

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: P533830

Luminaire Tested: **GALN-SA9B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40307 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

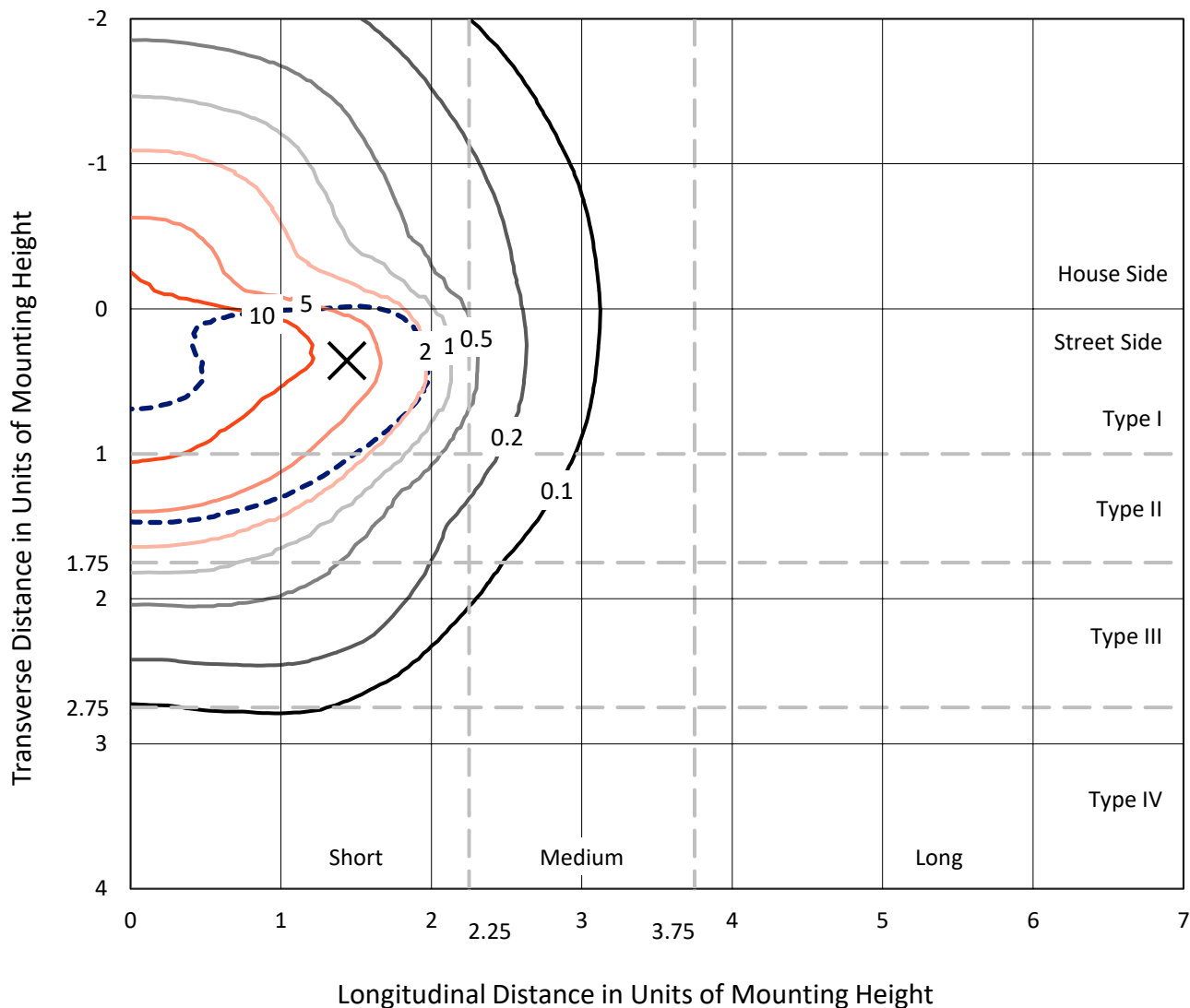
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

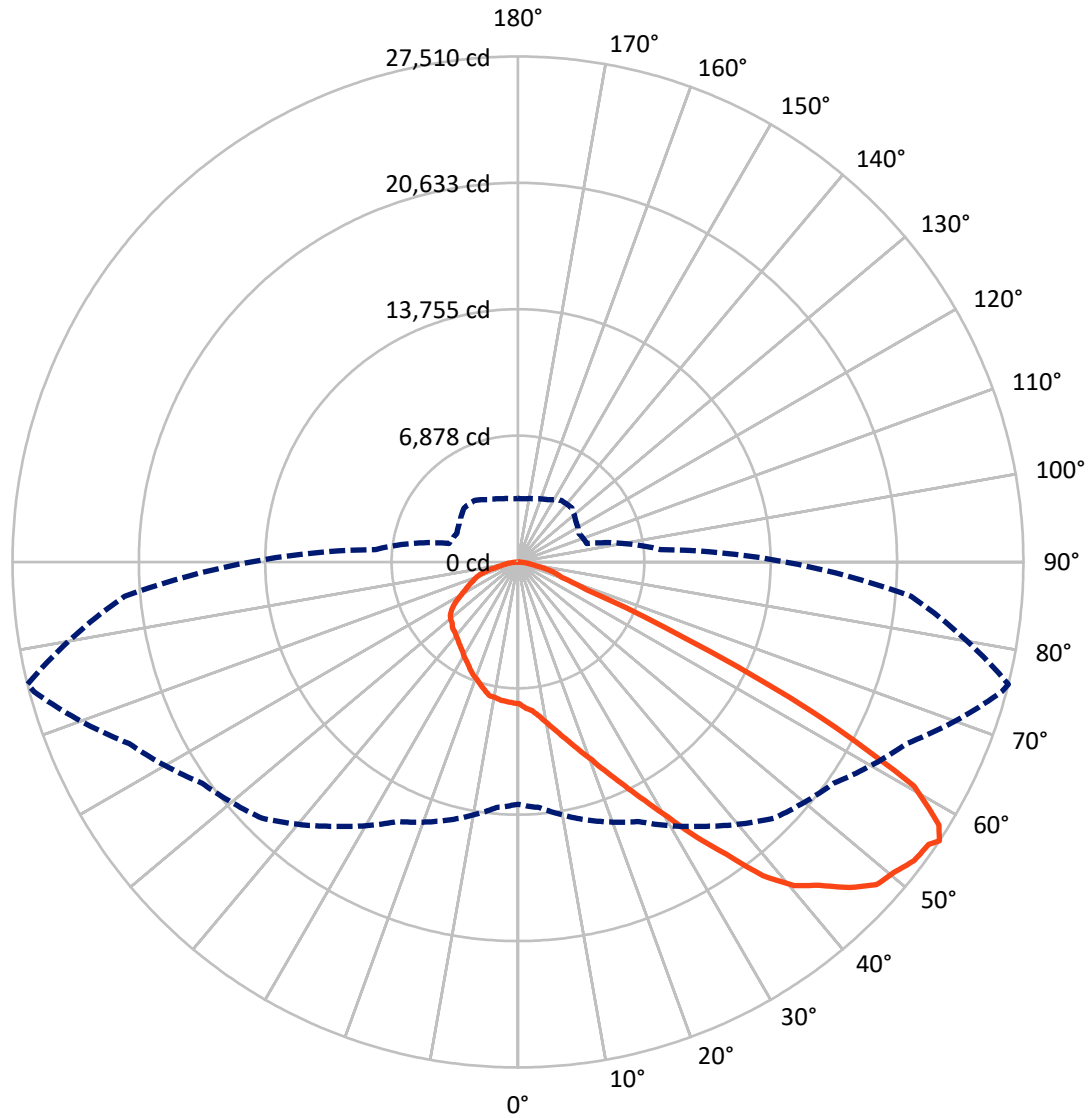
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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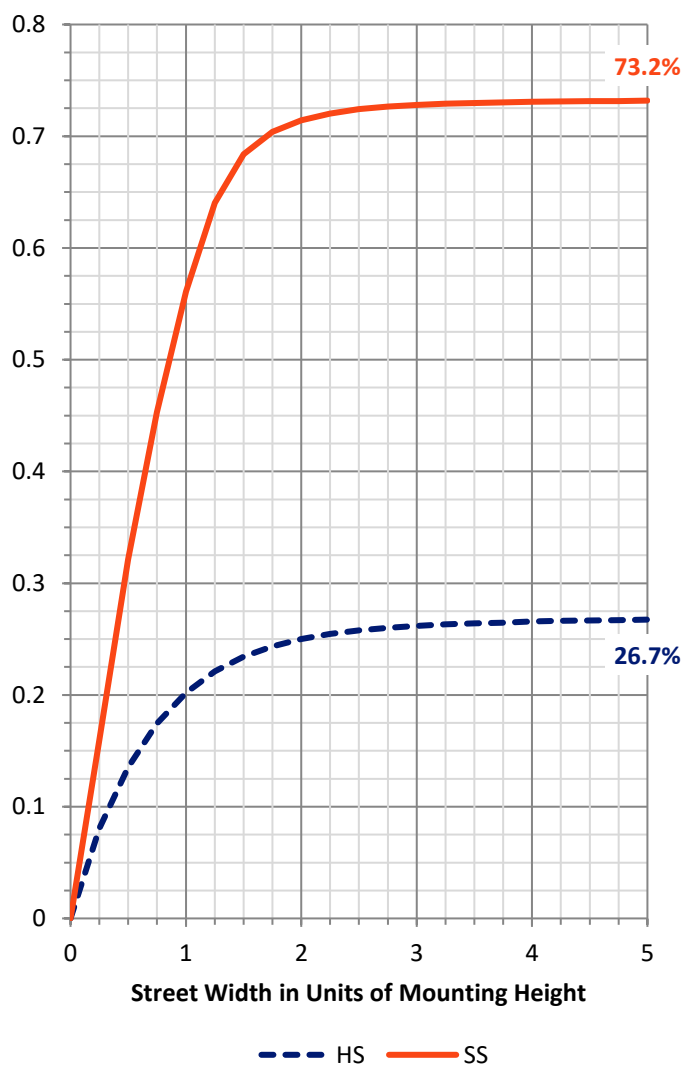
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10837.4	0.0	10837.4
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	29469.7	0.0	29469.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	40307.0	0.0	40307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.8	1.9
10°-20°	2402.5	6.0
20°-30°	4201.7	10.4
30°-40°	6578.7	16.3
40°-50°	9570.1	23.7
50°-60°	10518.2	26.1
60°-70°	4694.9	11.6
70°-80°	1356.1	3.4
80°-90°	220.0	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°	40307.0	100.0
0°-180°	40307.0	100.0

**Coefficient of Utilization**



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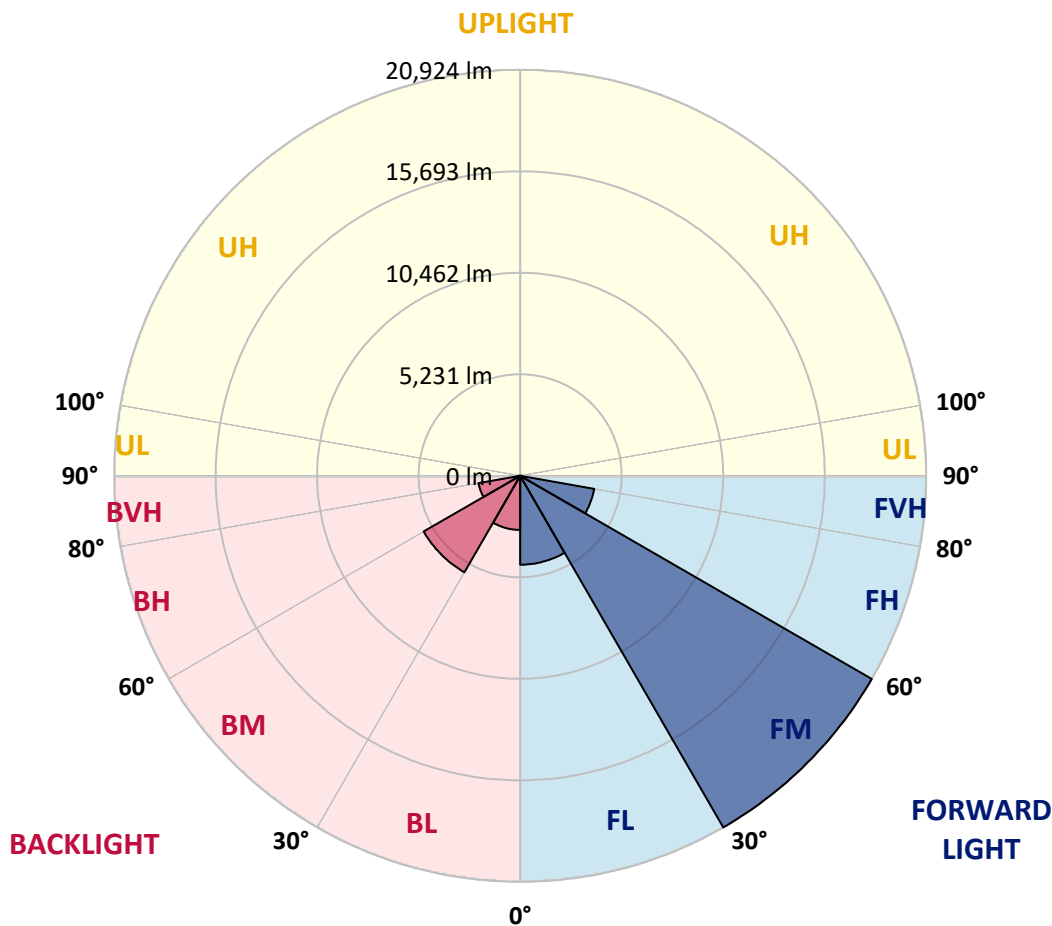
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4580.4	11.4			
FM (30°-60°)	20924.1	51.9			
FH (60°-80°)	3870.4	9.6			G2/5000
FVH (80°-90°)	94.7	0.2			G1/100
