

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: P533353

Luminaire Tested: **GALN-SA8D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

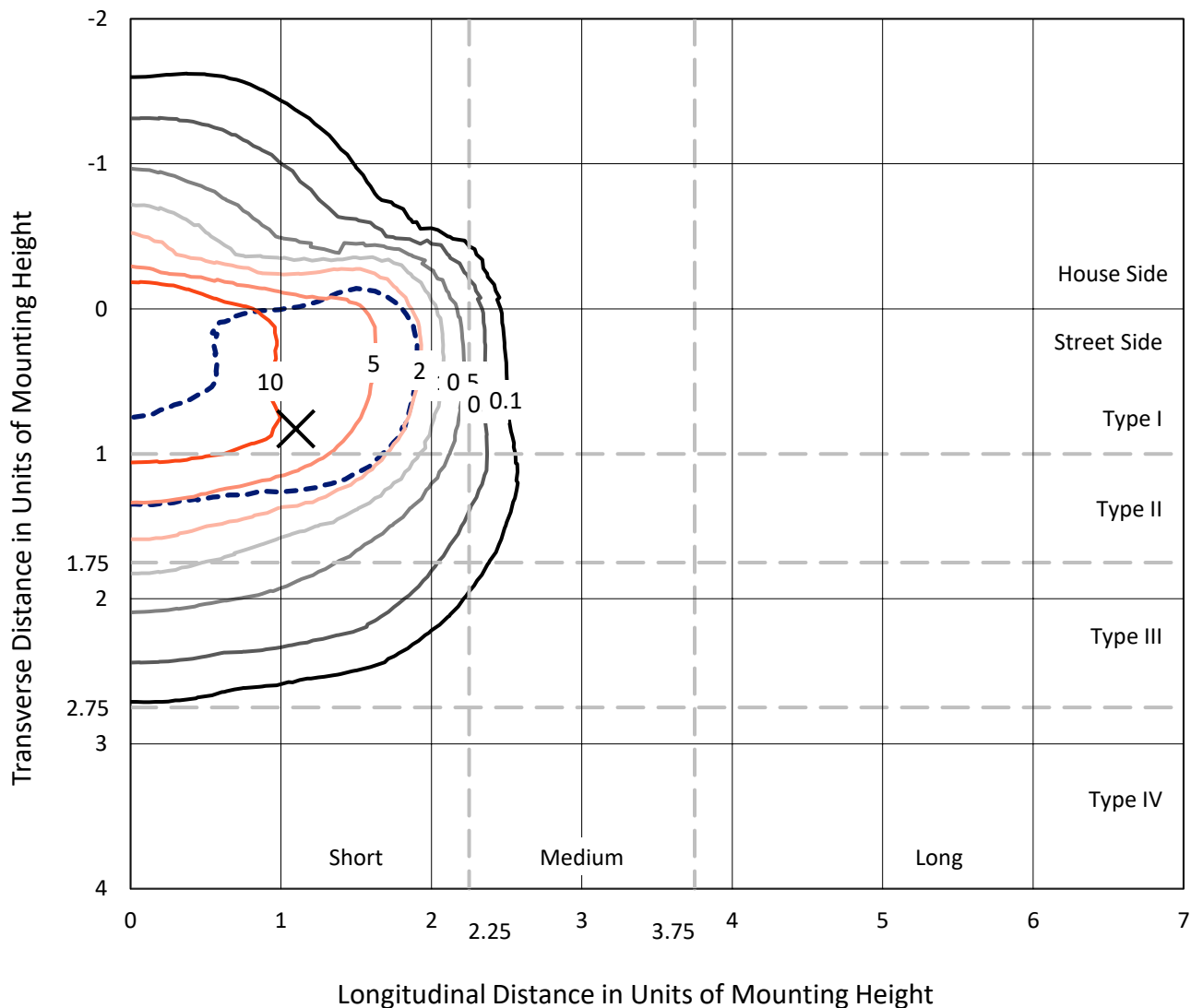
Lumens per Lamp: N/A  
Luminaire Lumens: 33966 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

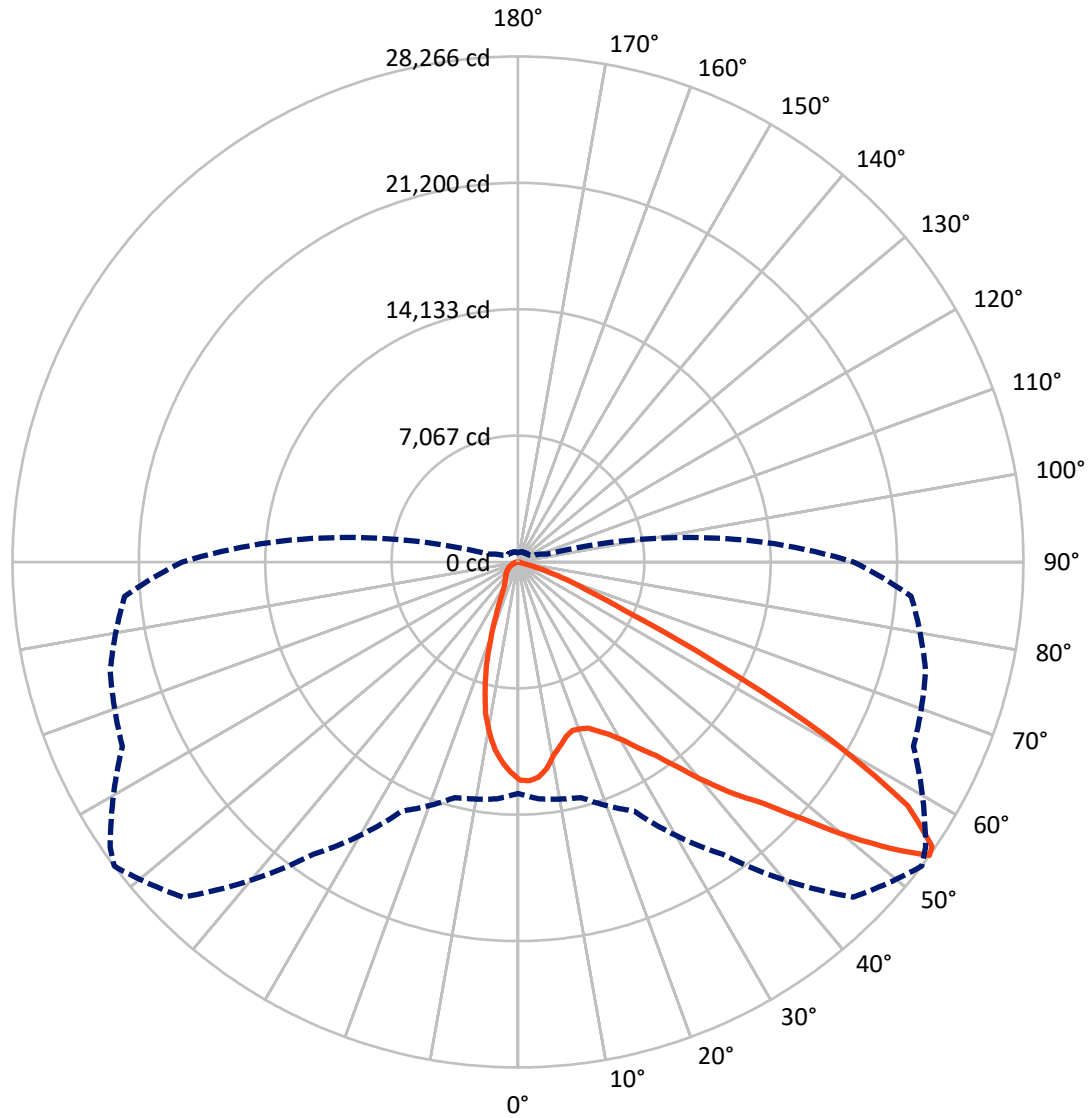
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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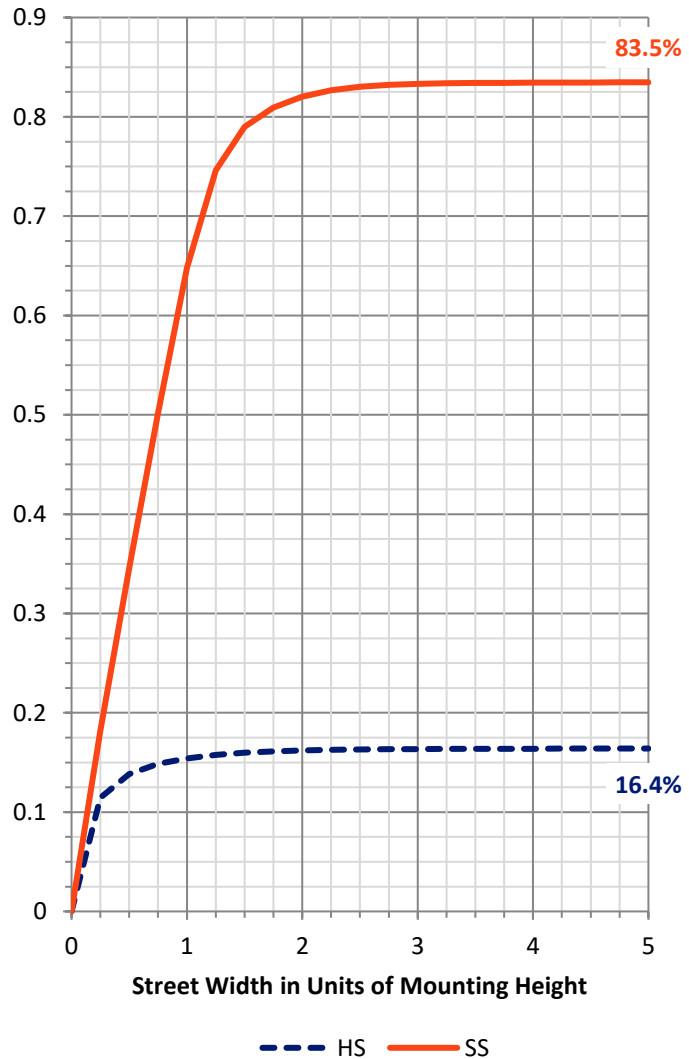
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5619.8	0.0	5619.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28346.2	0.0	28346.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	33966.0	0.0	33966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.7	3.1
10°-20°	2399.8	7.1
20°-30°	3410.7	10.0
30°-40°	5263.6	15.5
40°-50°	8252.8	24.3
50°-60°	9586.7	28.2
60°-70°	3622.4	10.7
70°-80°	344.5	1.0
80°-90°	38.8	0.1
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°	33966.0	100.0
0°-180°	33966.0	100.0

**Coefficient of Utilization**

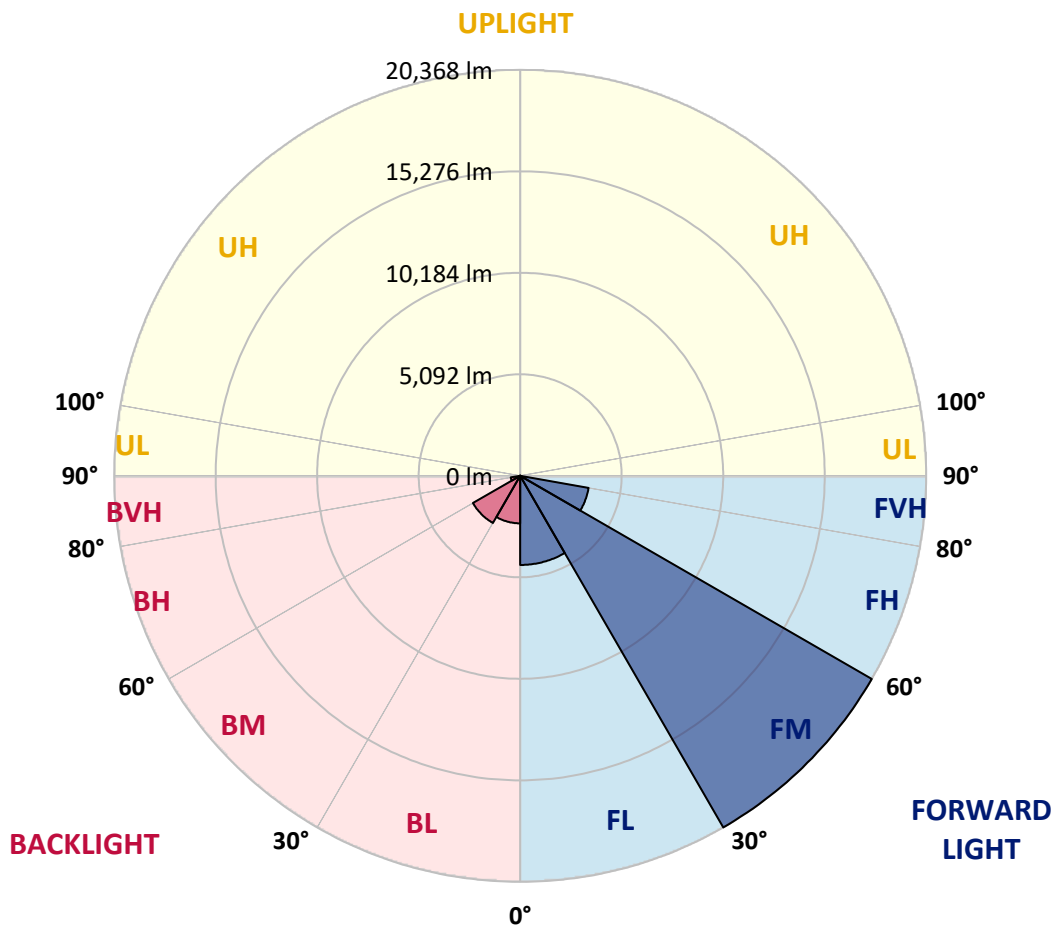


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4472.4	13.2			
FM (30°-60°)	20368.3	60.0			
FH (60°-80°)	3485.4	10.3			G2/5000
