

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: P533536

Luminaire Tested: **GALN-SA9A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533536
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-SA9A-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 29387 lumens
Efficiency: N/A
Efficacy: 107.3 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

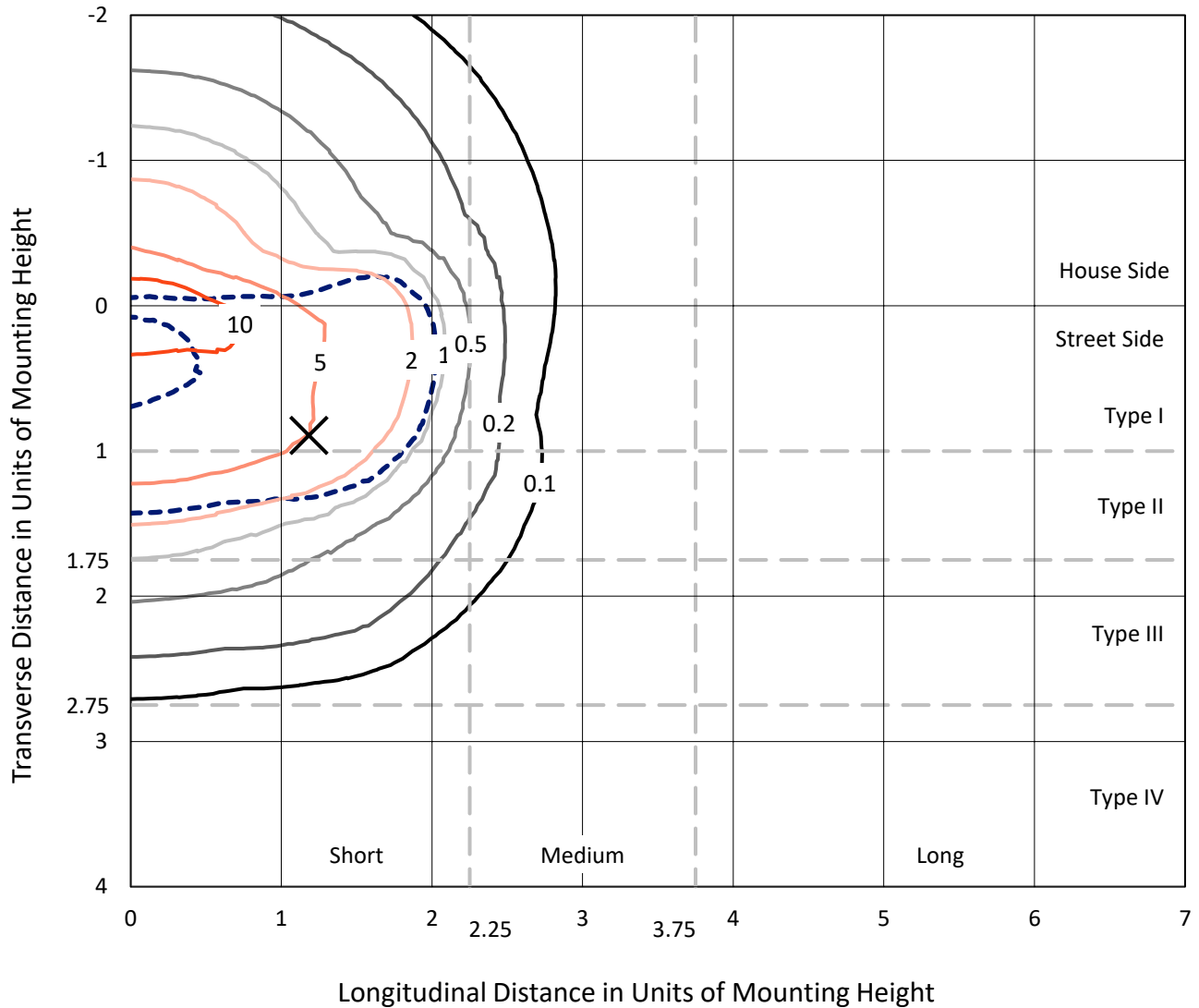
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

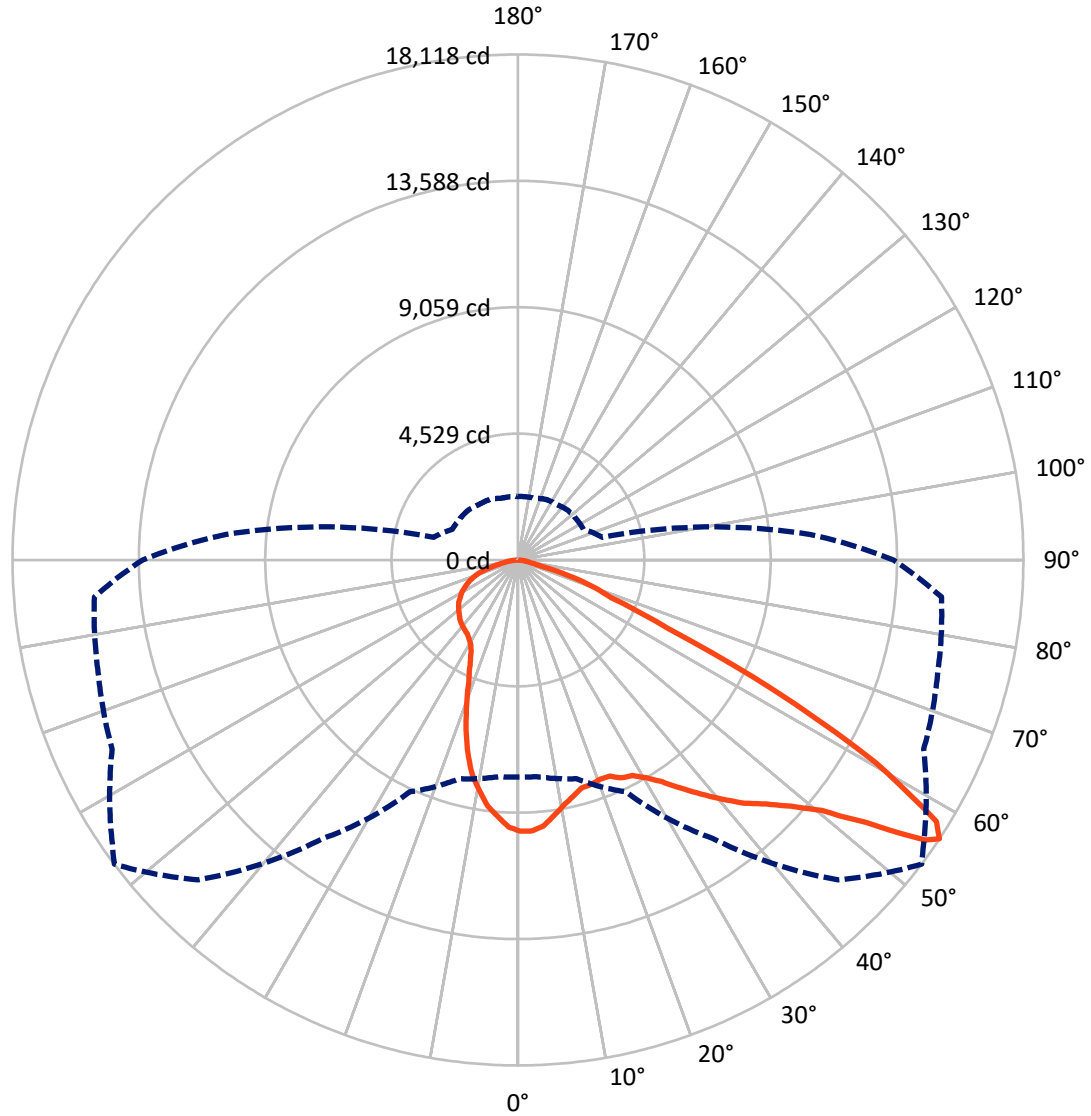
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	8575.8	0.0	8575.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20811.2	0.0	20811.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	29387.0	0.0	29387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.7	2.9
10°-20°	2149.7	7.3
20°-30°	3169.9	10.8
30°-40°	4529.1	15.4
40°-50°	6233.8	21.2
50°-60°	7366.6	25.1
60°-70°	3925.9	13.4
70°-80°	996.0	3.4
80°-90°	155.3	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°	29387.0	100.0
0°-180°	29387.0	100.0

Coefficient of Utilization



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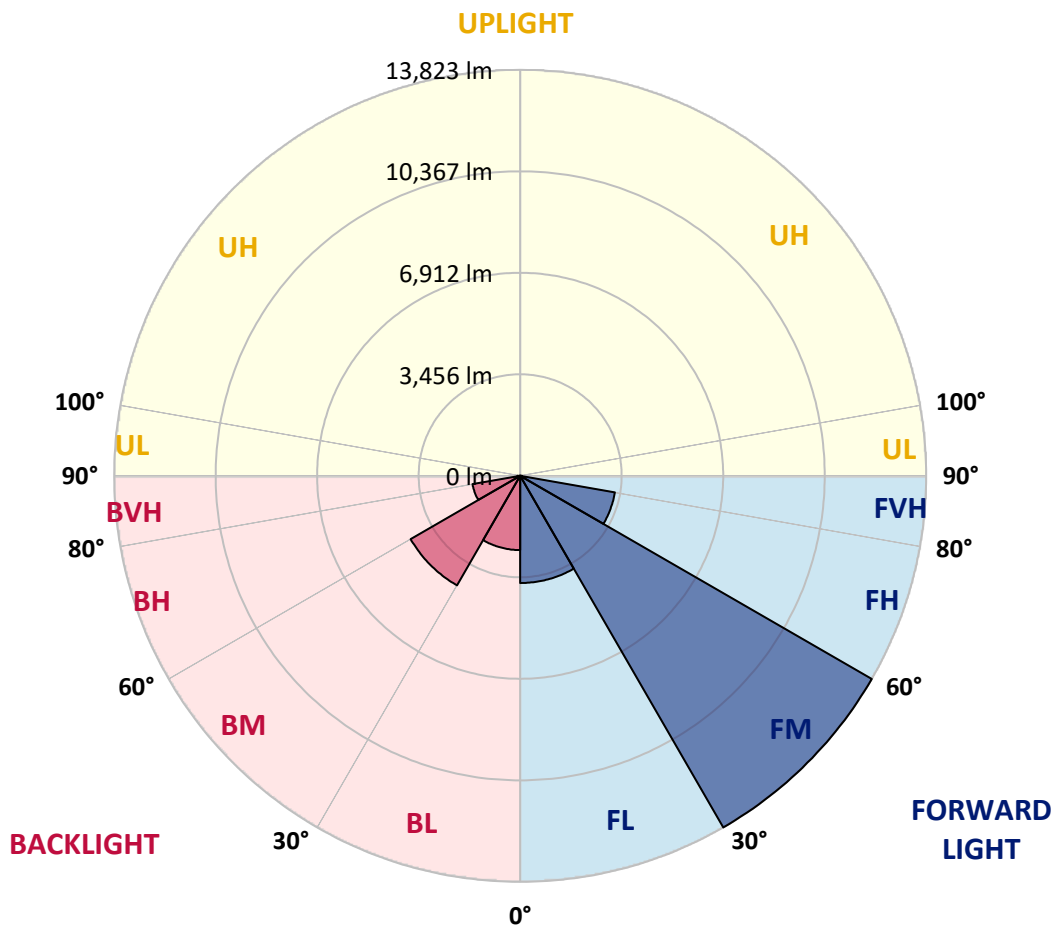
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3650.9	12.4			
FM (30°-60°)	13823.1	47.0			
FH (60°-80°)	3274.8	11.1			G2/5000
FVH (80°-90°)	62.4	0.2			G1/100
BL (0°-30°)	2529.3	8.6	B4/5000		
BM (30°-60°)	4306.5	14.7	B3/5000		
BH (60°-80°)	1647.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	92.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4