BL (0°-30°)	2788.7	6.9	B4/5000		
BM (30°-60°)	5742.9	14.2	B4/8500		
BH (60°-80°)	2180.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	125.3	0.3			G2/225
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°	55°	65°	75°	76°	85°
0°	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2
2.5°	8496.0	8360.1	8349.7	8313.1	8334.0	8240.0	8140.7	8010.1	7874.2	7957.8	7759.3
5°	9091.6	8908.8	8981.9	8856.5	8872.2	8746.8	8543.0	8391.5	8224.3	8125.0	7983.9
7.5°	9300.7	9316.3	9368.6	9347.7	9243.2	9243.2	9107.3	8840.8	8548.2	8490.8	8255.6
10°	9582.8	9588.0	9530.6	9546.2	9692.5	9624.6	9504.4	9389.5	9013.3	8945.3	8527.3
12.5°	9682.1	9588.0	9682.1	9765.7	9938.1	10032.2	10006.0	9922.4	9520.1	9473.1	8861.7
15°	9697.8	9640.3	9718.7	9906.8	10058.3	10455.4	10654.0	10596.5	10063.5	10068.7	9238.0
17.5°	9624.6	9703.0	9734.3	9896.3	10246.4	10617.4	11192.1	11270.5	10831.6	10763.7	9713.4
20°	9723.9	9666.4	9708.2	9854.5	10319.5	10899.5	11651.9	12169.2	11552.7	11505.6	10204.6
22.5°	10105.3	10026.9	10016.5	10110.5	10444.9	11045.8	12137.9	13067.9	12430.5	12456.6	10815.9
25°	10403.1	10444.9	10408.4	10403.1	10612.1	11265.3	12780.6	14139.1	13621.8	13470.3	11537.0
27.5°	10915.2	11014.5	10941.3	11040.6	10993.6	11594.5	13240.4	15325.2	14907.2	14703.4	12190.1