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	2384.8	7.0	B3/2500		
BM (30°-60°)	2734.7	8.1	B3/5000		
BH (60°-80°)	481.5	1.4	B1/500		G1/500
BVH (80°-90°)	18.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0
2.5°	12136.7	12029.2	12136.7	12149.4	12225.3	12294.9	12250.6	12351.9	12294.9	12231.7	12212.7
5°	11155.9	11301.5	11307.8	11535.6	11485.0	11902.6	12086.1	12035.5	12345.6	12326.6	12282.3
7.5°	10276.4	10219.4	10295.3	10561.1	10896.5	11377.4	11643.2	11636.8	12079.8	12396.2	12364.5
10°	9460.1	9453.7	9611.9	9820.8	10105.5	10611.7	10978.7	11162.3	11852.0	12332.9	12402.5
12.5°	8909.6	8884.2	9055.1	9225.9	9675.2	10067.5	10535.8	10624.4	11415.4	12111.4	12225.3
15°	8548.9	8605.8	8618.5	8947.5	9232.3	9751.2	10118.2	10301.7	11212.9	11934.2	12370.9
17.5°	8485.6	8561.5	8567.9	8839.9	9143.7	9580.3	9903.0	10149.8	11042.0	12022.8	12377.2
20°	8612.1	8567.9	8605.8	8776.7	9074.1	9491.7	9960.0	10042.2	10985.1	12067.1	12446.8
22.5°	8972.8	8960.2	8865.3	9004.5	9213.3	9649.9	10092.9	10219.4	11149.6	12294.9	12503.7
25°	9371.5	9441.1	9352.5	9333.5	9479.1	9909.3	10497.8	10662.4	11700.1	12706.2	12680.9
27.5°	10118.2	10048.6	10048.6	9960.0	9922.0	10130.8	10934.5	11206.5	12313.9	13237.8	12883.4
30°	10833.2	10909.1	10852.2	10883.8	10630.7	10611.7	11554.6	11890.0	13402.3	14047.7	13313.7