2.5°	9601.7	9518.8	9567.8	9549.0	9703.5	9748.8	9726.1	9745.0	9831.7	9790.2	9703.5
5°	8972.2	9089.0	9111.7	9168.2	9258.7	9435.9	9575.4	9613.1	9654.5	9846.8	9827.9
7.5°	8399.2	8478.3	8436.9	8602.7	8798.8	9085.3	9254.9	9285.1	9665.8	9771.4	9850.6
10°	8037.3	7958.1	8146.6	8191.8	8414.2	8742.2	8945.8	9070.2	9417.0	9835.5	9884.5
12.5°	7701.8	7675.4	7788.5	7916.6	8165.4	8504.7	8712.1	8761.1	9296.4	9737.5	9967.4
15°	7452.9	7422.8	7535.9	7630.1	7920.4	8222.0	8485.9	8625.4	9164.4	9680.9	9895.8
17.5°	7256.9	7253.1	7317.2	7486.9	7784.7	8037.3	8463.3	8470.8	9096.6	9767.6	9956.1
20°	7245.6	7241.8	7253.1	7441.6	7713.1	8022.2	8391.6	8459.5	9096.6	9707.3	9959.9
22.5°	7339.8	7279.5	7347.4	7468.0	7664.1	8048.6	8418.0	8568.8	9315.2	10005.1	10129.5
25°	7490.6	7505.7	7543.4	7584.9	7698.0	8108.9	8651.7	8776.2	9571.6	10261.5	10363.2
27.5°	7765.8	7758.3	7773.4	7796.0	7894.0	8165.4	8746.0	9066.4	10106.9	10717.6	10615.8
30°	8169.2	8142.8	8203.1	8282.3	8191.8	8346.4	9058.9	9300.2	10604.5	11177.5	10898.6
32.5°	8534.9	8632.9	8746.0	8779.9	8670.6	8700.8	9473.6	9718.6	11019.2	11743.0	11245.4
35°	8991.0	9070.2	9221.0	9326.5	9307.7	9217.2	10039.0	10363.2	11618.6	12157.7	11611.1
37.5°	9435.9	9530.1	9778.9	10091.8	9918.4	9876.9	10642.2	10909.9	11803.3	12380.1	11878.7
40°	10152.1	10148.4	10578.1	10740.2	10894.8	10823.2	11268.0	11358.5	11901.3	12331.1	11886.3
42.5°	10992.8	10940.0	11377.3	11629.9	11829.7	11837.2	11920.2	11890.0	11946.6	12082.3	11807.1
45°	11792.0	11905.1	12346.2	12798.6	12998.4	13021.0	12470.6	12414.0	12025.7	12010.7	11656.3
