

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: P531366

Luminaire Tested: **GALN-SA6C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
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-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26753 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

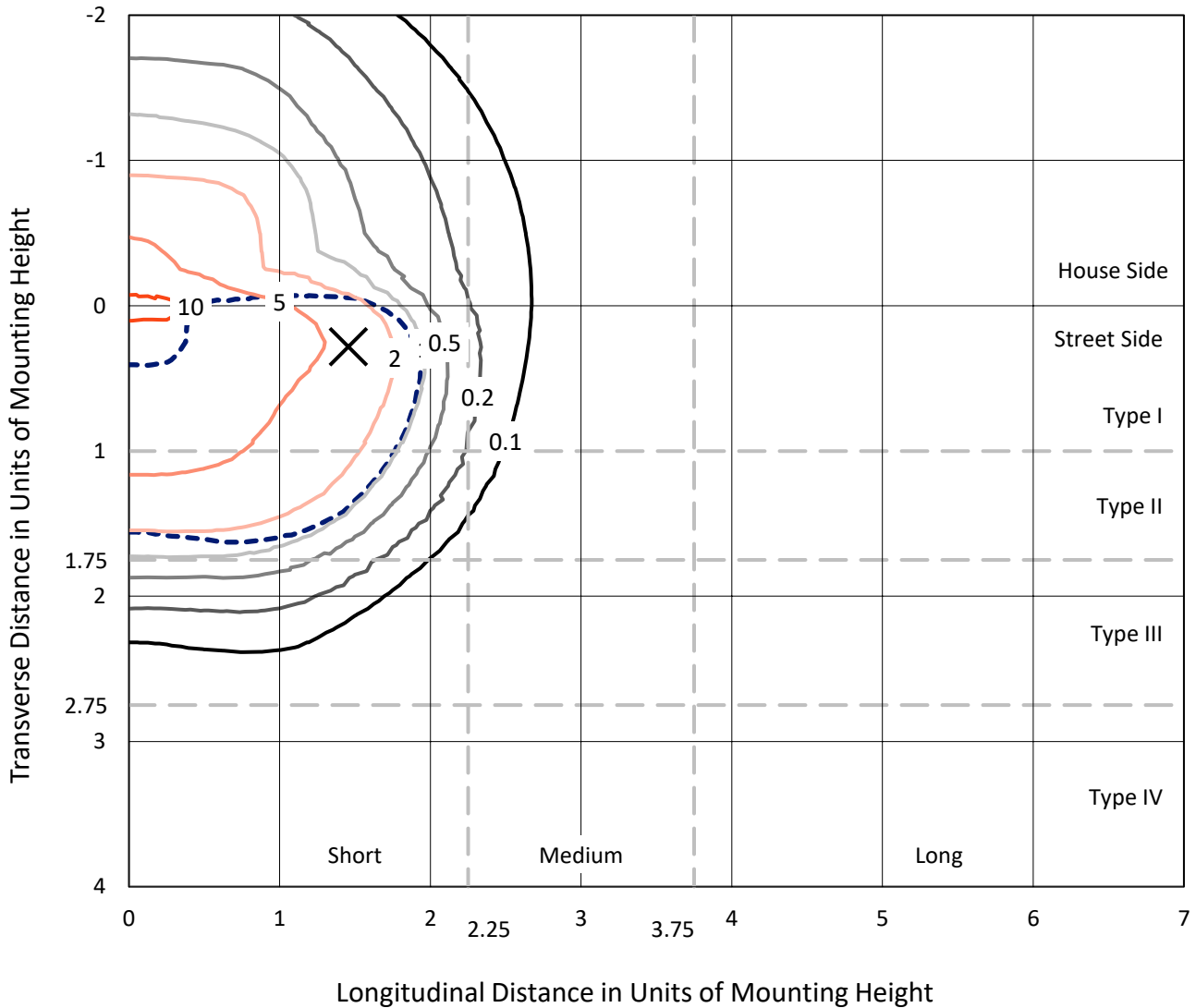
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

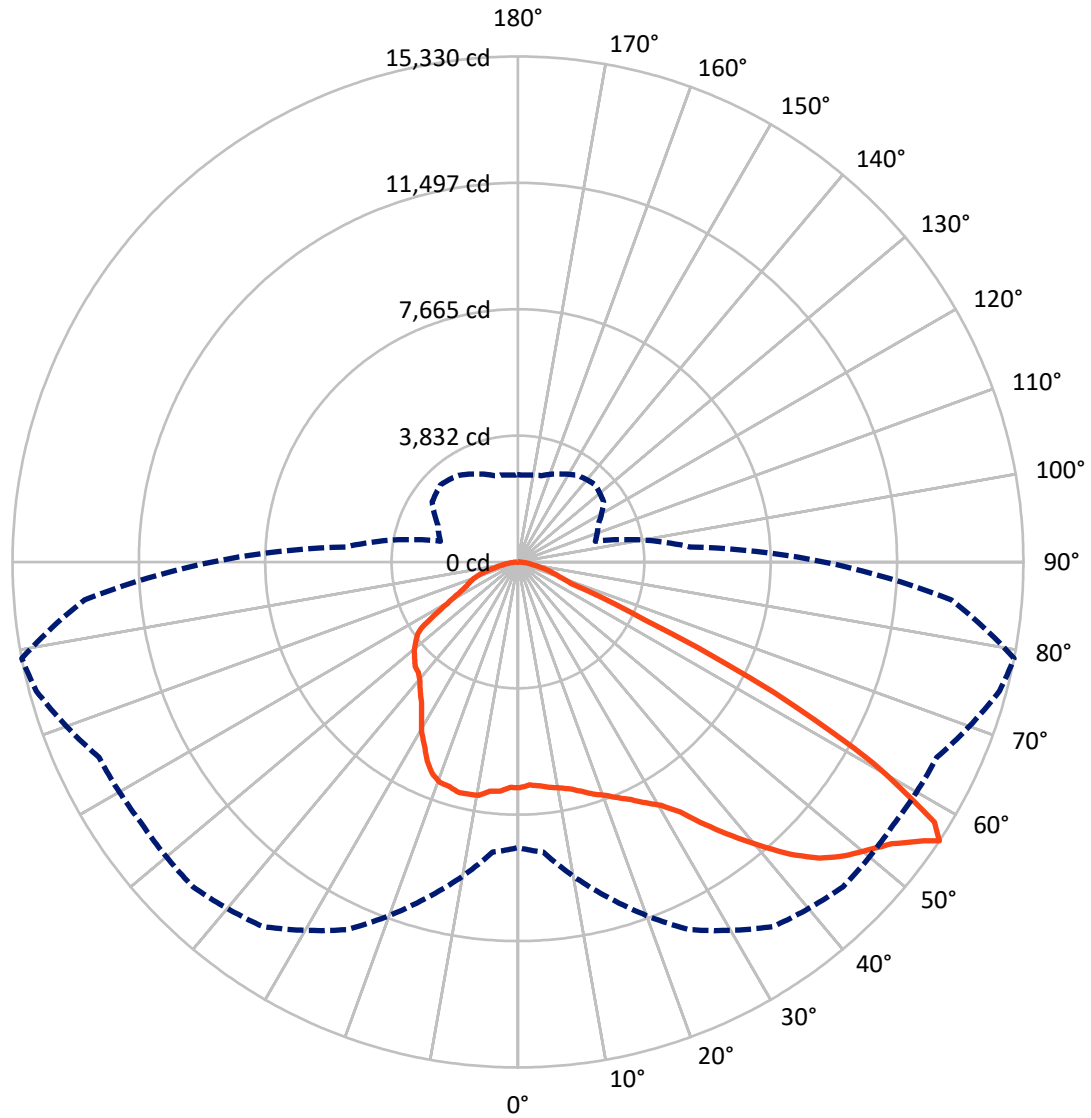
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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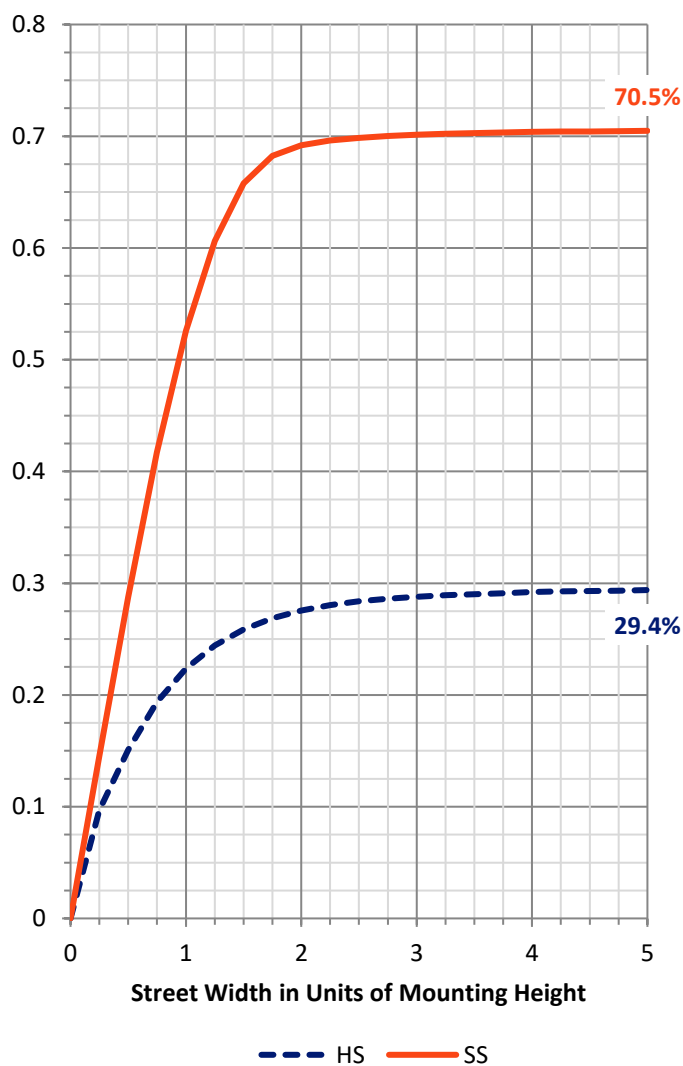
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7900.7	0.0	7900.7
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	18852.3	0.0	18852.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	26753.0	0.0	26753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.3	2.3
10°-20°	1703.2	6.4
20°-30°	2913.8	10.9
30°-40°	4465.8	16.7
40°-50°	6035.5	22.6
50°-60°	6932.0	25.9
60°-70°	3159.8	11.8
70°-80°	779.0	2.9
80°-90°	141.6	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°	26753.0	100.0
0°-180°	26753.0	100.0

**Coefficient of Utilization**



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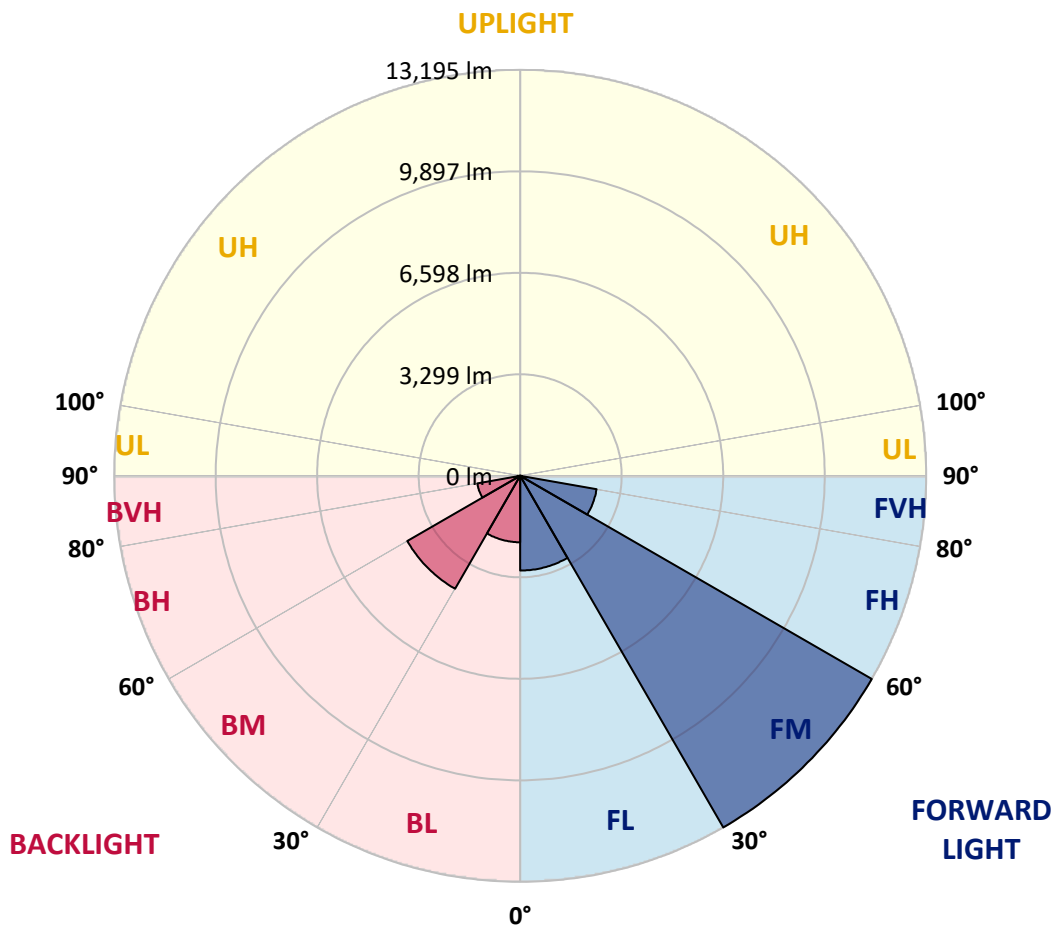
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.2	11.5			
