

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: P530997

Luminaire Tested: **GALN-SA6B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530997  
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-SA6B-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 20324 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

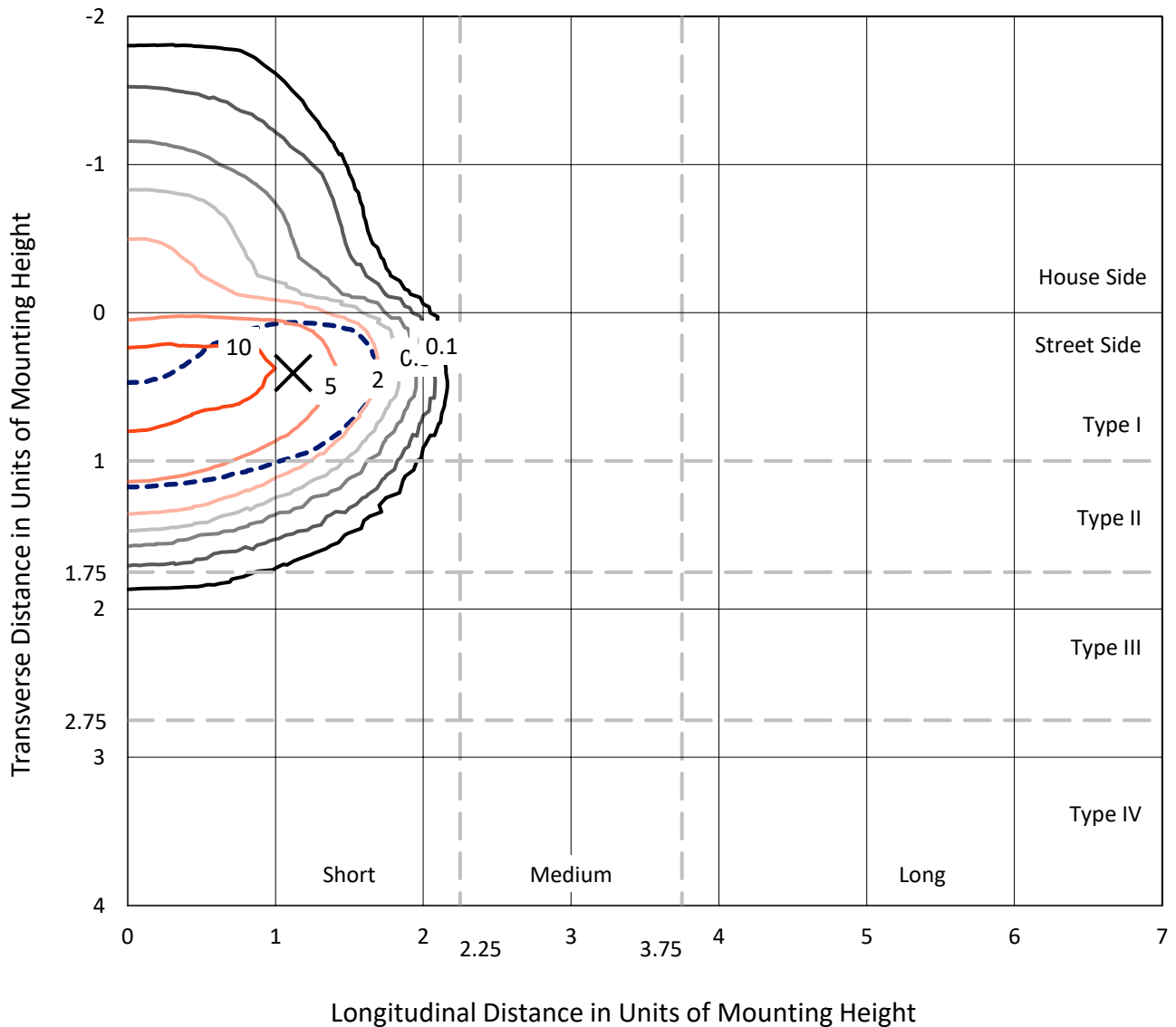
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

