

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: P531364

Luminaire Tested: **GALN-SA6C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531364
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-SA6C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 26129 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

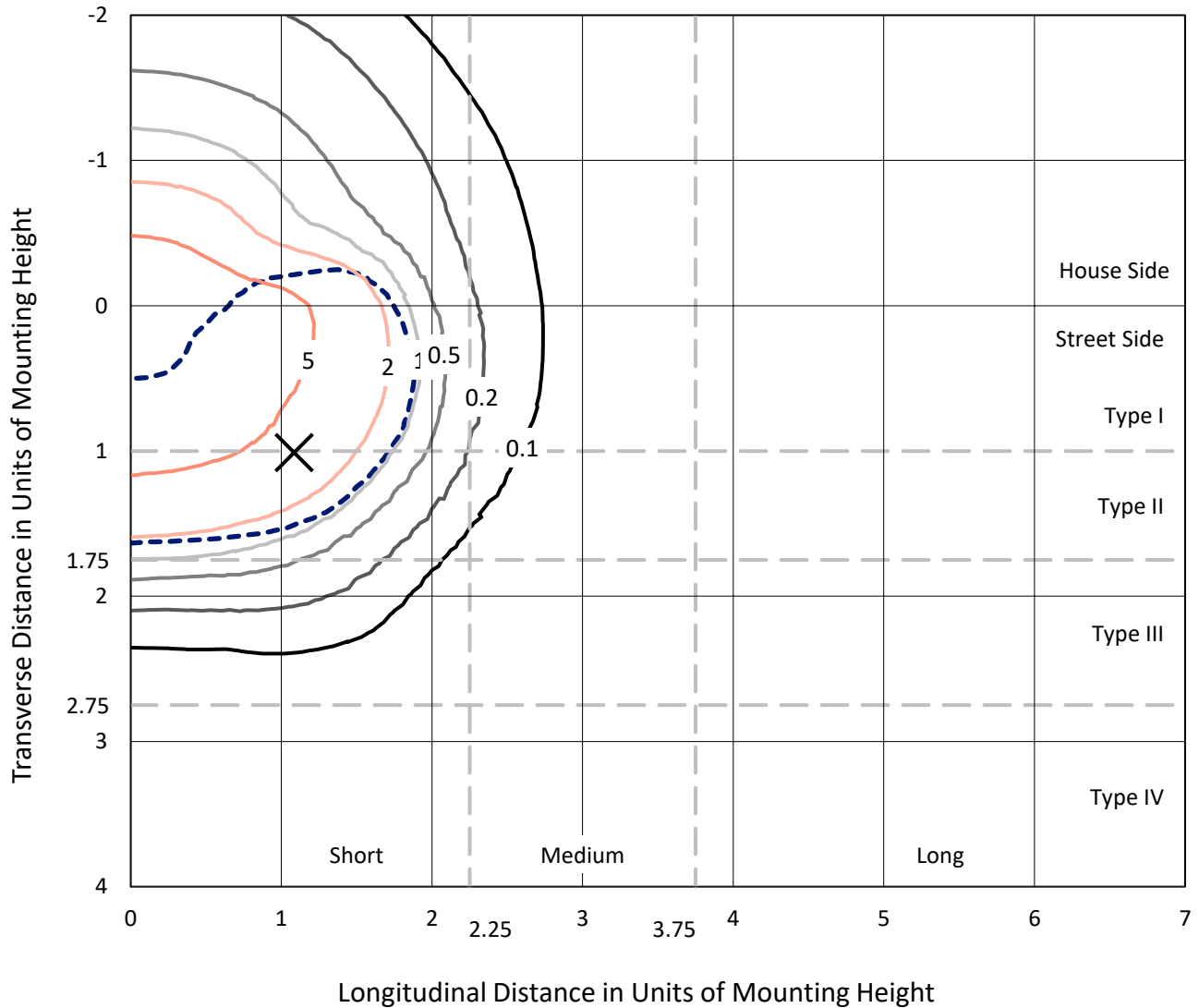
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

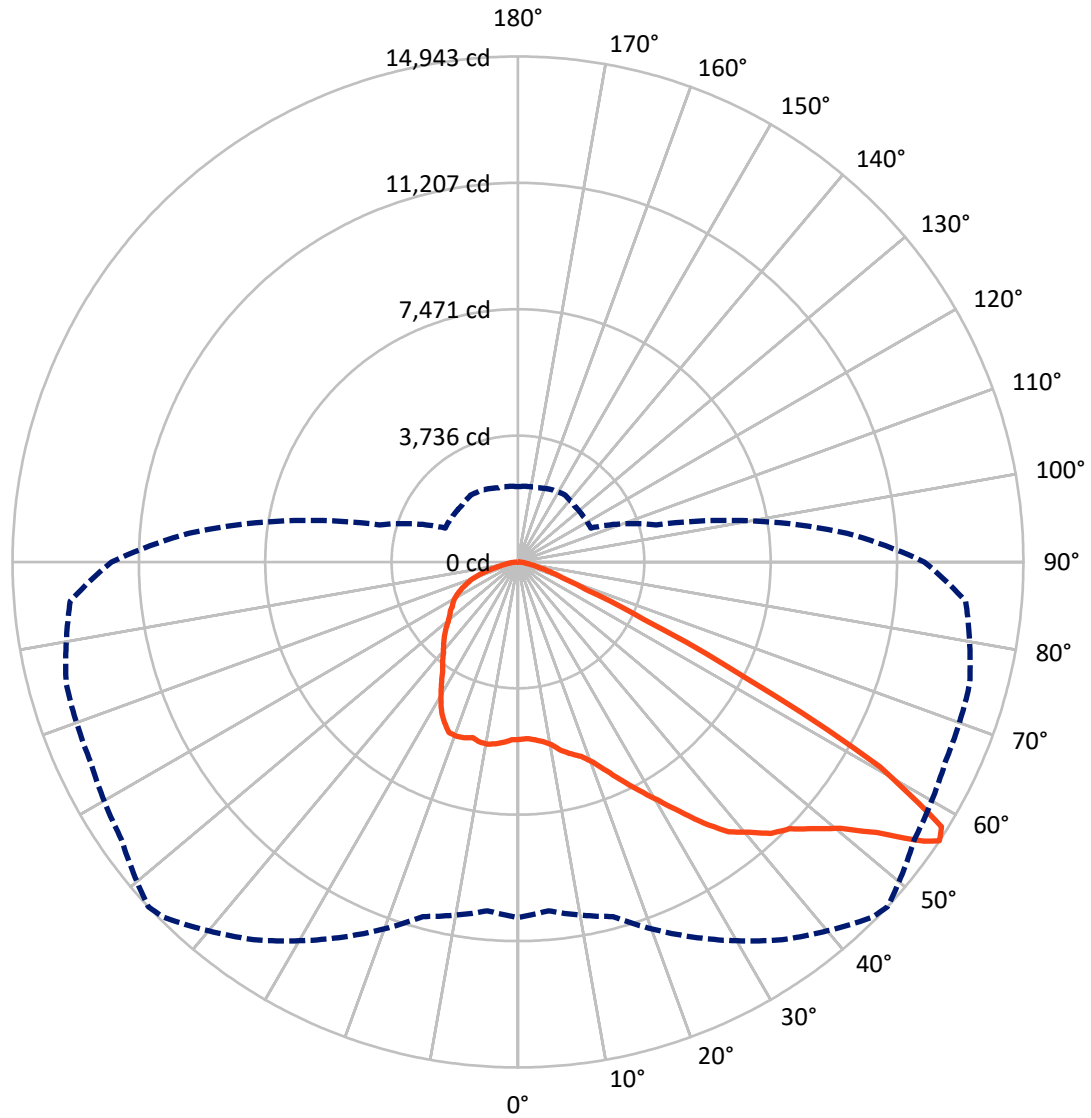
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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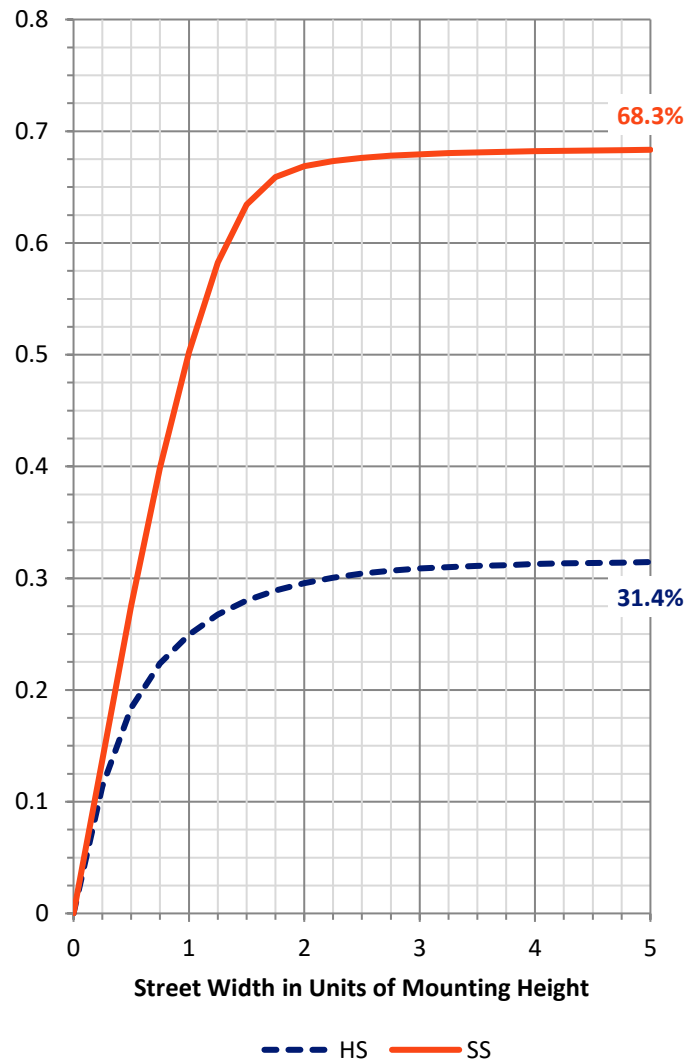
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8280.0	0.0	8280.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17849.0	0.0	17849.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	26129.0	0.0	26129.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	2.0
10°-20°	1613.2	6.2
20°-30°	2851.8	10.9
30°-40°	4283.2	16.4
40°-50°	5878.3	22.5
50°-60°	7003.2	26.8
60°-70°	2997.0	11.5
70°-80°	848.1	3.2
80°-90°	142.7	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°	26129.0	100.0
0°-180°	26129.0	100.0

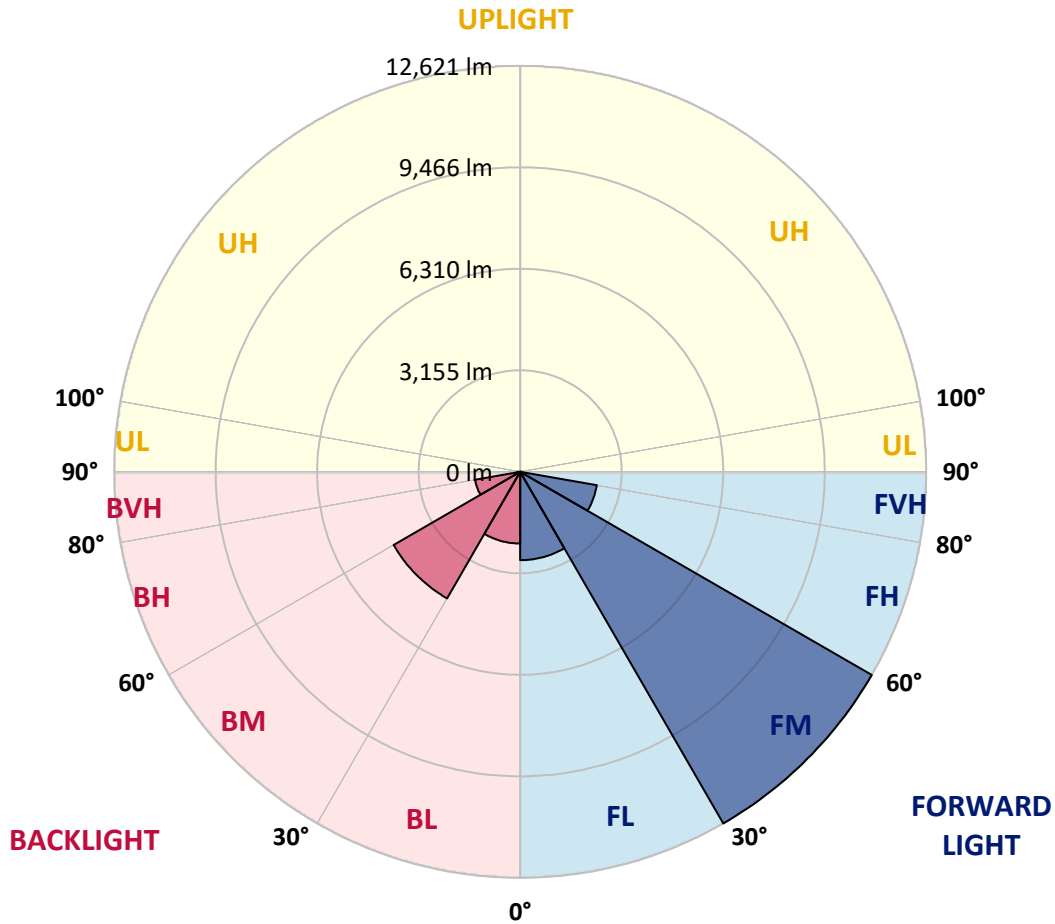


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2747.0	10.5			
FM (30°-60°)	12620.9	48.3			