32.5°	11965.9	11864.6	11959.6	11877.3	11541.9	11200.2	12396.2	12744.2	14718.5	14977.9	13959.1
35°	12908.7	12864.4	13269.4	13256.8	12712.6	12377.2	13288.4	13807.3	15636.0	16091.6	14718.5
37.5°	14250.2	14168.0	14629.9	14851.4	14364.1	13864.2	14566.6	15167.8	16490.3	16983.8	15496.8
40°	15629.7	15838.5	16458.6	16825.6	16306.8	15642.3	16129.6	16313.1	17059.8	17566.0	16028.3
42.5°	17376.2	17679.9	18312.7	18629.1	18584.8	17863.4	17717.9	17711.5	17471.1	17401.5	16420.7
45°	19053.0	18939.1	19913.6	20603.3	21160.2	20951.4	19249.2	19059.4	18122.8	17648.3	16521.9
47.5°	19787.1	19749.1	20413.5	21641.1	23539.4	23798.9	21476.6	20742.6	19223.9	18686.0	17072.4
50°	18837.9	19034.0	19692.1	21052.6	23963.4	25944.0	24210.2	23223.1	20508.4	19951.6	18376.0
52.5°	15737.3	15870.1	16496.6	18224.1	22520.7	27209.6	26829.9	26260.4	22868.7	21944.8	20647.6
54°	12940.4	13294.7	13636.4	15370.2	19951.6	26507.2	28266.3	27829.7	24406.4	23602.7	22077.7
55°	11269.8	11478.6	11725.4	13452.9	18173.5	25317.6	28101.8	28139.8	25437.8	24121.6	23039.6
57.5°	8232.5	8378.0	8124.9	8890.6	12478.4	20559.0	25703.6	26728.7	26829.9	24899.9	23628.0
60°	6289.8	6353.1	6068.4	6188.6	7757.9	14111.0	19882.0	21115.9	24203.9	21761.3	20014.9
