

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: P530763

Luminaire Tested: **GALN-SA6A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530763  
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-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 16334 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

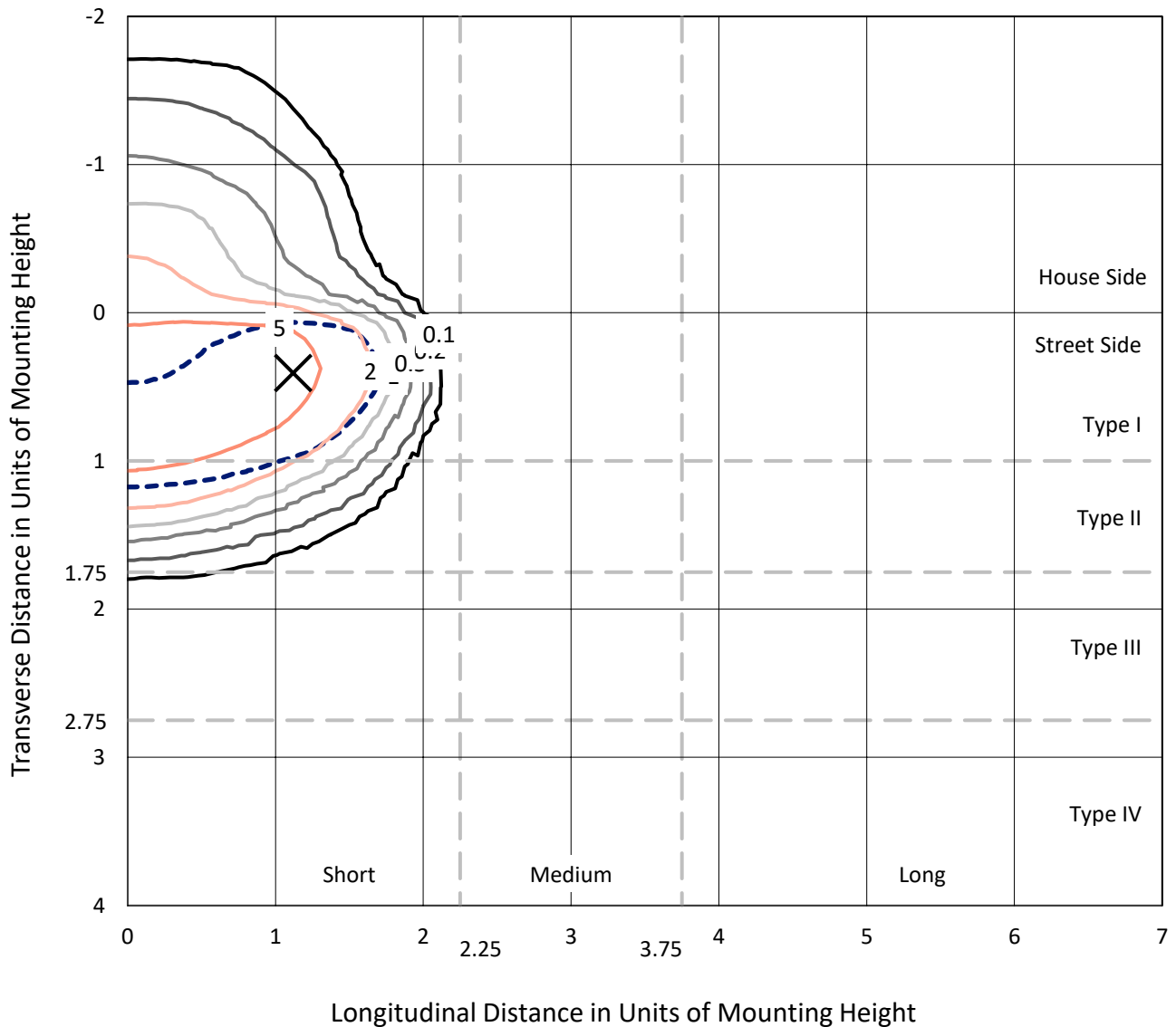
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

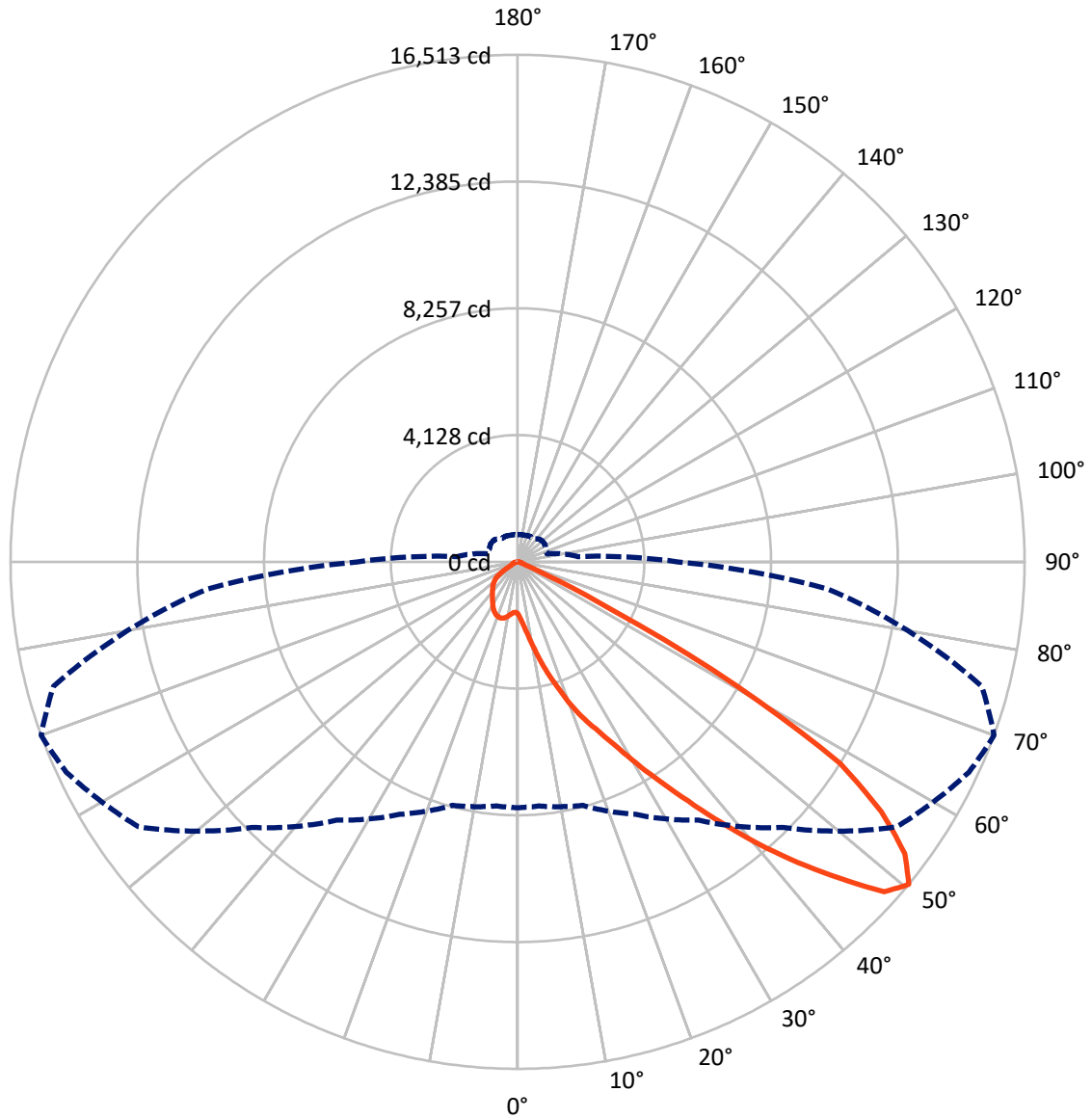
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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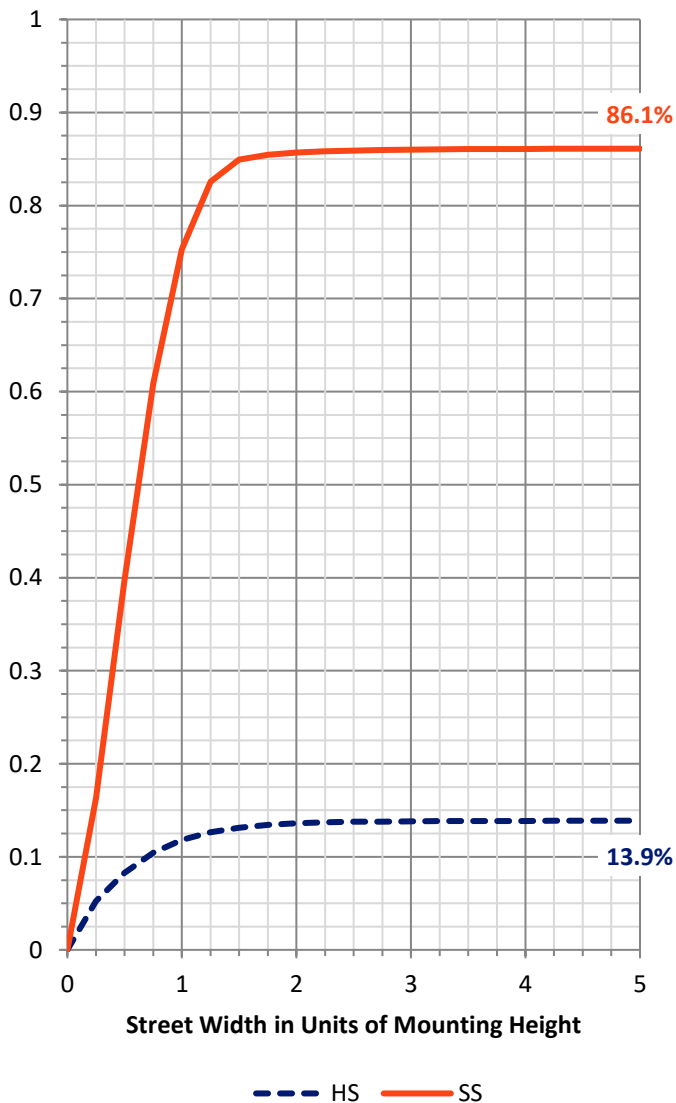
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2281.2	0.0	2281.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14052.9	0.0	14052.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16334.0	0.0	16334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	1.3
10°-20°	951.7	5.8
20°-30°	1996.4	12.2
30°-40°	3441.2	21.1
40°-50°	5029.3	30.8
50°-60°	3917.0	24.0
60°-70°	663.7	4.1
70°-80°	91.2	0.6
80°-90°	23.6	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°	16334.0	100.0
0°-180°	16334.0	100.0

**Coefficient of Utilization**



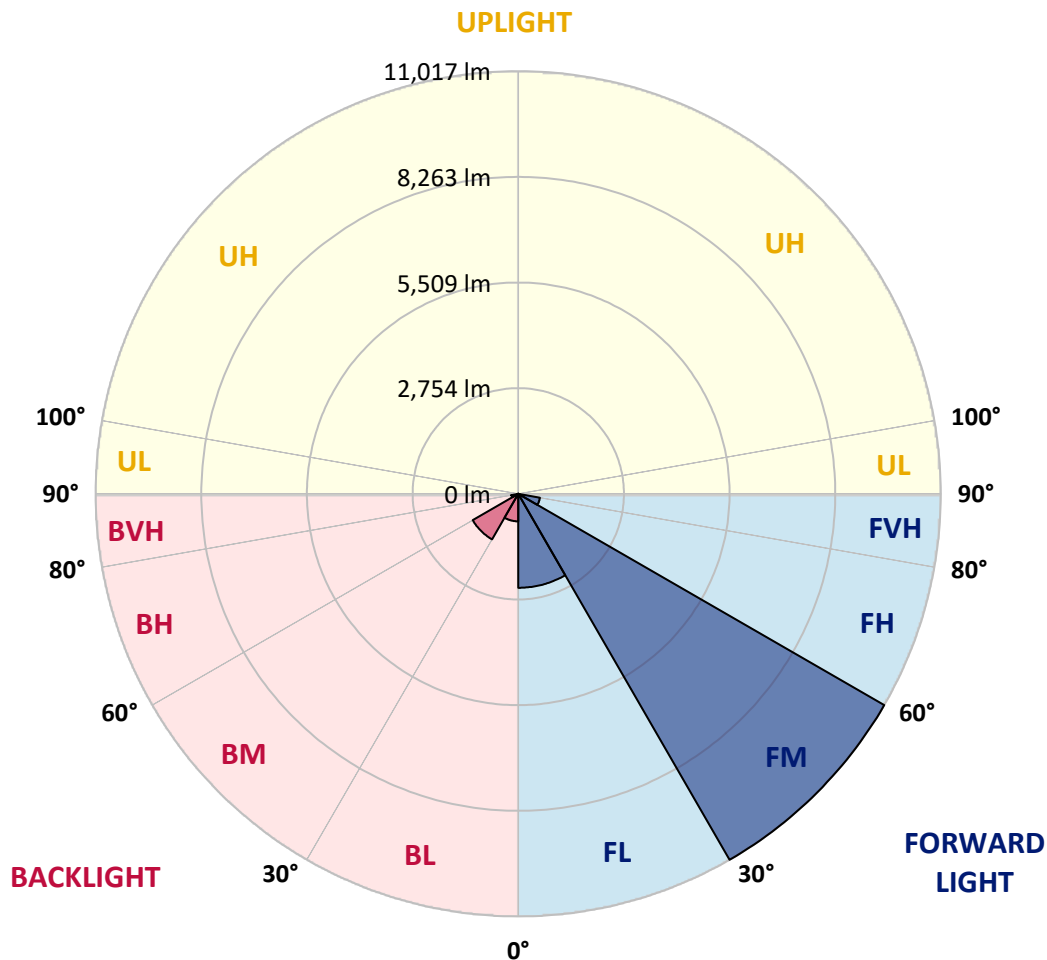
