

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: P530789

Luminaire Tested: **GALN-SA6A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16707 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

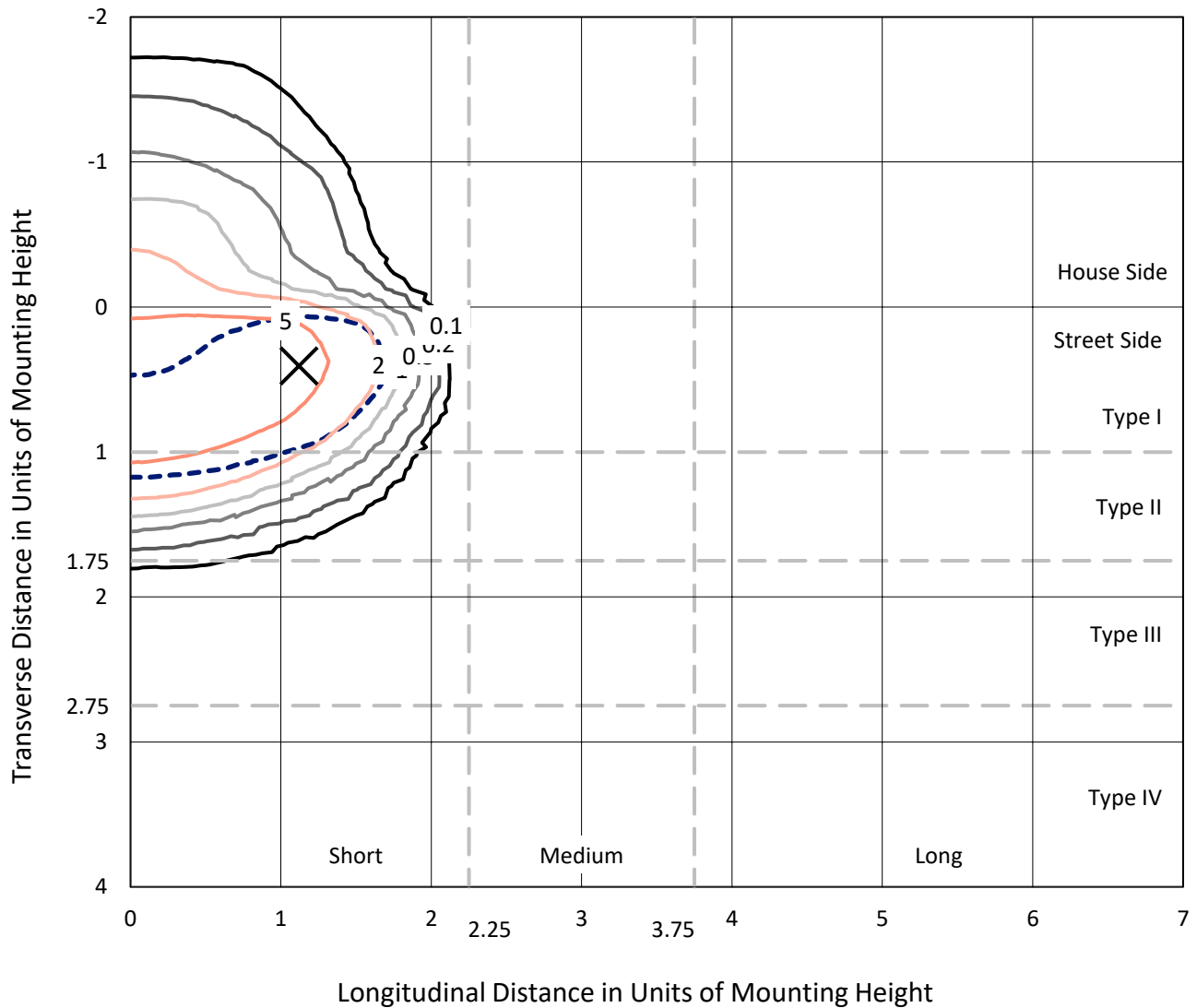
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

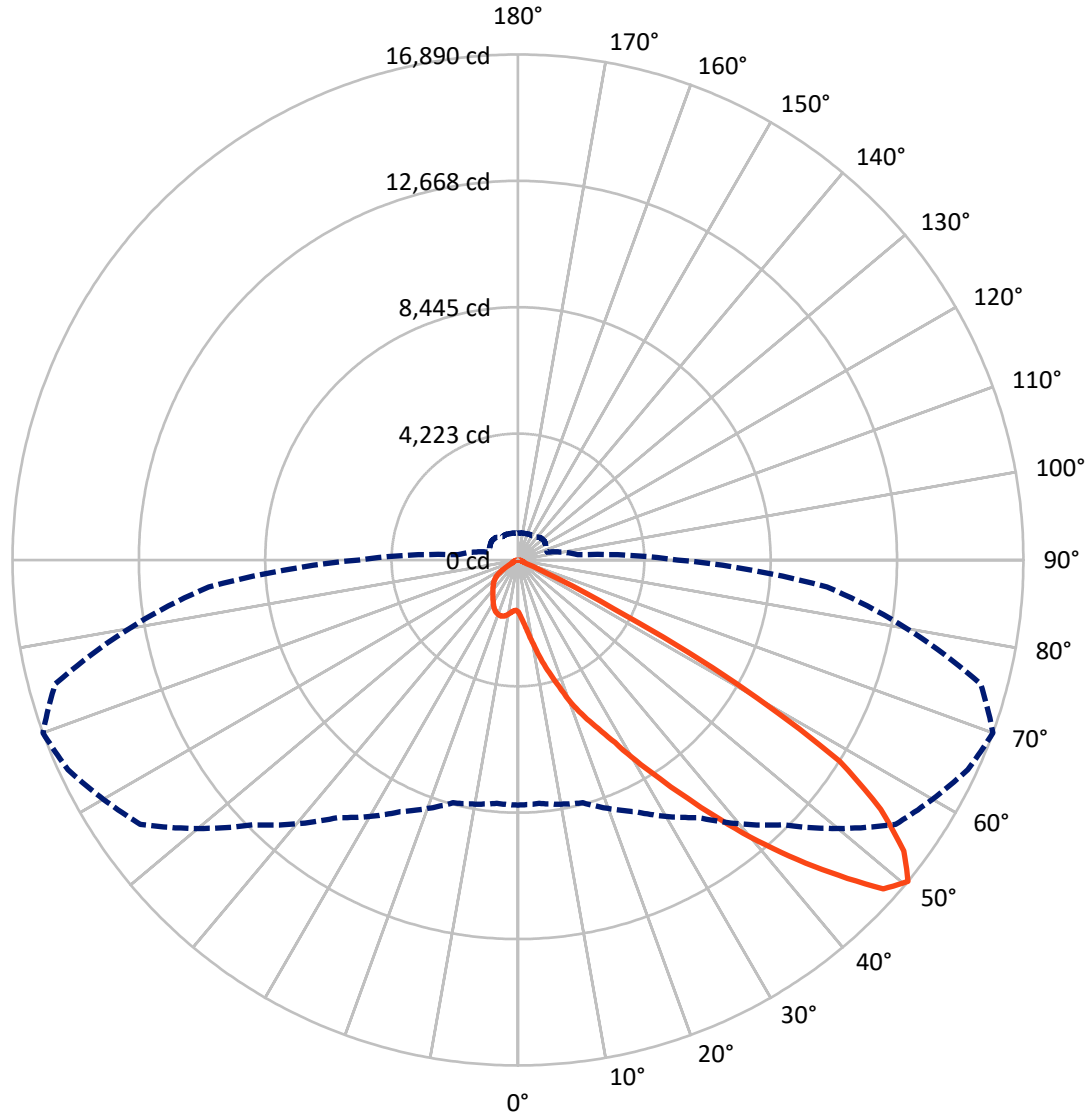
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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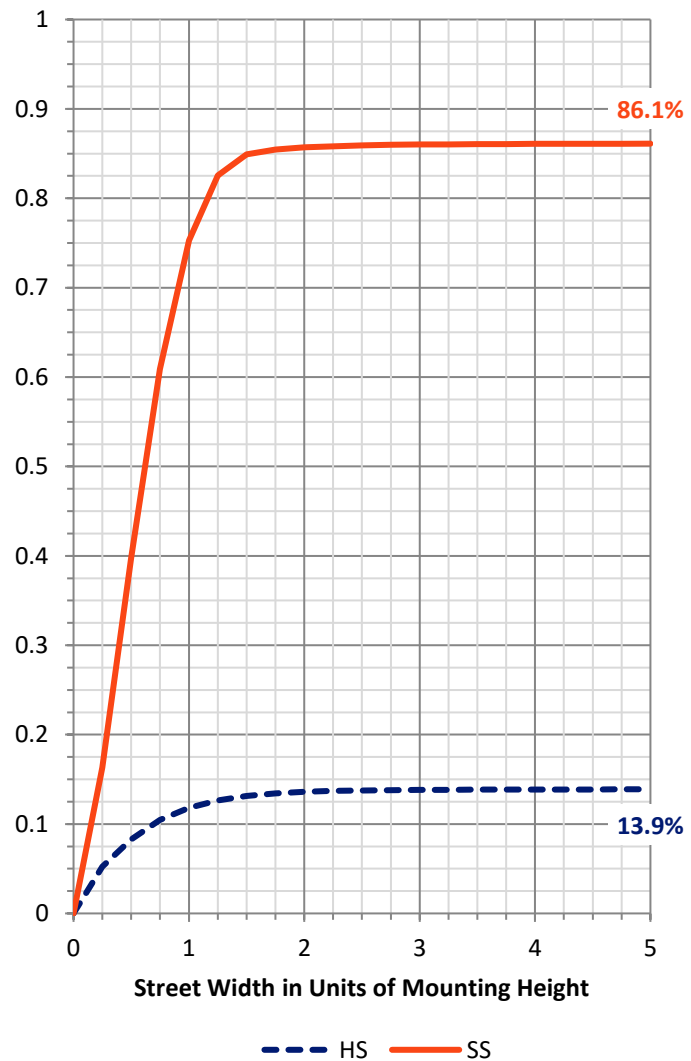
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2333.2	0.0	2333.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14373.7	0.0	14373.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16707.0	0.0	16707.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.0	1.3
10°-20°	973.4	5.8
20°-30°	2042.0	12.2
30°-40°	3519.8	21.1
40°-50°	5144.1	30.8
50°-60°	4006.4	24.0
60°-70°	678.8	4.1
70°-80°	93.3	0.6
80°-90°	24.1	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°	16707.0	100.0
0°-180°	16707.0	100.0

**Coefficient of Utilization**



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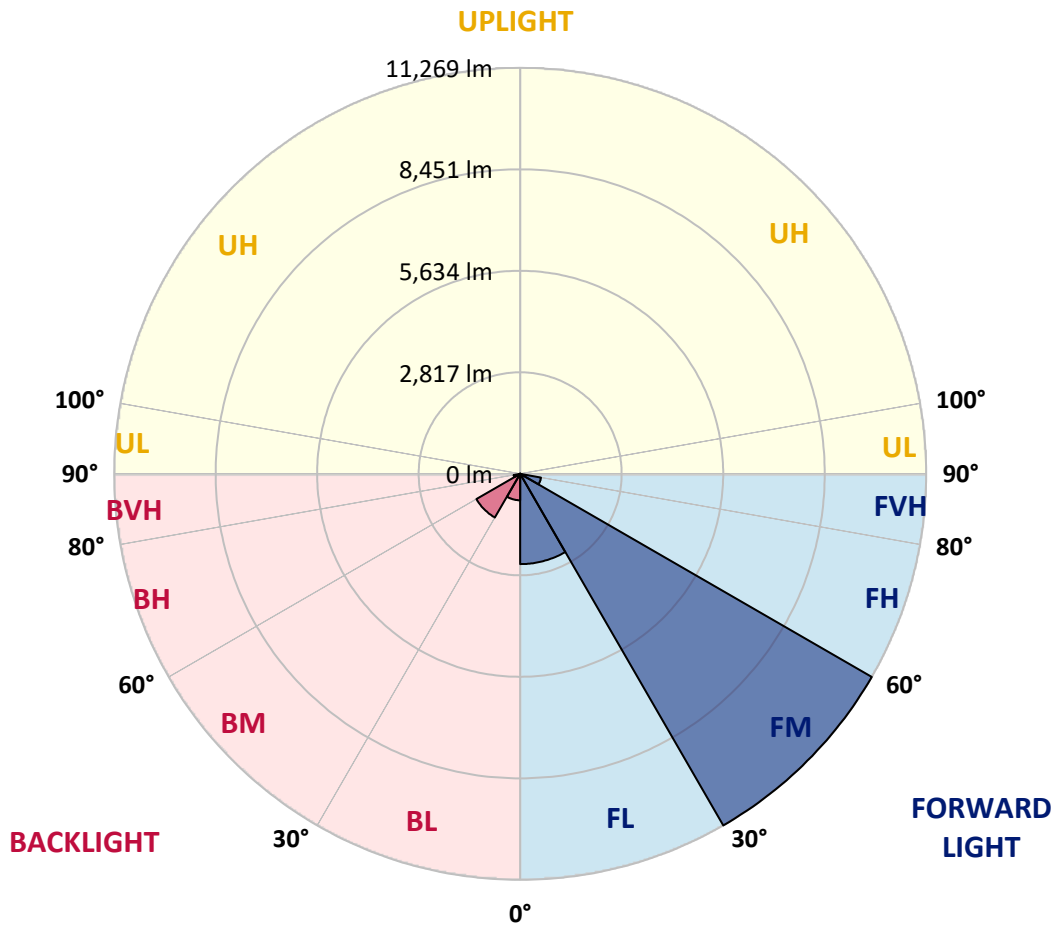
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2506.2	15.0			