62.5°	4878.7	4891.4	4885.1	5093.9	5347.0	8302.1	12434.1	13528.9	16686.4	15452.5	13592.1
65°	3594.2	3537.2	3638.5	4271.3	4562.3	5220.4	6549.3	7346.6	9067.7	7656.6	5473.6
67.5°	2328.6	2347.6	2448.9	3176.6	3910.6	4005.5	4030.8	3967.5	3973.9	2189.4	1373.1
70°	1398.4	1430.1	1398.4	1797.1	2796.9	2872.8	2626.0	2562.8	1999.6	518.9	512.6
72.5°	828.9	784.6	702.4	772.0	1164.3	1392.1	1252.9	1246.6	784.6	303.7	303.7
75°	348.0	316.4	259.4	234.1	310.1	297.4	297.4	265.8	208.8	202.5	189.8
77.5°	69.6	69.6	50.6	57.0	75.9	88.6	107.6	107.6	126.6	126.6	120.2
80°	0.0	6.3	19.0	38.0	57.0	82.3	94.9	94.9	107.6	107.6	88.6
82.5°	0.0	6.3	19.0	38.0	50.6	75.9	94.9	94.9	107.6	113.9	94.9
85°	0.0	6.3	19.0	31.6	50.6	63.3	63.3	57.0	44.3	38.0	25.3
87.5°	0.0	0.0	6.3	12.7	6.3	12.7	12.7	12.7	12.7	12.7	12.7
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°	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0	12200.0
2.5°	12257.0	12250.6	12098.8	11852.0	11795.0	11586.2	11560.9	11434.3	11504.0	11269.8	11244.5
5°	12155.7	12079.8	11896.3	11738.1	11276.2	10947.1	10687.7	10371.3	10187.8	10219.4	10099.2
7.5°	12301.3	12105.1	11782.4	11231.9	10668.7	10092.9	9782.8	9137.4	8903.2	8555.2	8504.6
10°	12149.4	12003.9	11504.0	10592.8	9814.4	8985.5	8257.8	7542.7	6998.6	6764.4	6713.8