FM (30°-60°)	13195.4	49.3			
FH (60°-80°)	2522.2	9.4			G2/5000
FVH (80°-90°)	56.5	0.2			G1/100
BL (0°-30°)	2161.2	8.1	B3/2500		
BM (30°-60°)	4237.9	15.8	B3/5000		
BH (60°-80°)	1416.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	85.1	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°	55°	65°	75°	79°	85°
0°	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0
2.5°	6511.8	6495.1	6535.1	6565.1	6601.8	6648.4	6671.7	6685.1	6801.7	6771.7	6861.7
5°	6371.8	6328.5	6358.5	6381.8	6445.1	6501.8	6565.1	6665.1	6771.7	6818.4	6928.3
7.5°	6248.5	6225.2	6218.5	6235.2	6321.8	6395.1	6505.1	6651.7	6825.0	6901.7	6965.0
10°	6045.2	6011.9	6061.9	6171.9	6195.2	6348.5	6475.1	6685.1	6835.0	6968.3	7155.0
12.5°	5955.2	5921.9	5931.9	5995.2	6158.5	6305.2	6455.1	6691.7	7008.3	7061.6	7311.6
15°	6098.5	6065.2	6075.2	6058.6	6215.2	6291.8	6528.4	6825.0	7128.3	7218.3	7484.9
17.5°	6425.1	6428.5	6385.1	6348.5	6311.8	6475.1	6638.4	6905.0	7175.0	7401.6	7601.5
20°	7048.3	6938.3	6851.7	6645.1	6588.4	6658.4	6865.0	7121.6	7364.9	7551.5	7778.1
22.5°	7528.2	7538.2	7414.9	7075.0	6951.7	6981.7	7158.3	7368.2	7634.8	7768.1	8028.1
25°	8224.7	8154.7	8021.4	7751.5	7474.9	7498.2	7628.2	7818.1	7891.5	7984.8	8268.0
27.5°	8861.2	8881.2	8617.9	8364.7	8021.4	7954.8	8188.0	8221.4	8098.1	8274.7	8371.3