47.5°	12768.4	12794.8	13156.7	13752.3	14216.0	14057.7	13183.1	13058.7	12372.6	12489.4	11908.9
50°	12824.9	13021.0	13345.2	14046.4	15471.4	15429.9	14106.7	13873.0	12930.5	13168.0	12613.8
52.5°	11641.2	11596.0	11980.5	13126.5	15377.1	16794.6	15637.2	15079.3	14129.3	13948.4	13756.1
55°	8870.4	8976.0	9315.2	10472.6	13352.7	16813.4	17721.9	17265.8	15411.0	15101.9	14879.5
56°	7780.9	7796.0	8116.4	9172.0	12184.1	16214.0	18117.8	17748.3	16048.1	15576.9	15237.6
57.5°	6450.2	6363.5	6529.3	7106.1	10284.1	14947.4	17684.2	18046.2	16794.6	16089.6	15618.4
60°	5078.0	5059.1	4991.2	5096.8	6499.2	11260.5	14721.2	15535.4	16719.2	15607.1	14958.7
62.5°	4146.8	4052.6	4188.3	4339.1	4516.2	6985.5	10344.4	10823.2	13273.6	12459.3	11237.8
65°	3215.7	3170.4	3340.1	3830.1	3935.7	4437.1	5892.2	6261.7	7837.5	7698.0	6778.1
67.5°	2212.9	2220.4	2367.4	3113.9	3649.2	3604.0	3607.7	3800.0	4090.3	3038.5	2646.4
70°	1402.4	1398.6	1477.8	2005.5	2936.7	2966.9	2816.1	2759.5	2616.3	1583.3	1677.6
72.5°	901.0	874.6	916.1	1108.3	1519.2	1756.7	1809.5	1843.4	1515.5	1244.0	1349.6
75°	508.9	482.5	467.5	516.5	599.4	693.6	761.5	784.1	878.4	942.5	999.0
77.5°	154.6	139.5	169.6	226.2	297.8	399.6	486.3	501.4	591.9	667.3	723.8
80°	67.9	75.4	105.6	150.8	211.1	282.7	343.1	365.7	426.0	482.5	497.6
82.5°	41.5	45.2	71.6	101.8	147.0	199.8	245.0	252.6	312.9	358.1	369.4
85°	15.1	18.8	37.7	60.3	94.2	128.2	128.2	139.5	128.2	128.2	139.5
87.5°	0.0	0.0	3.8	7.5	7.5	11.3	15.1	15.1	18.8	22.6	26.4
