

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: P529385

Luminaire Tested: **GALN-SA4C-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529385  
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-SA4C-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA 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: 17135 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

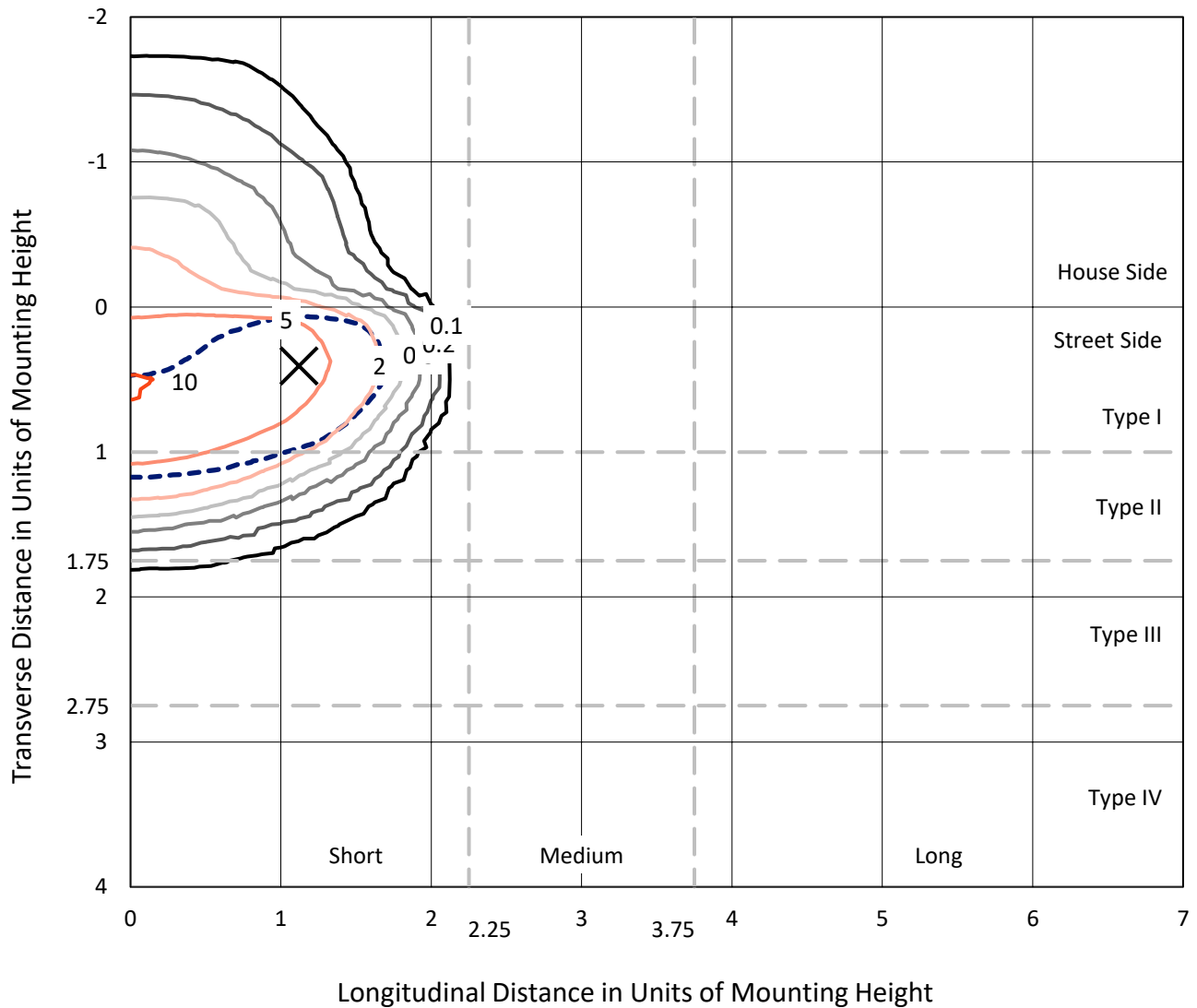
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

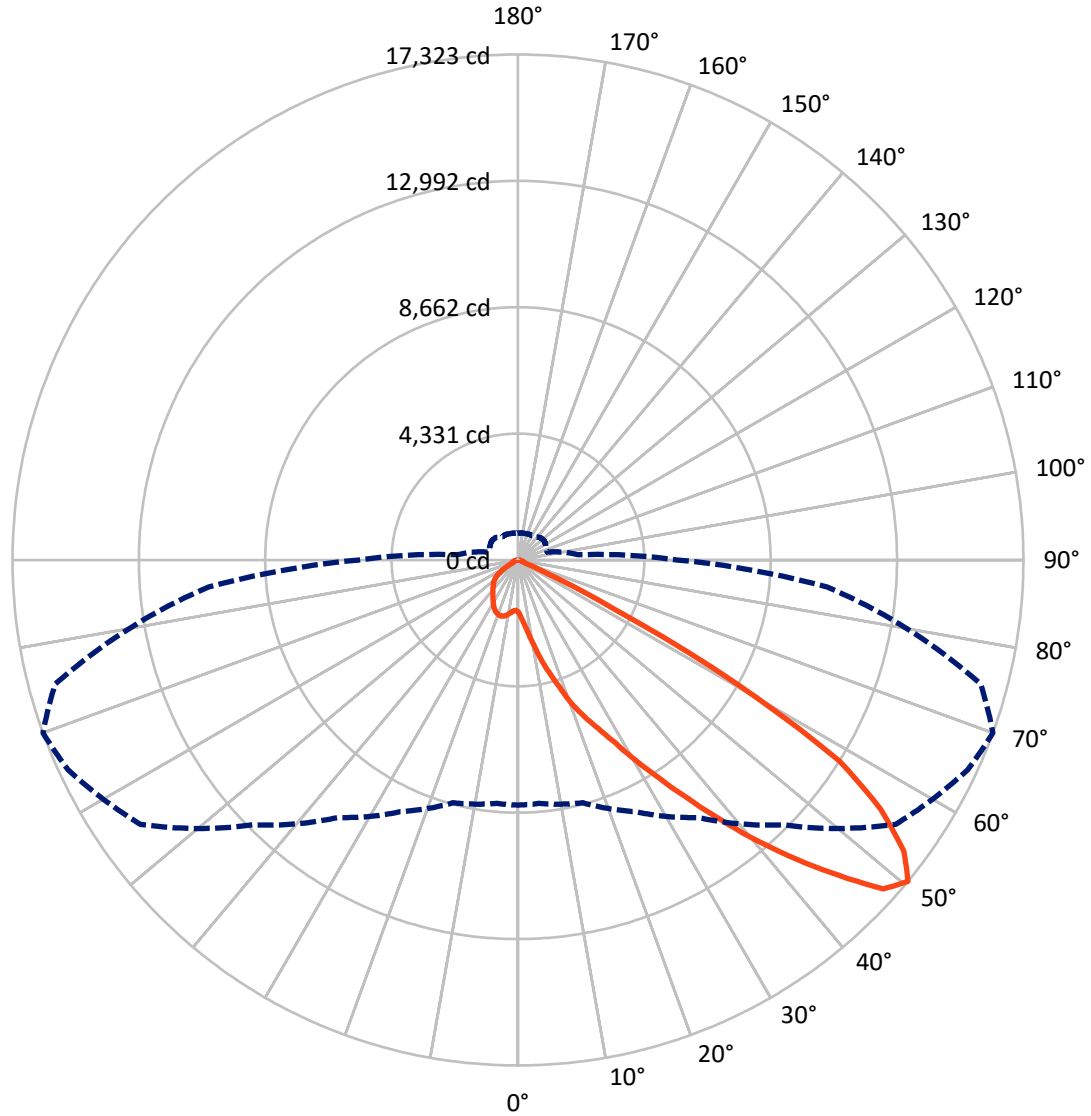
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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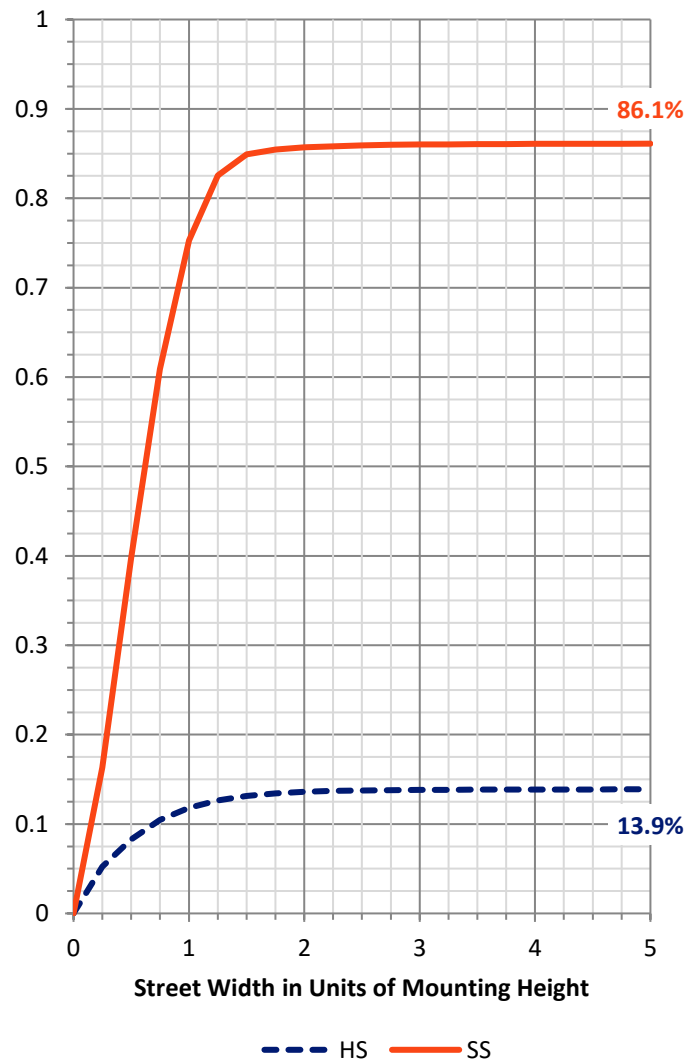
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2393.0	0.0	2393.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14742.0	0.0	14742.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	17135.0	0.0	17135.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.8	1.3
10°-20°	998.3	5.8
20°-30°	2094.3	12.2
30°-40°	3609.9	21.1
40°-50°	5275.9	30.8
50°-60°	4109.1	24.0
60°-70°	696.2	4.1
70°-80°	95.6	0.6
80°-90°	24.8	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°	17135.0	100.0
0°-180°	17135.0	100.0