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.3	15.0			
FM (30°-60°)	11017.0	67.4			
FH (60°-80°)	574.6	3.5			G0/660
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	717.8	4.4	B2/1000		
BM (30°-60°)	1370.4	8.4	B2/2500		
BH (60°-80°)	180.2	1.1	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9
2.5°	2215.6	2199.4	2164.5	2100.1	2073.2	2008.8	1971.2	1898.7	1853.0	1802.0	1745.6
5°	3120.6	3037.3	2986.3	2913.8	2701.6	2570.0	2352.5	2167.2	2081.3	1987.3	1858.4
7.5°	4055.1	4001.4	3931.6	3775.8	3630.8	3356.9	2983.6	2575.4	2400.9	2239.7	1984.6
10°	4828.6	4678.2	4670.1	4554.7	4396.2	4068.6	3620.1	3112.5	2801.0	2564.7	2164.5
12.5°	5368.4	5231.4	5293.2	5279.7	5132.0	4831.3	4313.0	3641.6	3316.6	2948.7	2349.8
15°	5859.8	5803.4	5784.6	5768.5	5709.4	5486.5	5021.9	4286.1	3816.1	3373.0	2559.3
17.5°	6340.5	6195.5	6265.3	6278.8	6273.4	6072.0	5636.9	4898.4	4345.2	3821.5	2779.5
20°	6767.5	6781.0	6687.0	6668.2	6652.0	6644.0	6219.7	5505.3	4995.1	4291.5	3066.9
22.5°	7315.4	7221.4	7304.6	7250.9	7146.2	7081.7	6756.8	6042.4	5559.0	4858.1	3359.6
25°	7962.6	8037.8	7841.7	7820.2	7704.8	7481.9	7189.2	6644.0	6101.5	5384.5	3676.5