FH (60°-80°)	2420.5	9.3			G2/5000
FVH (80°-90°)	60.6	0.2			G1/100
BL (0°-30°)	2229.3	8.5	B3/2500		
BM (30°-60°)	4543.9	17.4	B3/5000		
BH (60°-80°)	1424.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	82.1	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°	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5
2.5°	5228.5	5218.5	5211.9	5265.2	5245.2	5248.5	5228.5	5248.5	5261.9	5231.9	5275.2
5°	5218.5	5248.5	5221.9	5238.5	5281.8	5268.5	5281.8	5321.8	5311.8	5301.8	5288.5
7.5°	5311.8	5315.2	5335.2	5341.8	5355.2	5341.8	5361.8	5398.5	5388.5	5331.8	5338.5
10°	5445.1	5451.8	5455.1	5491.8	5515.1	5518.4	5495.1	5461.8	5458.5	5535.1	5481.8
12.5°	5598.4	5581.8	5621.8	5635.1	5661.7	5691.7	5721.7	5651.7	5695.1	5698.4	5635.1
15°	5821.7	5838.4	5791.7	5791.7	5801.7	5805.0	5888.3	5855.0	5848.4	5811.7	5838.4
17.5°	6154.9	6041.6	6038.3	5991.6	5985.0	6011.6	6041.6	6068.3	6158.3	6085.0	5941.7
20°	6398.2	6424.9	6328.2	6271.6	6281.6	6341.5	6311.6	6431.5	6494.8	6374.9	6234.9
22.5°	6828.1	6738.1	6761.4	6634.8	6644.8	6708.1	6704.8	6828.1	6864.7	6674.8	6471.5
25°	7118.0	7094.7	7114.7	7014.7	7028.0	7078.0	7158.0	7361.3	7301.3	7091.3	6621.5
27.5°	7541.2	7494.6	7477.9	7441.2	7427.9	7561.2	7654.5	7871.1	7827.8	7521.2	6888.1
30°	7974.4	7944.4	7961.1	7811.1	7864.5	8147.7	8174.4	8470.9	8451.0	7911.1	7184.6