FM (30°-60°)	11268.6	67.4			
FH (60°-80°)	587.8	3.5			G0/660
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	734.2	4.4	B2/1000		
BM (30°-60°)	1401.7	8.4	B2/2500		
BH (60°-80°)	184.3	1.1	B1/500		G1/500
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	2266.2	2249.7	2214.0	2148.0	2120.6	2054.6	2016.2	1942.0	1895.3	1843.1	1785.5
5°	3191.8	3106.7	3054.5	2980.3	2763.3	2628.7	2406.2	2216.7	2128.8	2032.7	1900.8
7.5°	4147.7	4092.8	4021.4	3862.1	3713.7	3433.6	3051.8	2634.2	2455.7	2290.9	2029.9
10°	4938.8	4785.0	4776.8	4658.7	4496.6	4161.5	3702.8	3183.6	2865.0	2623.2	2214.0
12.5°	5491.0	5350.9	5414.0	5400.3	5249.2	4941.6	4411.4	3724.7	3392.4	3016.0	2403.5
15°	5993.6	5935.9	5916.7	5900.2	5839.8	5611.8	5136.6	4384.0	3903.3	3450.0	2617.7
17.5°	6485.3	6337.0	6408.4	6422.1	6416.6	6210.6	5765.6	5010.3	4444.4	3908.8	2843.0
20°	6922.1	6935.8	6839.7	6820.4	6804.0	6795.7	6361.7	5631.0	5109.1	4389.5	3136.9
22.5°	7482.4	7386.3	7471.4	7416.5	7309.4	7243.4	6911.1	6180.4	5686.0	4969.1	3436.3
25°	8144.4	8221.3	8020.8	7998.8	7880.7	7652.7	7353.3	6795.7	6240.8	5507.4	3760.4
27.5°	8960.2	8825.6	8773.4	8652.6	8438.3	8342.2	7990.6	7430.2	6911.1	6073.3	4073.6