30°	9507.7	9491.1	9317.8	9021.2	8684.6	8697.9	8801.2	8637.9	8468.0	8564.6	8631.3
32.5°	10177.6	9987.6	9981.0	9714.3	9457.7	9334.4	9207.8	9287.8	9024.5	9044.5	8981.2
35°	10714.1	10740.8	10587.5	10397.5	10270.9	10054.3	9707.7	9851.0	9801.0	9777.7	9504.4
37.5°	11104.0	11000.7	11077.4	11014.0	10894.1	10624.1	10264.2	10400.9	10424.2	10537.5	10220.9
40°	11423.9	11380.6	11583.9	11617.2	11533.9	10950.7	10304.2	10710.8	11060.7	11307.3	10930.7
42.5°	11577.2	11670.5	11883.8	12140.4	11953.8	11330.6	10510.8	10947.4	11727.2	12117.1	11603.9
45°	11783.9	11663.9	11980.5	12450.4	12453.7	11650.6	10710.8	11267.3	12247.1	12813.6	12063.8
47.5°	11573.9	11633.9	11960.5	12557.0	12710.3	11987.1	11250.6	11720.5	12820.3	13323.5	12490.4
50°	11104.0	11224.0	11820.5	12440.4	12903.6	12343.7	11870.5	12210.4	13350.1	13733.4	12560.3
52.5°	10614.1	10680.8	11613.9	12530.3	12990.2	12803.6	12700.3	12886.9	13996.7	14196.6	12647.0
55°	9281.1	9597.7	10930.7	12490.4	13413.5	13633.4	13553.4	13826.7	14729.8	14929.8	13120.2
56°	8664.6	8831.2	10520.8	12303.7	13496.8	13936.7	13896.7	14020.0	15119.7	15329.7	13193.5
57.5°	7524.9	7538.2	8971.2	11477.3	13183.5	14026.7	13986.7	14083.3	15043.1	14899.8	12550.3
60°	4708.9	4915.5	6105.2	8827.9	11210.7	13013.6	13240.2	12463.7	12683.6	12380.4	9764.3