32.5°	8274.3	8291.0	8321.0	8237.7	8474.3	8700.9	8790.9	9127.4	9144.1	8580.9	7757.8
35°	8757.5	8700.9	8717.5	8814.2	8924.2	9337.4	9484.0	9707.3	9847.2	9284.1	8307.7
37.5°	9060.8	9120.8	9050.8	9204.1	9490.7	9987.2	10120.5	10350.4	10497.0	9977.2	9057.4
40°	9534.0	9437.3	9487.3	9597.3	9890.5	10537.0	10500.4	10737.0	10783.6	10567.0	9757.3
42.5°	10043.8	9997.2	9927.2	10177.1	10423.7	10893.6	10966.9	10856.9	11093.5	11143.5	10757.0
45°	10653.7	10710.3	10720.3	10727.0	10943.6	11353.5	11253.5	11156.9	11430.1	11793.3	11376.8
47.5°	11220.2	11040.2	11170.2	11350.1	11656.7	11660.1	11776.7	11546.7	11836.7	12159.9	11936.6
50°	11410.1	11323.5	11496.8	11836.7	12309.9	12359.9	12373.2	12046.6	12196.6	12453.2	12129.9
52.5°	11336.8	11306.8	11750.0	12276.5	12969.7	13222.9	13289.6	12886.4	12969.7	12853.0	12556.5
55°	10986.9	11076.9	11523.4	12596.5	13659.5	14442.6	14569.2	14059.4	13529.5	13619.5	13292.9
56°	10507.0	10350.4	10850.3	12233.2	13629.5	14839.2	14942.5	14306.0	13946.1	13829.4	13286.3
57.5°	8914.2	8710.9	9367.4	11006.9	12873.0	14689.2	14765.8	14409.3	13876.1	13639.5	12316.5
60°	5218.5	5318.5	6151.6	7591.2	9930.5	12043.3	12299.9	12559.8	12203.2	11143.5	9167.4
62.5°	2519.3	2456.0	3052.5	4352.1	6051.6	7687.8	7611.2	8341.0	8740.9	7917.8	5788.4