30°	9660.7	9625.0	9364.0	9221.2	9034.4	9031.6	8540.0	8290.0	7784.6	6960.5	4504.8
32.5°	10232.0	10075.4	9979.3	9880.4	9729.3	9770.5	9355.8	9223.9	8715.8	7784.6	5013.0
35°	10613.8	10501.2	10443.5	10292.5	10248.5	10432.5	10259.5	10204.6	9787.0	8943.7	5609.1
37.5°	10734.7	10770.4	10759.4	10569.9	10663.3	11160.5	11383.0	11240.1	11020.4	10166.1	6254.6
40°	10841.8	10866.5	10811.6	11034.1	11300.5	11866.4	12671.2	12435.0	12352.6	11404.9	7152.8
42.5°	10902.3	10883.0	10883.0	11267.6	11671.4	12808.6	13915.5	13759.0	13695.8	12723.4	8191.1
45°	10641.3	10454.5	10655.0	11176.9	11990.0	13272.8	14909.9	15126.9	15036.3	14291.9	9405.2
47.5°	9666.2	9781.5	9894.2	10591.9	11602.7	13129.9	15519.7	16258.6	16426.2	15610.4	10201.8
50°	8191.1	8166.4	8399.9	9278.9	10506.7	12514.7	15401.6	16585.5	16890.4	16005.9	10369.4
52.5°	5957.9	6139.2	6391.9	7265.4	8721.3	10921.5	13877.1	15742.2	16148.7	15519.7	10259.5
55°	3469.3	3268.8	3837.4	4576.3	5949.7	8237.8	11731.8	13954.0	14706.6	14635.2	9704.6
57.5°	1389.9	1346.0	1541.0	2076.6	3103.9	5106.4	8531.7	11465.4	12671.2	13404.6	8529.0
60°	609.8	596.1	700.4	846.0	1269.0	2354.1	4666.9	7130.8	8388.9	9366.8	5870.0