30°	11625.8	11678.1	11610.1	11610.1	11469.1	12054.3	13658.4	16563.5	16391.1	16114.2	12958.2
32.5°	12561.1	12639.5	12503.6	12425.3	12404.4	12738.8	14410.8	17786.2	18078.8	17843.7	13977.1
35°	13799.5	13752.4	13590.4	13517.3	13235.1	13789.0	15529.0	19191.7	19959.8	19541.8	15210.2
37.5°	14891.5	14818.3	14807.9	14400.3	14468.3	14922.8	16479.9	20257.7	21783.4	21663.2	16511.3
40°	15910.4	15978.3	16088.0	15858.1	15753.6	16255.2	17587.6	21072.8	23199.4	23152.4	17514.5
42.5°	17002.4	16939.7	17133.1	16939.7	16783.0	17493.6	18789.4	21637.1	24443.0	24056.3	18564.7
45°	18585.6	18387.1	18455.0	18470.7	18355.7	18617.0	19285.8	22044.6	25315.5	25273.7	19332.8
47.5°	19907.6	19912.8	19797.9	19709.0	19358.9	19620.2	19839.7	22300.7	26318.8	26250.8	19630.6
50°	20398.7	20330.8	20665.2	20858.5	20879.4	20346.5	20273.3	22441.7	26846.5	26548.7	19928.5
52.5°	18632.7	18695.4	19223.1	20372.6	21036.2	21093.7	20780.2	22734.3	27060.7	26998.0	20168.8
55°	14996.0	15299.1	16166.4	17493.6	19066.3	20795.8	21328.8	23037.4	27175.7	27123.4	21234.7
56°	13182.9	13418.0	14546.6	15586.4	17561.5	19714.2	20983.9	23361.4	27264.5	27510.1	21485.6
57.5°	10612.1	10883.9	11693.7	12874.6	15205.0	17655.6	20033.0	22964.3	26919.6	27013.7	21668.4
60°	6635.9	6662.0	7633.9	8412.4	10053.1	12446.2	15288.6	19980.7	24913.2	24777.4	19463.4