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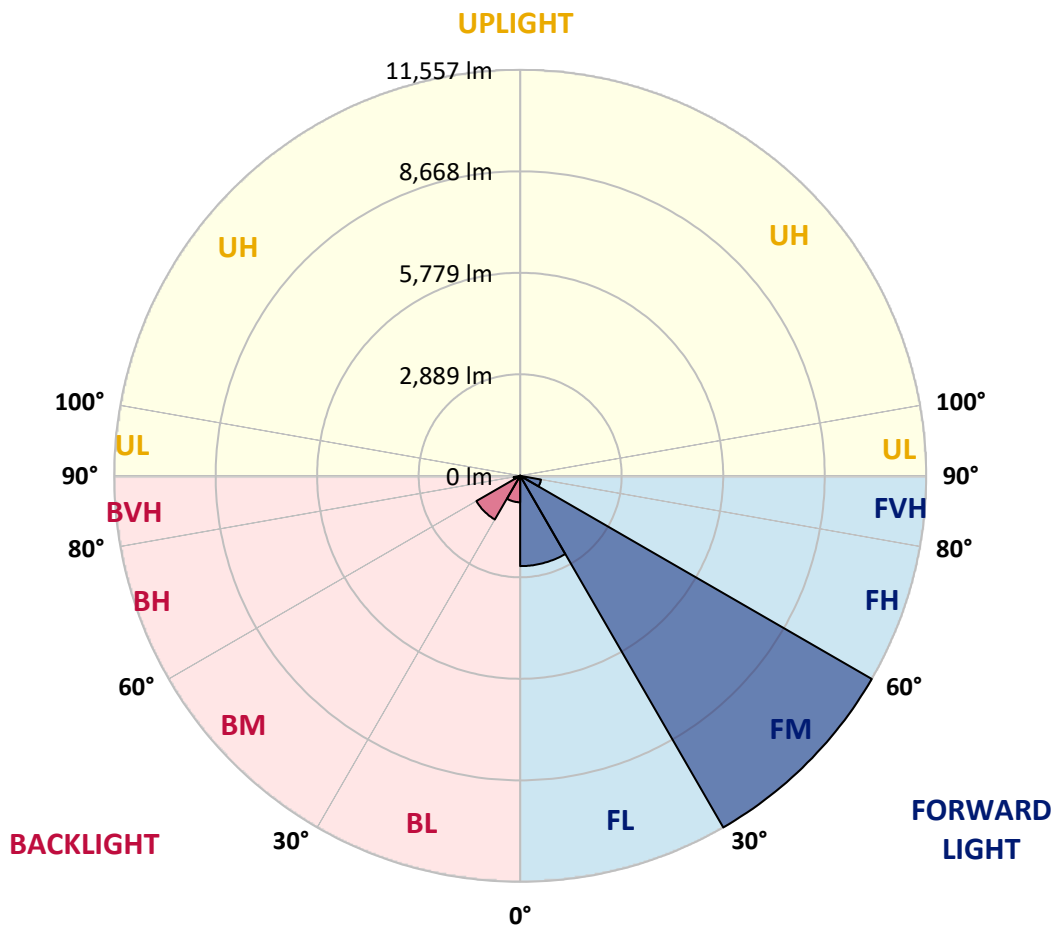
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2570.5	15.0			
FM (30°-60°)	11557.3	67.4			
FH (60°-80°)	602.8	3.5			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	753.0	4.4	B2/1000		
BM (30°-60°)	1437.6	8.4	B2/2500		
BH (60°-80°)	189.0	1.1	B1/500		G1/500
BVH (80°-90°)	13.3	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°	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8
2.5°	2324.2	2307.3	2270.7	2203.1	2174.9	2107.3	2067.8	1991.8	1943.9	1890.4	1831.2
5°	3273.6	3186.3	3132.7	3056.7	2834.1	2696.1	2467.9	2273.5	2183.3	2084.7	1949.5
7.5°	4254.0	4197.7	4124.4	3961.0	3808.9	3521.5	3129.9	2701.7	2518.6	2349.6	2081.9
10°	5065.4	4907.6	4899.1	4778.0	4611.8	4268.1	3797.6	3265.2	2938.4	2690.4	2270.7
12.5°	5631.6	5487.9	5552.7	5538.7	5383.7	5068.2	4524.5	3820.2	3479.3	3093.3	2465.1
15°	6147.2	6088.0	6068.3	6051.4	5989.4	5755.6	5268.2	4496.3	4003.3	3538.4	2684.8
17.5°	6651.5	6499.3	6572.6	6586.7	6581.0	6369.7	5913.3	5138.6	4558.3	4008.9	2915.8
20°	7099.4	7113.5	7014.9	6995.2	6978.3	6969.8	6524.7	5775.3	5240.0	4501.9	3217.3
22.5°	7674.1	7575.5	7662.8	7606.5	7496.6	7429.0	7088.1	6338.7	5831.6	5096.4	3524.3