62.5°	439.5	434.0	486.2	538.4	670.2	1024.6	1961.3	2873.2	3581.9	4326.3	2628.7
65°	354.3	368.1	403.8	431.3	494.4	568.6	692.2	799.3	980.6	1016.3	579.6
67.5°	288.4	299.4	332.4	362.6	373.6	307.6	318.6	280.2	280.2	250.0	200.5
70°	211.5	214.3	252.7	288.4	230.7	123.6	217.0	217.0	195.0	186.8	170.3
72.5°	156.6	159.3	189.5	178.5	90.6	76.9	159.3	175.8	159.3	151.1	137.3
75°	115.4	118.1	98.9	41.2	38.5	49.4	93.4	120.9	115.4	112.6	104.4
77.5°	22.0	16.5	13.7	19.2	27.5	41.2	60.4	74.2	76.9	82.4	76.9
80°	2.7	2.7	8.2	16.5	30.2	43.9	63.2	71.4	74.2	76.9	71.4
82.5°	0.0	2.7	8.2	16.5	30.2	41.2	54.9	63.2	68.7	71.4	68.7
85°	0.0	2.7	5.5	13.7	24.7	30.2	27.5	19.2	16.5	19.2	13.7
87.5°	0.0	0.0	2.7	2.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5
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°	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5	1730.5
2.5°	1752.5	1741.5	1703.0	1661.8	1626.1	1642.6	1626.1	1612.4	1617.9	1612.4	1606.9
5°	1848.6	1799.2	1716.8	1681.1	1650.9	1648.1	1639.9	1637.1	1639.9	1639.9	1615.1
7.5°	1939.3	1859.6	1771.7	1733.3	1697.6	1700.3	1681.1	1681.1	1678.3	1664.6	1659.1
10°	2076.6	1969.5	1856.9	1788.2	1744.3	1736.0	1716.8	1697.6	1697.6	1697.6	1670.1