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°	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4	9722.4
2.5°	9748.8	9729.9	9699.8	9590.4	9579.1	9545.2	9356.7	9326.5	9356.7	9266.2	9273.8
5°	9729.9	9786.5	9560.3	9451.0	9247.4	9100.4	8930.7	8844.0	8689.4	8591.4	8700.8
7.5°	9812.9	9790.2	9507.5	9270.0	8964.6	8591.4	8293.6	8124.0	7852.5	7777.1	7833.7
10°	9782.7	9662.1	9330.3	9017.4	8440.6	8112.7	7630.1	7162.7	6906.3	6774.4	6755.5
12.5°	9741.2	9707.3	9153.1	8614.0	8007.1	7317.2	6638.7	6197.6	5779.1	5598.2	5624.6
15°	9790.2	9503.7	8821.4	8139.1	7332.3	6427.6	5696.2	5127.0	4836.7	4719.8	4719.8
17.5°	9767.6	9405.7	8663.1	7607.5	6585.9	5515.3	4712.3	4369.2	4248.6	4248.6	4282.5
20°	9778.9	9469.8	8342.6	7076.0	5703.7	4644.4	4060.1	3935.7	3988.5	4007.3	4026.2
22.5°	9843.0	9258.7	8029.7	6491.6	4885.7	3973.4	3686.9	3690.7	3784.9	3886.7	3867.8
25°	9922.2	9175.8	7649.0	5911.1	4259.9	3645.4	3554.9	3543.6	3615.3	3668.0	3675.6
27.5°	9854.3	9032.5	7260.7	5187.3	3747.2	3426.8	3407.9	3415.5	3438.1	3543.6	3509.7
30°	10076.7	9074.0	6774.4	4580.3	3464.5	3355.1	3332.5	3321.2	3355.1	3385.3	3358.9
32.5°	10351.9	8926.9	6412.5	3996.0	3325.0	3302.4	3257.1	3242.0	3260.9	3230.7	3245.8
35°	10472.6	8900.6	5941.2	3577.6	3215.7	3196.8	3170.4	3166.7	3170.4	3144.0	3121.4
37.5°	10540.4	9025.0	5402.2	3385.3	3147.8	3166.7	3106.3	3098.8	3030.9	3046.0	3057.3
40°	10657.3	8832.7	4964.9	3200.6	3106.3	3068.6	3015.9	3004.6	2959.3	2932.9	2959.3
42.5°	10487.7	8776.2	4535.1	3121.4	3046.0	3004.6	2966.9	2902.8	2887.7	2865.1	2850.0