65°	1319.6	1313.0	1666.2	2376.0	3325.7	4038.9	4108.8	4502.1	5051.9	4078.9	2939.2
67.5°	969.7	996.4	1173.0	1669.5	2139.4	2182.7	2172.7	2369.3	2422.7	2049.4	1806.2
70°	759.8	773.1	903.1	1269.6	1592.9	1426.3	1396.3	1419.6	1576.2	1642.9	1562.9
72.5°	549.8	563.2	673.1	856.4	996.4	973.1	993.1	1123.0	1316.3	1386.3	1303.0
75°	366.6	376.6	436.5	523.2	589.8	636.5	673.1	823.1	1003.1	1043.0	1003.1
77.5°	253.3	263.3	303.2	369.9	376.6	406.6	419.9	489.9	599.8	649.8	623.2
80°	143.3	143.3	163.3	189.9	233.3	273.3	279.9	336.6	386.6	419.9	426.5
82.5°	66.6	70.0	86.6	116.6	153.3	189.9	196.6	233.3	269.9	303.2	313.2
85°	33.3	36.7	50.0	70.0	93.3	113.3	110.0	113.3	120.0	113.3	116.6
87.5°	10.0	10.0	13.3	16.7	13.3	16.7	16.7	20.0	23.3	26.7	30.0
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°	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5
2.5°	5278.5	5288.5	5221.9	5285.2	5261.9	5258.5	5305.2	5298.5	5315.2	5308.5	5268.5
5°	5281.8	5258.5	5328.5	5265.2	5295.2	5358.5	5315.2	5415.1	5365.2	5398.5	5325.2
7.5°	5385.2	5391.8	5378.5	5405.1	5391.8	5421.8	5398.5	5421.8	5381.8	5385.2	5451.8
10°	5475.1	5455.1	5478.5	5445.1	5468.5	5458.5	5405.1	5388.5	5401.8	5385.2	5428.5
12.5°	5641.7	5605.1	5588.4	5548.4	5521.8	5421.8	5338.5	5291.8	5355.2	5365.2	5345.2