12.5°	2227.7	2093.1	1939.3	1859.6	1807.4	1766.2	1736.0	1730.5	1700.3	1694.8	1681.1
15°	2359.5	2189.2	1994.2	1884.3	1818.4	1763.5	1716.8	1686.6	1672.8	1664.6	1653.6
17.5°	2488.6	2271.6	2024.4	1884.3	1812.9	1749.7	1700.3	1672.8	1639.9	1645.4	1623.4
20°	2661.7	2359.5	2032.7	1848.6	1760.7	1700.3	1634.4	1620.6	1601.4	1584.9	1590.4
22.5°	2829.3	2422.7	2007.9	1804.7	1678.3	1606.9	1573.9	1557.5	1549.2	1535.5	1516.3
25°	2980.3	2491.4	1969.5	1725.0	1590.4	1538.2	1508.0	1505.3	1486.0	1486.0	1450.3
27.5°	3134.2	2516.1	1903.6	1631.6	1513.5	1483.3	1469.6	1464.1	1455.8	1436.6	1411.9
30°	3310.0	2524.4	1807.4	1535.5	1444.8	1411.9	1431.1	1444.8	1409.1	1373.4	1384.4
32.5°	3455.5	2505.1	1692.1	1444.8	1395.4	1378.9	1417.4	1431.1	1389.9	1351.5	1332.2
35°	3631.3	2458.4	1579.4	1373.4	1346.0	1378.9	1411.9	1411.9	1329.5	1282.8	1271.8
37.5°	3897.8	2406.2	1475.1	1313.0	1293.8	1362.4	1406.4	1376.2	1247.1	1189.4	1175.7
40°	4183.5	2373.3	1373.4	1252.6	1266.3	1335.0	1359.7	1266.3	1134.4	1098.7	1087.8
42.5°	4598.2	2307.4	1282.8	1200.4	1241.6	1296.5	1296.5	1129.0	1079.5	1060.3	1057.5
45°	5114.6	2260.7	1203.1	1156.4	1205.9	1219.6	1175.7	1057.5	1021.8	1016.3	1019.1