25°	8353.1	8431.9	8226.3	8203.7	8082.6	7848.8	7541.7	6969.8	6400.7	5648.5	3856.8
27.5°	9189.8	9051.7	8998.2	8874.2	8654.5	8555.9	8195.3	7620.6	7088.1	6228.9	4177.9
30°	9908.2	9871.5	9603.9	9457.4	9265.8	9263.0	8758.7	8502.4	7984.0	7138.8	4620.2
32.5°	10494.1	10333.6	10235.0	10133.5	9978.6	10020.9	9595.5	9460.2	8939.0	7984.0	5141.4
35°	10885.7	10770.2	10711.1	10556.1	10511.0	10699.8	10522.3	10466.0	10037.8	9172.9	5752.8
37.5°	11009.7	11046.3	11035.1	10840.7	10936.4	11446.4	11674.6	11528.1	11302.7	10426.5	6414.8
40°	11119.6	11144.9	11088.6	11316.8	11590.0	12170.4	12995.8	12753.6	12669.0	11697.1	7336.0
42.5°	11181.5	11161.8	11161.8	11556.2	11970.4	13136.7	14272.0	14111.5	14046.7	13049.4	8400.9
45°	10913.9	10722.3	10928.0	11463.3	12297.2	13612.8	15291.9	15514.4	15421.5	14658.0	9646.2
47.5°	9913.8	10032.1	10147.6	10863.2	11899.9	13466.3	15917.3	16675.1	16847.0	16010.3	10463.2
50°	8400.9	8375.6	8615.1	9516.6	10775.9	12835.3	15796.2	17010.4	17323.1	16415.9	10635.0
52.5°	6110.6	6296.5	6555.7	7451.5	8944.7	11201.3	14232.6	16145.5	16562.4	15917.3	10522.3
55°	3558.1	3352.5	3935.7	4693.5	6102.1	8448.8	12032.3	14311.5	15083.4	15010.1	9953.2
57.5°	1425.5	1380.4	1580.5	2129.8	3183.5	5237.2	8750.3	11759.1	12995.8	13748.0	8747.5
