

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: P533704

Luminaire Tested: **GALN-SA9A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533704
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-SA9A-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 25984 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

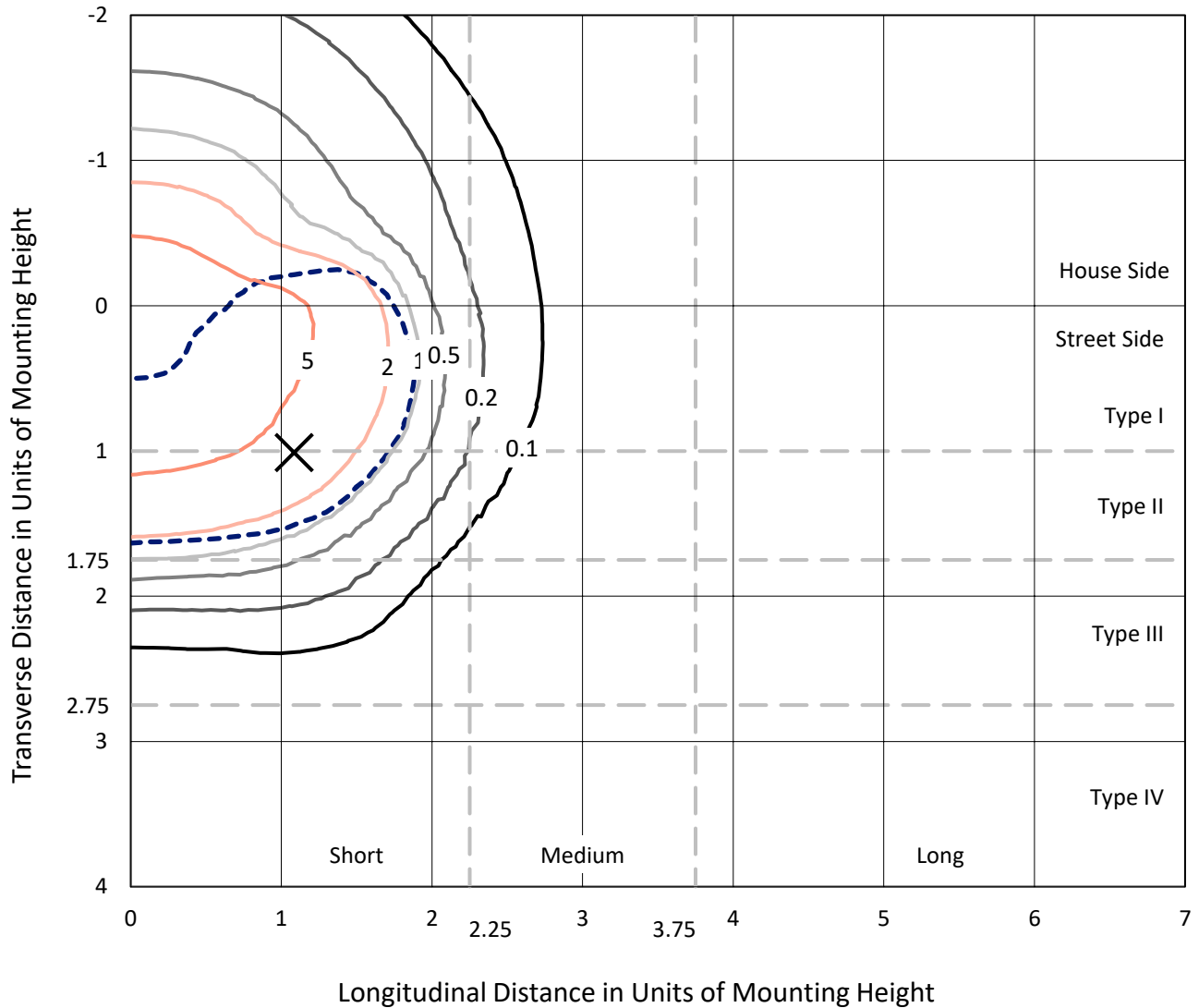
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

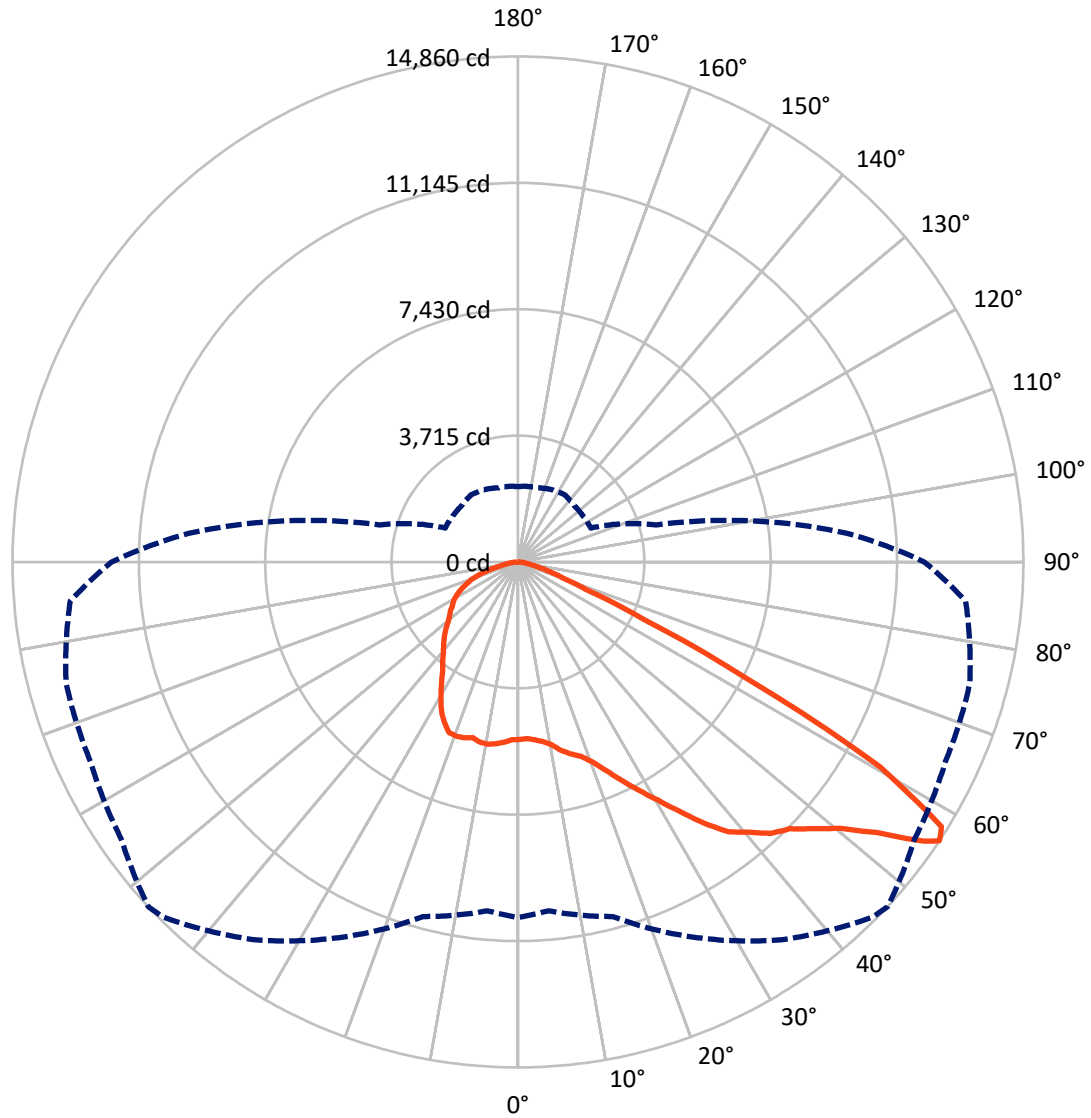
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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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	8234.0	0.0	8234.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17750.0	0.0	17750.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	25984.0	0.0	25984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.6	2.0
10°-20°	1604.2	6.2
20°-30°	2835.9	10.9
30°-40°	4259.5	16.4
40°-50°	5845.7	22.5
50°-60°	6964.4	26.8
60°-70°	2980.3	11.5
70°-80°	843.4	3.2
80°-90°	141.9	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°	25984.0	100.0
0°-180°	25984.0	100.0

Coefficient of Utilization



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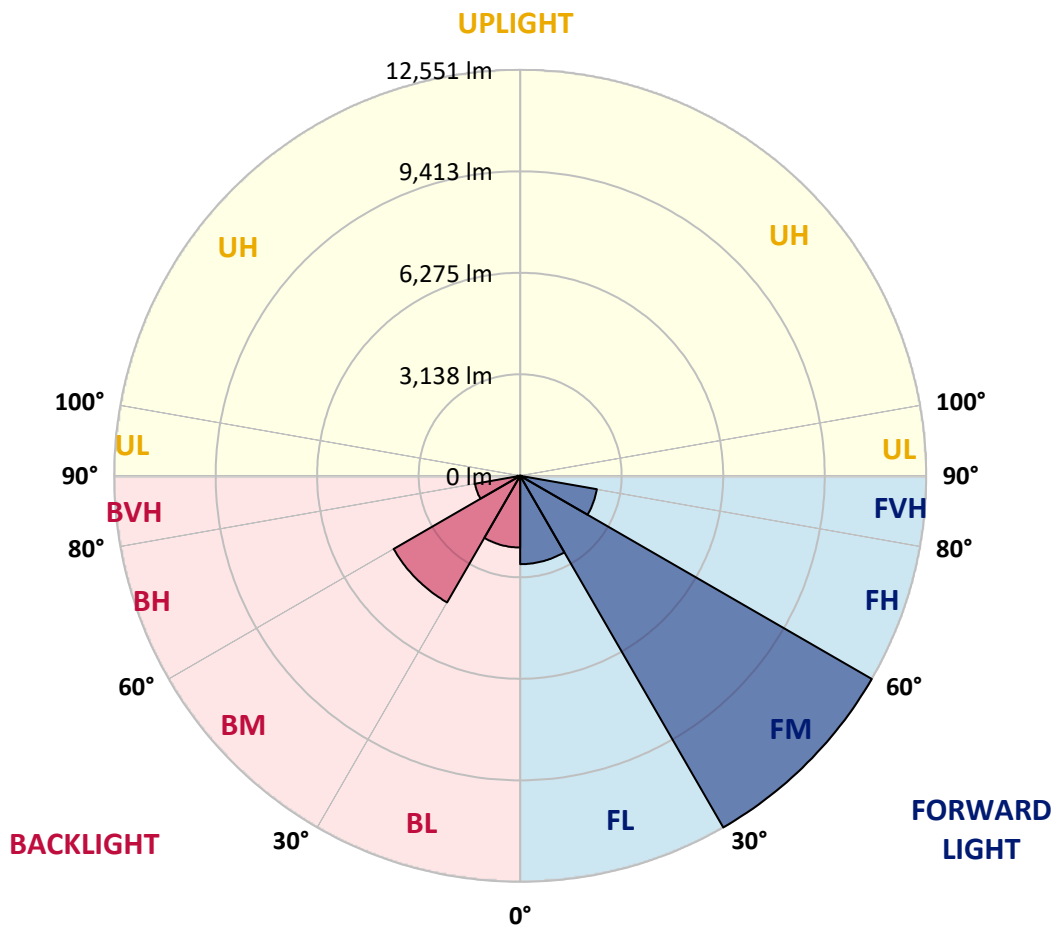
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2731.8	10.5			
FM (30°-60°)	12550.9	48.3			
FH (60°-80°)	2407.1	9.3			G2/5000
FVH (80°-90°)	60.2	0.2			G1/100
BL (0°-30°)	2216.9	8.5	B3/2500		
BM (30°-60°)	4518.7	17.4	B3/5000		
BH (60°-80°)	1416.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	81.7	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°	47°	55°	65°	75°	85°