47.5°	5367.3	2170.0	1120.7	1104.2	1139.9	1142.7	1027.3	999.9	969.6	961.4	955.9
50°	5328.9	2007.9	1013.6	1035.6	1085.0	1057.5	936.7	942.2	914.7	912.0	898.2
52.5°	5059.7	1752.5	906.5	958.7	1013.6	933.9	862.5	857.0	857.0	821.3	807.6
55°	4485.6	1411.9	777.4	843.3	909.2	785.6	766.4	760.9	747.1	714.2	705.9
57.5°	3551.7	1035.6	585.1	656.5	771.9	667.5	664.7	640.0	604.3	579.6	579.6
60°	2112.3	596.1	368.1	401.0	510.9	541.1	601.6	590.6	530.1	491.7	480.7
62.5°	964.1	307.6	233.5	239.0	274.7	351.6	472.5	546.6	461.5	395.5	390.1
65°	324.1	228.0	192.3	184.0	189.5	211.5	282.9	387.3	368.1	304.9	293.9
67.5°	197.8	203.3	181.3	167.6	167.6	164.8	162.1	175.8	217.0	211.5	214.3
70°	170.3	186.8	167.6	151.1	145.6	137.3	115.4	96.1	82.4	96.1	101.6
72.5°	137.3	148.3	142.8	129.1	115.4	104.4	82.4	63.2	46.7	41.2	41.2
75°	101.6	109.9	115.4	98.9	87.9	74.2	60.4	41.2	24.7	16.5	16.5
77.5°	74.2	82.4	85.2	76.9	65.9	52.2	38.5	27.5	13.7	5.5	5.5
80°	63.2	74.2	82.4	76.9	68.7	49.4	35.7	19.2	11.0	2.7	2.7
82.5°	60.4	74.2	82.4	74.2	65.9	46.7	35.7	22.0	8.2	2.7	2.7
85°	13.7	19.2	24.7	30.2	35.7	35.7	27.5	16.5	8.2	2.7	2.7
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	2.7	2.7	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)