27.5°	8760.2	8628.6	8577.6	8459.4	8249.9	8155.9	7812.2	7264.3	6756.8	5937.7	3982.6
30°	9445.0	9410.1	9155.0	9015.3	8832.7	8830.0	8349.3	8104.9	7610.8	6805.1	4404.3
32.5°	10003.6	9850.5	9756.5	9659.8	9512.1	9552.4	9146.9	9018.0	8521.2	7610.8	4901.1
35°	10376.9	10266.8	10210.4	10062.7	10019.7	10199.6	10030.4	9976.7	9568.5	8744.1	5483.8
37.5°	10495.0	10529.9	10519.2	10333.9	10425.2	10911.3	11128.8	10989.2	10774.3	9939.1	6114.9
40°	10599.8	10623.9	10570.2	10787.8	11048.2	11601.5	12388.3	12157.4	12076.8	11150.3	6993.1
42.5°	10658.8	10640.1	10640.1	11016.0	11410.8	12522.6	13604.9	13451.8	13390.0	12439.4	8008.2
45°	10403.7	10221.1	10417.2	10927.4	11722.3	12976.5	14577.0	14789.2	14700.6	13972.8	9195.2
47.5°	9450.4	9563.2	9673.3	10355.4	11343.7	12836.8	15173.2	15895.6	16059.4	15261.8	9974.0
50°	8008.2	7984.1	8212.3	9071.7	10272.1	12235.3	15057.7	16215.2	16513.3	15648.6	10137.9
52.5°	5824.9	6002.1	6249.2	7103.2	8526.5	10677.6	13567.3	15390.7	15788.2	15173.2	10030.4
55°	3391.8	3195.8	3751.7	4474.1	5816.8	8053.9	11469.9	13642.5	14378.3	14308.5	9488.0
57.5°	1358.9	1315.9	1506.6	2030.3	3034.6	4992.4	8341.2	11209.4	12388.3	13105.4	8338.6
60°	596.2	582.8	684.8	827.1	1240.7	2301.5	4562.7	6971.6	8201.6	9157.6	5739.0