12.5°	12136.7	11883.6	11048.4	10035.9	8909.6	7719.9	6663.2	5771.0	5233.1	4929.4	4859.8
15°	11940.6	11636.8	10535.8	9175.3	7618.7	6138.0	4986.3	4125.7	3714.4	3537.2	3587.9
17.5°	11959.6	11504.0	10023.2	8264.1	6346.8	4505.4	3404.4	2961.4	2853.8	2898.1	2898.1
20°	11940.6	11206.5	9403.1	7213.7	4859.8	3125.9	2499.5	2341.3	2410.9	2550.1	2518.5
22.5°	11839.3	11067.3	8833.6	6106.3	3575.2	2316.0	2005.9	2012.2	2119.8	2290.7	2328.6
25°	11915.3	10757.3	8112.3	4986.3	2607.1	1847.7	1740.1	1784.4	1898.3	2024.9	2050.2
27.5°	11858.3	10535.8	7359.2	3872.6	1904.7	1588.3	1582.0	1632.6	1683.2	1778.1	1778.1
30°	11921.6	10333.3	6618.9	2879.2	1569.3	1455.4	1430.1	1468.1	1518.7	1537.7	1531.3
32.5°	12155.7	10181.4	5764.6	2151.5	1385.8	1328.8	1328.8	1328.8	1322.5	1347.8	1354.2
35°	12668.3	10206.8	5011.6	1664.2	1265.6	1221.3	1202.3	1177.0	1164.3	1177.0	1183.3
37.5°	13225.1	10194.1	4233.3	1417.4	1177.0	1139.0	1094.7	1056.7	1050.4	1063.1	1044.1
40°	13471.9	10314.3	3511.9	1271.9	1094.7	1050.4	980.8	949.2	955.5	968.2	955.5
42.5°	13807.3	10352.3	3043.7	1158.0	1018.8	949.2	904.9	866.9	860.6	879.6	873.2
45°	13801.0	10137.1	2550.1	1094.7	949.2	873.2	816.3	784.6	784.6	797.3	803.6
47.5°	14205.9	10105.5	2189.4	1037.8	898.5	822.6	753.0	727.7	721.4	721.4	708.7