60°	625.4	611.3	718.4	867.7	1301.6	2414.4	4786.5	7313.5	8603.8	9606.7	6020.4
62.5°	450.8	445.1	498.6	552.2	687.4	1050.8	2011.5	2946.8	3673.7	4437.1	2696.1
65°	363.4	377.5	414.1	442.3	507.1	583.2	709.9	819.8	1005.7	1042.4	594.4
67.5°	295.8	307.1	340.9	371.9	383.1	315.5	326.8	287.4	287.4	256.4	205.7
70°	216.9	219.7	259.2	295.8	236.6	126.8	222.6	222.6	200.0	191.6	174.7
72.5°	160.6	163.4	194.4	183.1	93.0	78.9	163.4	180.3	163.4	154.9	140.9
75°	118.3	121.1	101.4	42.3	39.4	50.7	95.8	124.0	118.3	115.5	107.1
77.5°	22.5	16.9	14.1	19.7	28.2	42.3	62.0	76.1	78.9	84.5	78.9
80°	2.8	2.8	8.5	16.9	31.0	45.1	64.8	73.2	76.1	78.9	73.2
82.5°	0.0	2.8	8.5	16.9	31.0	42.3	56.3	64.8	70.4	73.2	70.4
85°	0.0	2.8	5.6	14.1	25.4	31.0	28.2	19.7	16.9	19.7	14.1
87.5°	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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°	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8	1774.8
2.5°	1797.4	1786.1	1746.7	1704.4	1667.8	1684.7	1667.8	1653.7	1659.3	1653.7	1648.1
5°	1896.0	1845.3	1760.8	1724.1	1693.1	1690.3	1681.9	1679.1	1681.9	1681.9	1656.5
7.5°	1989.0	1907.3	1817.1	1777.7	1741.0	1743.9	1724.1	1724.1	1721.3	1707.2	1701.6
