60°	5751.6	5861.8	6780.0	8366.6	10944.9	13273.5	13556.3	13842.7	13449.8	12281.8	10103.8
62.5°	2776.6	2706.8	3364.3	4796.7	6669.8	8473.1	8388.7	9193.0	9633.7	8726.5	6379.6
65°	1454.4	1447.1	1836.4	2618.7	3665.4	4451.4	4528.5	4961.9	5567.9	4495.5	3239.4
67.5°	1068.8	1098.2	1292.8	1840.1	2357.9	2405.7	2394.7	2611.4	2670.1	2258.8	1990.7
70°	837.4	852.1	995.3	1399.3	1755.6	1572.0	1538.9	1564.6	1737.2	1810.7	1722.5
72.5°	606.0	620.7	741.9	943.9	1098.2	1072.5	1094.5	1237.7	1450.8	1527.9	1436.1
75°	404.0	415.0	481.1	576.6	650.1	701.5	741.9	907.2	1105.5	1149.6	1105.5
77.5°	279.1	290.2	334.2	407.7	415.0	448.1	462.8	539.9	661.1	716.2	686.8
80°	157.9	157.9	180.0	209.3	257.1	301.2	308.5	371.0	426.0	462.8	470.1
82.5°	73.5	77.1	95.5	128.5	168.9	209.3	216.7	257.1	297.5	334.2	345.2
85°	36.7	40.4	55.1	77.1	102.8	124.9	121.2	124.9	132.2	124.9	128.5
87.5°	11.0	11.0	14.7	18.4	14.7	18.4	18.4	22.0	25.7	29.4	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533002

CATALOG NUMBER: GALN-SA8B-827-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6	5784.6
2.5°	5817.7	5828.7	5755.3	5825.0	5799.3	5795.7	5847.1	5839.7	5858.1	5850.8	5806.7
5°	5821.4	5795.7	5872.8	5803.0	5836.1	5905.8	5858.1	5968.3	5913.2	5949.9	5869.1
7.5°	5935.2	5942.6	5927.9	5957.3	5942.6	5975.6	5949.9	5975.6	5931.6	5935.2	6008.7
10°	6034.4	6012.4	6038.1	6001.3	6027.0	6016.0	5957.3	5938.9	5953.6	5935.2	5983.0
12.5°	6218.0	6177.6	6159.3	6115.2	6085.8	5975.6	5883.8	5832.4	5902.2	5913.2	5891.2
15°	6405.3	6409.0	6324.5	6225.4	6041.7	5876.5	5898.5	5916.9	5916.9	5946.2	5891.2
17.5°	6522.9	6522.9	6445.7	6247.4	6060.1	5964.6	5942.6	5883.8	5832.4	5825.0	5821.4
20°	6728.6	6666.1	6489.8	6243.7	6052.8	6008.7	5843.4	5703.8	5597.3	5560.6	5556.9
22.5°	6963.6	6805.7	6559.6	6251.1	6041.7	5979.3	5670.8	5461.4	5270.5	5189.7	5200.7
25°	7180.3	6926.9	6600.0	6218.0	6001.3	5700.2	5354.9	5064.8	4866.4	4800.3	4767.3
27.5°	7330.9	7055.4	6600.0	6247.4	5850.8	5388.0	5035.4	4664.4	4491.8	4447.7	4455.1
30°	7532.9	7217.0	6713.9	6185.0	5549.6	4984.0	4561.6	4319.2	4216.4	4179.6	4205.3
32.5°	8006.7	7639.4	6871.8	6034.4	5193.3	4580.0	4238.4	4102.5	3951.9	3878.5	3852.8
35°	8520.9	8039.7	7026.0	5781.0	4793.0	4212.7	3999.7	3874.8	3694.8	3614.0	3628.7
37.5°	9248.1	8553.9	7037.1	5362.3	4359.6	4007.0	3812.4	3617.7	3470.8	3345.9	3309.2
40°	10228.7	9255.4	7011.4	4921.5	4010.7	3764.6	3621.4	3379.0	3213.7	3125.5	3143.9
42.5°	11091.8	10078.1	6904.8	4422.0	3694.8	3599.3	3437.7	3199.0	3037.4	2945.6	2938.2
45°	11819.0	10684.1	6702.8	3996.0	3430.4	3415.7	3228.4	3044.7	2916.2	2831.7	2868.4
47.5°	12491.2	11172.6	6398.0	3570.0	3188.0	3217.4	3037.4	2923.5	2842.7	2765.6	2761.9
50°	12733.6	11165.3	6129.9	3217.4	2993.3	2978.6	2971.3	2850.1	2765.6	2699.5	2728.9
52.5°	13137.6	11290.2	5839.7	2975.0	2817.0	2820.7	2846.4	2758.3	2662.8	2622.4	2659.1
55°	13717.9	11308.5	5200.7	2692.2	2670.1	2695.8	2695.8	2637.1	2556.3	2523.2	2504.8
56°	13244.1	10761.3	4664.4	2618.7	2596.7	2596.7	2666.4	2600.3	2501.2	2475.5	2453.4
57.5°	12215.7	9428.1	3904.2	2530.6	2497.5	2548.9	2585.6	2515.9	2424.0	2387.3	2409.3
60°	8425.4	6379.6	2934.6	2339.6	2339.6	2424.0	2453.4	2350.6	2310.2	2306.5	2277.1
62.5°	4917.9	3716.9	2295.5	2166.9	2174.3	2244.1	2266.1	2207.3	2155.9	2218.4	2247.7
65°	2607.7	2218.4	1968.6	1983.3	1987.0	2042.1	2137.6	2133.9	2130.2	2148.6	2152.3
67.5°	1887.8	1843.7	1788.6	1774.0	1781.3	1821.7	1917.2	1990.7	1987.0	1942.9	1909.9
70°	1682.1	1619.7	1586.6	1590.3	1560.9	1608.7	1685.8	1733.6	1649.1	1597.7	1575.6
72.5°	1399.3	1381.0	1358.9	1362.6	1303.8	1292.8	1204.7	1204.7	1182.6	1167.9	1193.7
75°	1068.8	1061.4	1072.5	1054.1	991.7	925.5	874.1	826.4	752.9	723.5	708.8
77.5°	675.8	697.8	723.5	683.1	657.4	609.7	558.3	510.5	451.8	418.7	418.7
80°	459.1	477.5	495.8	488.5	459.1	415.0	374.6	323.2	282.8	257.1	253.4
82.5°	348.9	363.6	389.3	359.9	330.6	293.8	260.8	224.0	187.3	157.9	157.9
85°	124.9	143.2	157.9	172.6	183.6	187.3	161.6	132.2	106.5	84.5	80.8
87.5°	33.1	36.7	40.4	36.7	36.7	36.7	40.4	36.7	33.1	25.7	25.7
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)