0°	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4
2.5°	5199.5	5189.6	5182.9	5236.0	5216.1	5219.4	5199.5	5219.4	5232.7	5202.8	5245.9
5°	5189.6	5219.4	5192.9	5209.5	5252.5	5239.3	5252.5	5292.3	5282.4	5272.4	5259.2
7.5°	5282.4	5285.7	5305.6	5312.2	5325.4	5312.2	5332.1	5368.5	5358.6	5302.2	5308.9
10°	5414.9	5421.5	5424.9	5461.3	5484.5	5487.8	5464.6	5431.5	5428.2	5504.4	5451.4
12.5°	5567.4	5550.8	5590.6	5603.8	5630.3	5660.1	5690.0	5620.4	5663.5	5666.8	5603.8
15°	5789.4	5806.0	5759.6	5759.6	5769.5	5772.8	5855.7	5822.5	5815.9	5779.4	5806.0
17.5°	6120.8	6008.1	6004.8	5958.4	5951.8	5978.3	6008.1	6034.6	6124.1	6051.2	5908.7
20°	6362.7	6389.2	6293.1	6236.8	6246.7	6306.4	6276.5	6395.8	6458.8	6339.5	6200.3
22.5°	6790.2	6700.7	6723.9	6598.0	6607.9	6670.9	6667.6	6790.2	6826.6	6637.7	6435.6
25°	7078.5	7055.3	7075.2	6975.8	6989.0	7038.7	7118.3	7320.4	7260.8	7052.0	6584.7
27.5°	7499.4	7453.0	7436.4	7399.9	7386.7	7519.2	7612.0	7827.4	7784.4	7479.5	6849.8
30°	7930.2	7900.3	7916.9	7767.8	7820.8	8102.5	8129.0	8423.9	8404.1	7867.2	7144.8
32.5°	8228.4	8245.0	8274.8	8192.0	8427.3	8652.6	8742.1	9076.8	9093.3	8533.3	7714.8
35°	8708.9	8652.6	8669.2	8765.3	8874.6	9285.6	9431.4	9653.4	9792.6	9232.5	8261.6
37.5°	9010.5	9070.2	9000.6	9153.0	9438.0	9931.8	10064.3	10293.0	10438.8	9921.8	9007.2
40°	9481.1	9385.0	9434.7	9544.0	9835.7	10478.6	10442.1	10677.4	10723.8	10508.4	9703.1
42.5°	9988.1	9941.7	9872.1	10120.7	10365.9	10833.1	10906.1	10796.7	11032.0	11081.7	10697.3