10°	2129.8	2019.9	1904.4	1834.0	1788.9	1780.5	1760.8	1741.0	1741.0	1741.0	1712.9
12.5°	2284.8	2146.7	1989.0	1907.3	1853.7	1811.5	1780.5	1774.8	1743.9	1738.2	1724.1
15°	2420.0	2245.3	2045.3	1932.6	1865.0	1808.7	1760.8	1729.8	1715.7	1707.2	1696.0
17.5°	2552.4	2329.8	2076.3	1932.6	1859.4	1794.6	1743.9	1715.7	1681.9	1687.5	1665.0
20°	2729.9	2420.0	2084.7	1896.0	1805.8	1743.9	1676.2	1662.2	1642.4	1625.5	1631.2
22.5°	2901.7	2484.8	2059.4	1850.9	1721.3	1648.1	1614.3	1597.4	1588.9	1574.8	1555.1
25°	3056.7	2555.2	2019.9	1769.2	1631.2	1577.6	1546.7	1543.8	1524.1	1524.1	1487.5
27.5°	3214.4	2580.6	1952.3	1673.4	1552.3	1521.3	1507.2	1501.6	1493.1	1473.4	1448.1
30°	3394.8	2589.0	1853.7	1574.8	1481.9	1448.1	1467.8	1481.9	1445.2	1408.6	1419.9
32.5°	3544.1	2569.3	1735.4	1481.9	1431.1	1414.2	1453.7	1467.8	1425.5	1386.1	1366.4
35°	3724.4	2521.4	1619.9	1408.6	1380.4	1414.2	1448.1	1448.1	1363.5	1315.6	1304.4
37.5°	3997.6	2467.9	1512.8	1346.6	1326.9	1397.3	1442.4	1411.4	1279.0	1219.9	1205.8
40°	4290.6	2434.1	1408.6	1284.7	1298.7	1369.2	1394.5	1298.7	1163.5	1126.9	1115.6
42.5°	4716.0	2366.5	1315.6	1231.1	1273.4	1329.7	1329.7	1157.9	1107.2	1087.4	1084.6
45°	5245.7	2318.6	1233.9	1186.0	1236.8	1250.8	1205.8	1084.6	1048.0	1042.4	1045.2