62.5°	4352.5	4357.7	5240.8	5878.2	6625.4	7174.0	8997.6	13250.8	18381.9	18141.5	13856.9
65°	3056.7	3124.6	3809.1	4660.8	4963.8	4676.5	4619.0	6985.9	10267.3	9922.4	7445.7
67.5°	2236.3	2241.6	2847.7	3762.1	4201.0	3558.3	2889.5	3412.0	4065.1	4054.7	3448.6
70°	1478.7	1541.4	2006.4	2811.1	3312.7	2858.1	2361.7	2440.1	2586.4	2586.4	2565.5
72.5°	862.1	919.6	1227.9	1781.8	1860.1	1787.0	1870.6	2090.0	2184.1	2178.9	2152.7
75°	491.2	517.3	585.2	742.0	924.8	1092.0	1374.2	1583.2	1677.3	1734.7	1666.8
77.5°	287.4	303.1	344.9	423.2	480.7	590.4	747.2	893.5	1018.9	1003.2	1013.7
80°	151.5	151.5	193.3	250.8	334.4	418.0	496.4	580.0	647.9	663.6	679.3
82.5°	88.8	94.1	125.4	182.9	240.4	297.8	381.4	438.9	501.6	506.8	517.3
85°	47.0	52.3	78.4	120.2	162.0	182.9	188.1	177.7	193.3	182.9	209.0
87.5°	15.7	15.7	26.1	20.9	20.9	26.1	31.4	31.4	41.8	41.8	41.8
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°	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2	7712.2
2.5°	7754.0	7754.0	7665.2	7498.0	7471.9	7403.9	7341.2	7336.0	7289.0	7247.2	7226.3
5°	7900.3	7738.4	7607.7	7456.2	7278.5	7194.9	7100.9	6996.4	6954.6	6996.4	6991.2
7.5°	8067.5	7931.7	7539.8	7257.6	7053.9	6970.3	6865.8	6756.0	6766.5	6766.5	6693.3
10°	8229.5	8046.6	7419.6	7059.1	6761.3	6698.6	6641.1	6682.9	6735.1	6745.6	6698.6
12.5°	8501.2	8088.4	7362.1	6860.5	6672.4	6536.6	6573.2	6688.1	6797.8	6766.5	6803.1