45°	10594.5	10650.9	10660.8	10667.5	10882.9	11290.5	11191.0	11094.9	11366.7	11727.9	11313.7
47.5°	11157.9	10979.0	11108.2	11287.2	11592.0	11595.3	11711.3	11482.7	11771.0	12092.4	11870.4
50°	11346.8	11260.6	11433.0	11771.0	12241.6	12291.3	12304.5	11979.8	12128.9	12384.1	12062.6
52.5°	11273.9	11244.1	11684.8	12208.4	12897.7	13149.6	13215.8	12814.9	12897.7	12781.7	12486.8
55°	10925.9	11015.4	11459.5	12526.6	13583.7	14362.5	14488.4	13981.4	13454.4	13543.9	13219.2
56°	10448.7	10293.0	10790.1	12165.3	13553.9	14756.8	14859.5	14226.6	13868.7	13752.7	13212.5
57.5°	8864.7	8662.5	9315.4	10945.8	12801.6	14607.7	14683.9	14329.3	13799.1	13563.8	12248.2
60°	5189.6	5289.0	6117.5	7549.1	9875.4	11976.4	12231.6	12490.1	12135.5	11081.7	9116.5
62.5°	2505.3	2442.3	3035.5	4328.0	6018.0	7645.2	7569.0	8294.7	8692.4	7873.8	5756.2
65°	1312.3	1305.7	1657.0	2362.8	3307.3	4016.4	4086.0	4477.1	5023.9	4056.2	2922.9
67.5°	964.3	990.9	1166.5	1660.3	2127.5	2170.6	2160.7	2356.2	2409.2	2038.0	1796.1
70°	755.6	768.8	898.1	1262.6	1584.0	1418.4	1388.5	1411.7	1567.5	1633.8	1554.2
72.5°	546.8	560.0	669.4	851.7	990.9	967.7	987.5	1116.8	1309.0	1378.6	1295.7
75°	364.5	374.5	434.1	520.3	586.6	633.0	669.4	818.5	997.5	1037.3	997.5
77.5°	251.9	261.8	301.6	367.8	374.5	404.3	417.6	487.1	596.5	646.2	619.7
80°	142.5	142.5	162.4	188.9	232.0	271.7	278.4	334.7	384.4	417.6	424.2
82.5°	66.3	69.6	86.2	116.0	152.4	188.9	195.5	232.0	268.4	301.6	311.5
85°	33.1	36.5	49.7	69.6	92.8	112.7	109.4	112.7	119.3	112.7	116.0
87.5°	9.9	9.9	13.3	16.6	13.3	16.6	16.6	19.9	23.2	26.5	29.8