62.5°	2439.4	2409.4	3199.2	5162.1	7441.6	9317.8	9527.7	9491.1	9151.1	8707.9	6378.5
65°	1216.4	1223.0	1672.9	2556.1	3812.4	4878.8	5465.4	5528.7	4625.6	4255.7	3025.9
67.5°	883.1	916.4	1203.0	1563.0	1796.2	2009.5	2462.7	2416.1	1829.6	1739.6	1612.9
70°	686.5	716.5	976.4	1193.0	1083.1	1083.1	1179.7	1219.7	1303.0	1339.7	1383.0
72.5°	499.9	523.2	746.5	823.1	709.8	763.2	883.1	976.4	1063.1	1076.4	1126.4
75°	343.3	363.2	489.9	453.2	426.6	526.5	646.5	733.2	796.5	829.8	859.8
77.5°	223.3	229.9	279.9	236.6	273.3	339.9	419.9	493.2	556.5	583.2	589.9
80°	100.0	110.0	120.0	150.0	190.0	243.3	299.9	359.9	399.9	409.9	429.9
82.5°	56.7	56.7	73.3	106.6	140.0	176.6	216.6	259.9	306.6	316.6	313.3
85°	30.0	30.0	43.3	63.3	86.6	103.3	100.0	103.3	110.0	126.6	123.3
87.5°	10.0	10.0	13.3	13.3	16.7	20.0	16.7	23.3	30.0	30.0	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°	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0	6845.0
2.5°	6835.0	6865.0	6825.0	6911.7	6911.7	6895.0	6811.7	6838.4	6858.4	6858.4	6875.0
5°	6965.0	6955.0	6981.7	6878.4	6815.0	6791.7	6655.1	6588.4	6531.8	6528.4	6478.5
7.5°	7038.3	7011.7	7001.7	6925.0	6645.1	6475.1	6181.9	6011.9	5975.2	5845.3	5895.3
10°	7155.0	7204.9	7155.0	6738.4	6348.5	5958.6	5672.0	5408.7	5305.4	5222.1	5172.1