62.5°	429.7	424.3	475.3	526.4	655.3	1001.7	1917.5	2809.1	3501.9	4229.7	2570.0
65°	346.4	359.9	394.8	421.6	483.4	555.9	676.8	781.5	958.7	993.6	566.6
67.5°	282.0	292.7	324.9	354.5	365.2	300.8	311.5	273.9	273.9	244.4	196.0
70°	206.8	209.5	247.1	282.0	225.6	120.8	212.2	212.2	190.7	182.6	166.5
72.5°	153.1	155.8	185.3	174.6	88.6	75.2	155.8	171.9	155.8	147.7	134.3
75°	112.8	115.5	96.7	40.3	37.6	48.3	91.3	118.2	112.8	110.1	102.0
77.5°	21.5	16.1	13.4	18.8	26.9	40.3	59.1	72.5	75.2	80.6	75.2
80°	2.7	2.7	8.1	16.1	29.5	43.0	61.8	69.8	72.5	75.2	69.8
82.5°	0.0	2.7	8.1	16.1	29.5	40.3	53.7	61.8	67.1	69.8	67.1
85°	0.0	2.7	5.4	13.4	24.2	29.5	26.9	18.8	16.1	18.8	13.4
87.5°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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°	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9	1691.9
2.5°	1713.4	1702.6	1665.0	1624.7	1589.8	1605.9	1589.8	1576.4	1581.8	1576.4	1571.0
5°	1807.4	1759.0	1678.5	1643.5	1614.0	1611.3	1603.3	1600.6	1603.3	1603.3	1579.1
7.5°	1896.0	1818.1	1732.2	1694.6	1659.7	1662.3	1643.5	1643.5	1640.9	1627.4	1622.1
10°	2030.3	1925.5	1815.4	1748.3	1705.3	1697.3	1678.5	1659.7	1659.7	1659.7	1632.8