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°	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4	5219.4
2.5°	5249.2	5259.2	5192.9	5255.8	5232.7	5229.3	5275.7	5269.1	5285.7	5279.0	5239.3
5°	5252.5	5229.3	5298.9	5236.0	5265.8	5328.8	5285.7	5385.1	5335.4	5368.5	5295.6
7.5°	5355.3	5361.9	5348.6	5375.1	5361.9	5391.7	5368.5	5391.7	5352.0	5355.3	5421.5
10°	5444.7	5424.9	5448.1	5414.9	5438.1	5428.2	5375.1	5358.6	5371.8	5355.3	5398.3
12.5°	5610.4	5574.0	5557.4	5517.6	5491.1	5391.7	5308.9	5262.5	5325.4	5335.4	5315.5
15°	5779.4	5782.8	5706.5	5617.1	5451.4	5302.2	5322.1	5338.7	5338.7	5365.2	5315.5
17.5°	5885.5	5885.5	5815.9	5636.9	5467.9	5381.8	5361.9	5308.9	5262.5	5255.8	5252.5
20°	6071.1	6014.7	5855.7	5633.6	5461.3	5421.5	5272.4	5146.5	5050.4	5017.2	5013.9
22.5°	6283.2	6140.7	5918.6	5640.3	5451.4	5395.0	5116.7	4927.8	4755.4	4682.5	4692.5
25°	6478.7	6250.0	5955.1	5610.4	5414.9	5143.2	4831.7	4569.9	4390.9	4331.3	4301.4
27.5°	6614.5	6366.0	5955.1	5636.9	5279.0	4861.5	4543.4	4208.7	4052.9	4013.1	4019.8
30°	6796.8	6511.8	6057.8	5580.6	5007.3	4497.0	4115.9	3897.1	3804.4	3771.2	3794.4
32.5°	7224.3	6892.9	6200.3	5444.7	4685.9	4132.4	3824.2	3701.6	3565.8	3499.5	3476.3
35°	7688.3	7254.1	6339.5	5216.1	4324.6	3801.0	3608.8	3496.2	3333.8	3260.9	3274.1
37.5°	8344.4	7718.1	6349.4	4838.3	3933.6	3615.5	3439.8	3264.2	3131.6	3019.0	2985.8
40°	9229.2	8351.0	6326.2	4440.6	3618.8	3396.7	3267.5	3048.8	2899.7	2820.1	2836.7
42.5°	10008.0	9093.3	6230.1	3989.9	3333.8	3247.6	3101.8	2886.4	2740.6	2657.7	2651.1