12.5°	7394.9	7371.6	7081.6	6518.4	5971.9	5508.7	5082.1	4805.5	4702.2	4628.9	4622.2
15°	7598.2	7481.5	7038.3	6171.9	5385.4	4892.2	4542.2	4345.6	4299.0	4305.6	4335.6
17.5°	7668.2	7588.2	6811.7	5811.9	4948.8	4369.0	4205.7	4175.7	4219.0	4269.0	4282.3
20°	7778.1	7651.5	6718.4	5322.1	4408.9	4042.4	4032.4	4139.0	4219.0	4292.3	4302.3
22.5°	8008.1	7688.2	6415.1	4858.8	4039.0	3945.7	4042.4	4132.3	4255.7	4315.6	4262.3
25°	8074.7	7608.2	5988.6	4302.3	3805.8	3885.7	3989.0	4112.4	4199.0	4232.3	4255.7
27.5°	8131.4	7484.9	5412.0	3932.4	3732.4	3882.4	3989.0	4092.4	4139.0	4169.0	4195.7
30°	8291.4	7448.2	4912.2	3685.8	3685.8	3815.8	3952.4	3979.1	4042.4	4079.0	4125.7
32.5°	8371.3	7194.9	4399.0	3529.2	3639.1	3849.1	3859.1	3909.1	3912.4	3942.4	3892.4
35°	8581.3	7015.0	3922.4	3415.9	3659.1	3815.8	3865.7	3835.8	3672.5	3592.5	3609.1
37.5°	8734.6	6925.0	3579.1	3402.5	3662.5	3852.4	3879.1	3652.5	3482.5	3349.2	3382.5
40°	9147.8	6701.7	3319.2	3379.2	3692.5	3892.4	3819.1	3572.5	3265.9	3129.3	3105.9
42.5°	9464.4	6541.8	3155.9	3352.5	3715.8	3949.1	3789.1	3412.5	3099.3	2972.6	3005.9
45°	9831.0	6505.1	3069.3	3359.2	3755.8	3979.1	3752.4	3289.2	2956.0	2906.0	2896.0
47.5°	9961.0	6241.8	2976.0	3302.5	3745.8	3969.1	3629.1	3195.9	2902.6	2909.3	2936.0
50°	9744.3	5971.9	2906.0	3185.9	3679.1	3879.1	3435.8	3072.6	2872.6	2956.0	3002.6