15°	5811.7	5815.0	5738.4	5648.4	5481.8	5331.8	5351.8	5368.5	5368.5	5395.1	5345.2
17.5°	5918.3	5918.3	5848.4	5668.4	5498.5	5411.8	5391.8	5338.5	5291.8	5285.2	5281.8
20°	6104.9	6048.3	5888.3	5665.1	5491.8	5451.8	5301.8	5175.2	5078.6	5045.2	5041.9
22.5°	6318.2	6174.9	5951.7	5671.7	5481.8	5425.1	5145.2	4955.3	4782.0	4708.7	4718.7
25°	6514.8	6284.9	5988.3	5641.7	5445.1	5171.9	4858.6	4595.4	4415.4	4355.4	4325.4
27.5°	6651.5	6401.5	5988.3	5668.4	5308.5	4888.6	4568.7	4232.1	4075.5	4035.5	4042.2
30°	6834.7	6548.2	6091.6	5611.8	5035.2	4522.1	4138.8	3918.9	3825.6	3792.3	3815.6
32.5°	7264.6	6931.4	6234.9	5475.1	4712.0	4155.5	3845.6	3722.3	3585.7	3519.0	3495.7
35°	7731.2	7294.6	6374.9	5245.2	4348.8	3822.3	3629.0	3515.7	3352.4	3279.1	3292.4
37.5°	8391.0	7761.1	6384.9	4865.3	3955.6	3635.6	3459.0	3282.4	3149.1	3035.8	3002.5
40°	9280.7	8397.6	6361.5	4465.4	3639.0	3415.7	3285.7	3065.8	2915.8	2835.9	2852.5
42.5°	10063.8	9144.1	6264.9	4012.2	3352.4	3265.7	3119.1	2902.5	2755.9	2672.6	2665.9
45°	10723.6	9693.9	6081.6	3625.6	3112.5	3099.1	2929.2	2762.6	2645.9	2569.3	2602.6
47.5°	11333.5	10137.1	5805.0	3239.1	2892.5	2919.2	2755.9	2652.6	2579.3	2509.3	2506.0
50°	11553.4	10130.5	5561.8	2919.2	2715.9	2702.6	2695.9	2585.9	2509.3	2449.3	2476.0