50°	15148.8	10548.5	1911.0	974.5	835.3	765.7	708.7	677.1	651.8	639.1	632.8
52.5°	16990.2	11927.9	1695.9	898.5	765.7	708.7	658.1	632.8	601.1	569.5	563.2
54°	18774.6	13351.7	1683.2	835.3	708.7	670.7	626.5	613.8	575.8	531.5	518.9
55°	19578.2	14180.6	1727.5	784.6	670.7	645.4	607.5	594.8	556.8	506.2	499.9
57.5°	20242.7	14503.3	1702.2	651.8	607.5	601.1	569.5	550.5	506.2	436.6	424.0
60°	16294.1	10966.1	1221.3	575.8	556.8	544.2	518.9	506.2	449.3	373.3	367.0
62.5°	10295.3	6308.8	778.3	506.2	487.2	468.3	436.6	424.0	373.3	297.4	278.4
65°	4385.2	2613.4	525.2	449.3	417.6	386.0	360.7	341.7	297.4	221.5	215.1
67.5°	1139.0	930.2	436.6	392.3	348.0	303.7	284.8	253.1	202.5	151.9	145.5
70°	512.6	468.3	367.0	329.0	278.4	234.1	208.8	177.2	132.9	101.2	94.9
72.5°	303.7	297.4	278.4	246.8	208.8	177.2	151.9	120.2	88.6	57.0	57.0
75°	189.8	183.5	189.8	170.9	145.5	132.9	113.9	82.3	50.6	25.3	25.3
77.5°	113.9	113.9	113.9	107.6	101.2	101.2	82.3	50.6	25.3	6.3	6.3
80°	88.6	88.6	94.9	88.6	88.6	88.6	69.6	38.0	12.7	0.0	0.0
82.5°	88.6	94.9	107.6	101.2	88.6	75.9	63.3	38.0	12.7	0.0	0.0
85°	25.3	19.0	31.6	44.3	63.3	57.0	44.3	31.6	12.7	0.0	0.0
87.5°	12.7	12.7	12.7	12.7	6.3	6.3	6.3	6.3	6.3	0.0	0.0
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)