45°	10351.9	8451.9	4150.6	3023.4	2974.4	2951.8	2880.1	2812.3	2755.7	2778.4	2744.4
47.5°	10453.7	8338.9	3769.8	2940.5	2876.4	2850.0	2778.4	2725.6	2669.0	2642.6	2635.1
50°	10860.9	8550.0	3449.4	2880.1	2793.4	2778.4	2684.1	2623.8	2571.0	2552.2	2559.7
52.5°	11833.5	9126.7	3230.7	2755.7	2714.3	2646.4	2593.6	2518.2	2484.3	2424.0	2461.7
55°	13066.2	10065.4	3174.2	2638.9	2616.3	2555.9	2484.3	2427.8	2363.7	2314.7	2303.4
56°	13462.0	10514.0	3129.0	2593.6	2555.9	2522.0	2427.8	2393.8	2292.1	2280.7	2273.2
57.5°	13782.5	10909.9	3136.5	2506.9	2469.2	2439.1	2382.5	2299.6	2231.7	2190.3	2209.1
60°	13058.7	10212.5	2993.2	2375.0	2367.4	2310.9	2231.7	2194.0	2111.1	2062.1	2050.8
62.5°	9707.3	6932.7	2427.8	2205.3	2201.6	2141.3	2050.8	2009.3	1994.2	1926.4	1926.4
65°	5590.6	4346.6	2099.8	2065.9	2035.7	1975.4	1884.9	1851.0	1813.3	1790.7	1771.8
67.5°	2386.3	2254.4	1907.5	1903.8	1869.8	1794.4	1704.0	1651.2	1602.2	1556.9	1579.6
70°	1730.3	1756.7	1722.8	1704.0	1662.5	1568.2	1489.1	1425.0	1349.6	1319.4	1342.1
72.5°	1372.2	1428.8	1477.8	1481.5	1432.5	1323.2	1236.5	1149.8	1066.9	1025.4	1044.2
75°	1040.5	1078.2	1127.2	1138.5	1066.9	991.5	908.5	818.1	754.0	705.0	712.5
77.5°	750.2	742.7	787.9	780.4	746.4	693.6	618.3	535.3	463.7	418.5	422.2
80°	512.7	524.0	550.4	546.6	505.2	471.2	414.7	346.8	294.0	256.3	248.8
82.5°	358.1	377.0	399.6	380.8	346.8	312.9	271.4	222.4	181.0	150.8	143.3
85°	128.2	147.0	169.6	181.0	192.3	184.7	154.6	124.4	90.5	75.4	71.6
87.5°	26.4	30.2	33.9	33.9	33.9	30.2	26.4	26.4	22.6	11.3	11.3
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)