12.5°	2178.0	2046.4	1896.0	1818.1	1767.1	1726.8	1697.3	1691.9	1662.3	1657.0	1643.5
15°	2306.9	2140.4	1949.7	1842.3	1777.8	1724.1	1678.5	1648.9	1635.5	1627.4	1616.7
17.5°	2433.1	2220.9	1979.2	1842.3	1772.4	1710.7	1662.3	1635.5	1603.3	1608.6	1587.1
20°	2602.3	2306.9	1987.3	1807.4	1721.4	1662.3	1597.9	1584.5	1565.7	1549.5	1554.9
22.5°	2766.1	2368.6	1963.1	1764.4	1640.9	1571.0	1538.8	1522.7	1514.6	1501.2	1482.4
25°	2913.8	2435.8	1925.5	1686.5	1554.9	1503.9	1474.4	1471.7	1452.9	1452.9	1418.0
27.5°	3064.2	2459.9	1861.1	1595.2	1479.7	1450.2	1436.8	1431.4	1423.3	1404.5	1380.4
30°	3236.1	2468.0	1767.1	1501.2	1412.6	1380.4	1399.2	1412.6	1377.7	1342.8	1353.5
32.5°	3378.4	2449.2	1654.3	1412.6	1364.2	1348.1	1385.7	1399.2	1358.9	1321.3	1302.5
35°	3550.3	2403.5	1544.2	1342.8	1315.9	1348.1	1380.4	1380.4	1299.8	1254.1	1243.4
37.5°	3810.8	2352.5	1442.1	1283.7	1264.9	1332.0	1375.0	1345.4	1219.2	1162.8	1149.4
40°	4090.1	2320.3	1342.8	1224.6	1238.0	1305.2	1329.3	1238.0	1109.1	1074.2	1063.5
42.5°	4495.6	2255.8	1254.1	1173.6	1213.9	1267.6	1267.6	1103.8	1055.4	1036.6	1033.9
45°	5000.4	2210.2	1176.3	1130.6	1178.9	1192.4	1149.4	1033.9	999.0	993.6	996.3