47.5°	5504.8	2225.6	1149.4	1132.5	1169.1	1172.0	1053.6	1025.5	994.5	986.0	980.4
50°	5465.4	2059.4	1039.6	1062.1	1112.8	1084.6	960.7	966.3	938.1	935.3	921.2
52.5°	5189.3	1797.4	929.7	983.2	1039.6	957.9	884.6	879.0	879.0	842.3	828.3
55°	4600.5	1448.1	797.3	864.9	932.5	805.7	786.0	780.4	766.3	732.5	724.0
57.5°	3642.7	1062.1	600.1	673.3	791.6	684.6	681.8	656.4	619.8	594.4	594.4
60°	2166.4	611.3	377.5	411.3	524.0	555.0	617.0	605.7	543.7	504.3	493.0
62.5°	988.8	315.5	239.5	245.1	281.7	360.6	484.6	560.6	473.3	405.7	400.0
65°	332.4	233.8	197.2	188.8	194.4	216.9	290.2	397.2	377.5	312.7	301.4
67.5°	202.8	208.5	185.9	171.9	171.9	169.0	166.2	180.3	222.6	216.9	219.7
70°	174.7	191.6	171.9	154.9	149.3	140.9	118.3	98.6	84.5	98.6	104.2
72.5°	140.9	152.1	146.5	132.4	118.3	107.1	84.5	64.8	47.9	42.3	42.3
75°	104.2	112.7	118.3	101.4	90.2	76.1	62.0	42.3	25.4	16.9	16.9
77.5°	76.1	84.5	87.3	78.9	67.6	53.5	39.4	28.2	14.1	5.6	5.6
80°	64.8	76.1	84.5	78.9	70.4	50.7	36.6	19.7	11.3	2.8	2.8
82.5°	62.0	76.1	84.5	76.1	67.6	47.9	36.6	22.5	8.5	2.8	2.8
85°	14.1	19.7	25.4	31.0	36.6	36.6	28.2	16.9	8.5	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	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)