45°	10664.1	9640.1	6047.9	3605.5	3095.2	3081.9	2912.9	2747.2	2631.2	2555.0	2588.2
47.5°	11270.6	10080.9	5772.8	3221.1	2876.5	2903.0	2740.6	2637.9	2565.0	2495.4	2492.1
50°	11489.3	10074.3	5530.9	2903.0	2700.8	2687.6	2680.9	2571.6	2495.4	2435.7	2462.2
52.5°	11853.8	10186.9	5269.1	2684.3	2541.8	2545.1	2568.3	2488.7	2402.6	2366.1	2399.3
55°	12377.4	10203.5	4692.5	2429.1	2409.2	2432.4	2432.4	2379.4	2306.5	2276.7	2260.1
56°	11949.9	9709.7	4208.7	2362.8	2342.9	2342.9	2405.9	2346.2	2256.8	2233.6	2213.7
57.5°	11022.0	8506.8	3522.7	2283.3	2253.5	2299.8	2333.0	2270.0	2187.2	2154.0	2173.9
60°	7602.1	5756.2	2647.8	2111.0	2111.0	2187.2	2213.7	2120.9	2084.4	2081.1	2054.6
62.5°	4437.3	3353.7	2071.2	1955.2	1961.8	2024.8	2044.7	1991.7	1945.3	2001.6	2028.1
65°	2352.9	2001.6	1776.3	1789.5	1792.8	1842.5	1928.7	1925.4	1922.1	1938.6	1941.9
67.5°	1703.3	1663.6	1613.9	1600.6	1607.2	1643.7	1729.9	1796.1	1792.8	1753.1	1723.2
70°	1517.8	1461.4	1431.6	1434.9	1408.4	1451.5	1521.1	1564.2	1487.9	1441.5	1421.7
72.5°	1262.6	1246.0	1226.1	1229.5	1176.4	1166.5	1087.0	1087.0	1067.1	1053.8	1077.0
75°	964.3	957.7	967.7	951.1	894.8	835.1	788.7	745.6	679.3	652.8	639.6
77.5°	609.8	629.6	652.8	616.4	593.2	550.1	503.7	460.6	407.6	377.8	377.8
80°	414.2	430.8	447.4	440.7	414.2	374.5	338.0	291.6	255.2	232.0	228.7
82.5°	314.8	328.1	351.3	324.8	298.3	265.1	235.3	202.1	169.0	142.5	142.5
85°	112.7	129.2	142.5	155.8	165.7	169.0	145.8	119.3	96.1	76.2	72.9
87.5°	29.8	33.1	36.5	33.1	33.1	33.1	36.5	33.1	29.8	23.2	23.2
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)