52.5°	11920.0	10243.8	5298.5	2699.2	2555.9	2559.3	2582.6	2502.6	2416.0	2379.3	2412.7
55°	12446.5	10260.4	4718.7	2442.6	2422.7	2446.0	2446.0	2392.7	2319.3	2289.4	2272.7
56°	12016.6	9763.9	4232.1	2376.0	2356.0	2356.0	2419.3	2359.3	2269.4	2246.0	2226.0
57.5°	11083.5	8554.3	3542.3	2296.0	2266.0	2312.7	2346.0	2282.7	2199.4	2166.1	2186.1
60°	7644.5	5788.4	2662.6	2122.7	2122.7	2199.4	2226.0	2132.7	2096.1	2092.7	2066.1
62.5°	4462.1	3372.4	2082.7	1966.1	1972.8	2036.1	2056.1	2002.8	1956.1	2012.8	2039.4
65°	2366.0	2012.8	1786.2	1799.5	1802.8	1852.8	1939.5	1936.1	1932.8	1949.5	1952.8
67.5°	1712.9	1672.9	1622.9	1609.5	1616.2	1652.9	1739.5	1806.2	1802.8	1762.8	1732.8
70°	1526.2	1469.6	1439.6	1442.9	1416.3	1459.6	1529.6	1572.9	1496.2	1449.6	1429.6
72.5°	1269.6	1253.0	1233.0	1236.3	1183.0	1173.0	1093.0	1093.0	1073.0	1059.7	1083.0
75°	969.7	963.1	973.1	956.4	899.7	839.8	793.1	749.8	683.1	656.5	643.2
77.5°	613.2	633.2	656.5	619.8	596.5	553.2	506.5	463.2	409.9	379.9	379.9
80°	416.5	433.2	449.9	443.2	416.5	376.6	339.9	293.3	256.6	233.3	229.9
82.5°	316.6	329.9	353.2	326.6	299.9	266.6	236.6	203.3	170.0	143.3	143.3
85°	113.3	130.0	143.3	156.6	166.6	170.0	146.6	120.0	96.6	76.6	73.3
87.5°	30.0	33.3	36.7	33.3	33.3	33.3	36.7	33.3	30.0	23.3	23.3
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)