15°	8705.0	8125.0	7100.9	6656.8	6421.6	6484.3	6615.0	6693.3	6876.2	6855.3	6891.9
17.5°	8903.5	8145.9	6844.9	6385.1	6285.8	6458.2	6557.5	6782.2	6839.6	6965.0	7012.1
20°	9311.1	8187.7	6583.6	6217.9	6186.5	6385.1	6557.5	6662.0	6787.4	6897.1	6897.1
22.5°	9520.1	8166.8	6411.2	5998.4	6097.7	6223.1	6379.8	6557.5	6557.5	6662.0	6667.2
25°	9781.4	8083.2	6139.5	5893.9	5967.0	6087.2	6264.9	6202.2	6270.1	6270.1	6353.7
27.5°	10079.2	7905.6	5904.3	5705.8	5852.1	5982.7	6008.8	5967.0	5888.7	5878.2	5846.9
30°	10319.5	7686.1	5731.9	5643.1	5763.3	5836.4	5752.8	5664.0	5528.1	5517.7	5444.5
32.5°	10648.7	7414.4	5517.7	5486.3	5622.2	5627.4	5601.3	5465.4	5266.9	5183.3	5099.7
35°	11202.6	7257.6	5355.7	5402.7	5444.5	5428.9	5381.8	5235.5	5037.0	5000.4	4969.1
37.5°	11610.1	7142.7	5188.5	5246.0	5282.6	5303.5	5162.4	5000.4	5005.6	4932.5	4911.6
40°	12069.9	7069.5	5052.7	5078.8	5084.0	5151.9	4979.5	4901.1	4937.7	4890.7	4922.0
42.5°	12660.4	7090.4	4911.6	4890.7	4990.0	4963.8	4880.2	4775.7	4796.6	4655.6	4676.5
45°	12973.9	7231.5	4828.0	4733.9	4843.7	4838.4	4728.7	4629.4	4504.0	4232.3	4242.8
47.5°	13182.9	7268.1	4629.4	4566.7	4681.7	4749.6	4624.2	4394.3	4216.6	4023.3	3976.3
50°	13397.1	7336.0	4535.4	4404.7	4451.8	4613.8	4457.0	4237.5	4065.1	3892.7	3918.8