47.5°	5247.5	2121.6	1095.7	1079.6	1114.5	1117.2	1004.4	977.5	948.0	939.9	934.6
50°	5209.9	1963.1	991.0	1012.4	1060.8	1033.9	915.8	921.1	894.3	891.6	878.2
52.5°	4946.7	1713.4	886.2	937.2	991.0	913.1	843.3	837.9	837.9	803.0	789.5
55°	4385.5	1380.4	760.0	824.5	888.9	768.1	749.3	743.9	730.5	698.2	690.2
57.5°	3472.4	1012.4	572.0	641.8	754.6	652.6	649.9	625.7	590.8	566.6	566.6
60°	2065.2	582.8	359.9	392.1	499.5	529.0	588.1	577.4	518.3	480.7	470.0
62.5°	942.6	300.8	228.3	233.6	268.6	343.7	461.9	534.4	451.2	386.7	381.3
65°	316.9	222.9	188.0	179.9	185.3	206.8	276.6	378.7	359.9	298.1	287.4
67.5°	193.4	198.7	177.2	163.8	163.8	161.1	158.4	171.9	212.2	206.8	209.5
70°	166.5	182.6	163.8	147.7	142.3	134.3	112.8	94.0	80.6	94.0	99.4
72.5°	134.3	145.0	139.6	126.2	112.8	102.0	80.6	61.8	45.7	40.3	40.3
75°	99.4	107.4	112.8	96.7	85.9	72.5	59.1	40.3	24.2	16.1	16.1
77.5°	72.5	80.6	83.3	75.2	64.5	51.0	37.6	26.9	13.4	5.4	5.4
80°	61.8	72.5	80.6	75.2	67.1	48.3	34.9	18.8	10.7	2.7	2.7
82.5°	59.1	72.5	80.6	72.5	64.5	45.7	34.9	21.5	8.1	2.7	2.7
85°	13.4	18.8	24.2	29.5	34.9	34.9	26.9	16.1	8.1	2.7	2.7
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	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)