52.5°	9467.7	5695.3	2762.7	3029.3	3542.5	3739.1	3345.9	3065.9	2842.7	2816.0	2826.0
55°	9551.1	5468.7	2562.7	2816.0	3322.5	3479.2	3245.9	3002.6	2769.3	2669.4	2702.7
56°	9281.1	5235.4	2432.8	2682.7	3172.6	3312.5	3195.9	2946.0	2709.4	2642.7	2642.7
57.5°	8518.0	4452.3	2262.8	2469.4	2856.0	3022.6	3099.3	2912.6	2642.7	2526.1	2529.4
60°	6281.8	3165.9	2029.5	2176.1	2366.1	2499.4	2856.0	2819.3	2476.1	2396.1	2366.1
62.5°	3872.4	2312.8	1862.9	1919.5	2016.2	2126.2	2492.7	2552.7	2299.5	2212.8	2192.8
65°	2169.5	1769.6	1736.3	1759.6	1806.2	1862.9	2069.5	2202.8	2029.5	1896.2	1889.5
67.5°	1586.3	1583.0	1609.6	1629.6	1649.6	1649.6	1699.6	1752.9	1729.6	1622.9	1612.9
70°	1409.7	1419.7	1439.7	1443.0	1449.7	1426.3	1386.3	1369.7	1396.3	1329.7	1316.4
72.5°	1163.1	1196.4	1219.7	1223.0	1186.4	1156.4	1103.1	1046.4	1026.4	1013.1	1009.8
75°	893.1	916.4	926.4	923.1	909.8	866.5	803.1	746.5	709.8	669.8	689.8
77.5°	603.2	636.5	653.2	653.2	633.2	566.5	536.5	493.2	456.6	413.2	419.9
80°	423.2	446.6	473.2	469.9	436.6	403.2	359.9	319.9	289.9	256.6	253.3
82.5°	316.6	329.9	343.3	336.6	313.3	279.9	249.9	213.3	180.0	156.6	156.6
85°	113.3	123.3	150.0	156.6	170.0	170.0	143.3	120.0	96.6	80.0	80.0
87.5°	33.3	33.3	36.7	36.7	33.3	36.7	30.0	33.3	36.7	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)