52.5°	13585.2	7466.6	4352.5	4159.2	4242.8	4420.4	4336.8	4070.3	3882.2	3741.2	3699.4
55°	14421.2	7759.3	4044.2	3793.4	3992.0	4216.6	4169.6	3845.7	3641.9	3568.7	3558.3
56°	14551.9	7769.7	3882.2	3668.0	3850.9	4148.7	4091.2	3746.4	3563.5	3448.6	3453.8
57.5°	14572.8	7644.3	3652.3	3553.1	3709.8	4049.4	3976.3	3668.0	3417.2	3312.7	3281.4
60°	12822.4	5967.0	3365.0	3302.3	3485.1	3746.4	3720.3	3453.8	3171.6	3051.5	3108.9
62.5°	8741.6	4373.4	3140.3	3129.8	3223.9	3479.9	3412.0	3171.6	2936.5	2858.1	2821.5
65°	5089.2	3317.9	2920.8	2879.0	2957.4	3093.3	3140.3	2889.5	2643.9	2591.6	2576.0
67.5°	3004.4	2743.2	2638.7	2570.7	2544.6	2628.2	2664.8	2518.5	2272.9	2199.8	2262.5
70°	2513.3	2440.1	2445.3	2330.4	2267.7	2210.2	2178.9	2048.2	1844.5	1750.4	1724.3
72.5°	2168.4	2137.1	2116.2	2011.7	1954.2	1823.6	1687.7	1557.1	1405.5	1327.2	1332.4
75°	1656.4	1645.9	1656.4	1604.1	1504.8	1400.3	1274.9	1107.7	992.8	893.5	914.4
77.5°	987.5	1018.9	1034.6	1013.7	971.9	877.8	799.4	689.7	580.0	501.6	491.2
80°	679.3	705.4	731.5	705.4	663.6	595.7	512.1	428.5	350.1	308.3	297.8
82.5°	517.3	543.4	559.1	533.0	480.7	407.6	350.1	292.6	229.9	188.1	177.7
85°	188.1	214.2	209.0	250.8	271.7	261.3	224.7	172.4	130.6	94.1	88.8
87.5°	52.3	47.0	52.3	52.3	52.3	47.0	41.8	41.8	41.8	26.1	20.9
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)