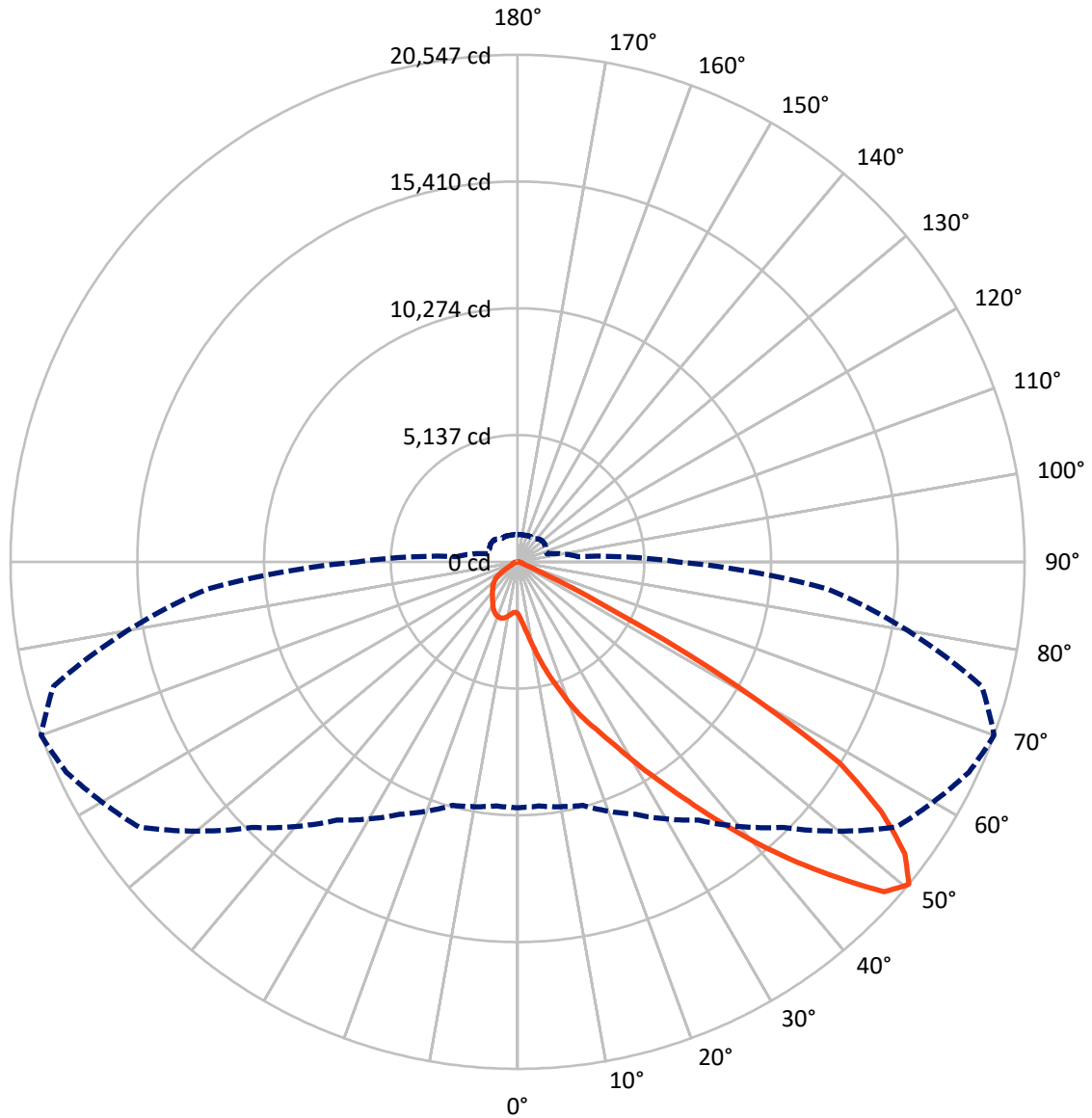
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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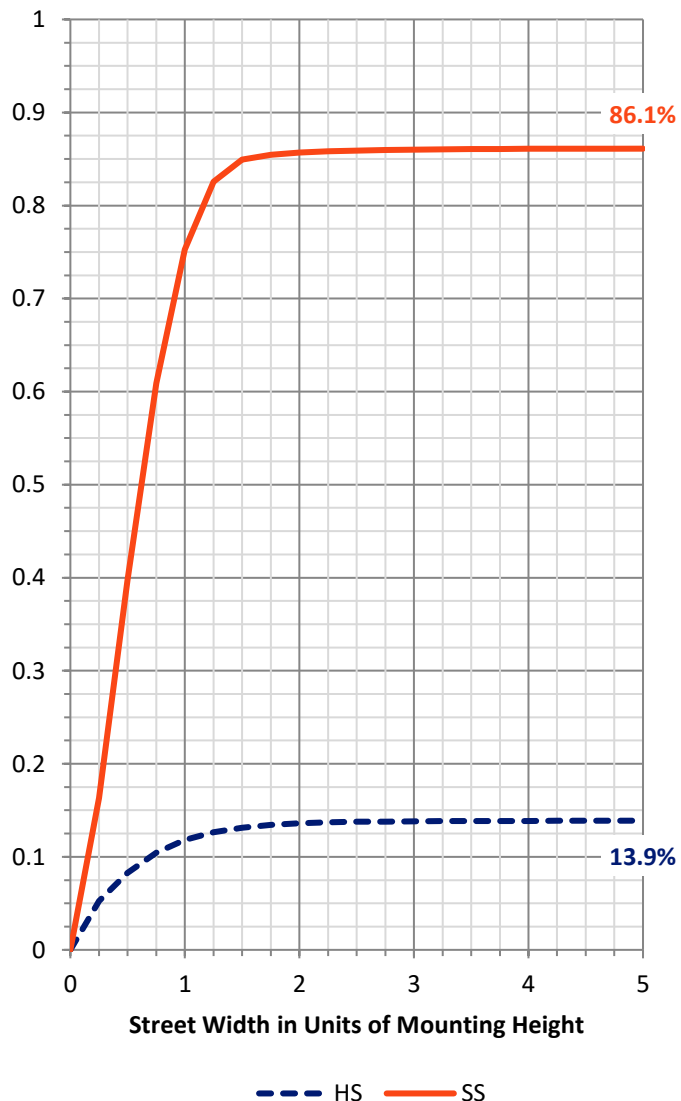
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2838.4	0.0	2838.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17485.6	0.0	17485.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20324.0	0.0	20324.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	1.3
10°-20°	1184.1	5.8
20°-30°	2484.1	12.2
30°-40°	4281.8	21.1
40°-50°	6257.8	30.8
50°-60°	4873.8	24.0
60°-70°	825.8	4.1
70°-80°	113.4	0.6
80°-90°	29.4	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°	20324.0	100.0
0°-180°	20324.0	100.0

**Coefficient of Utilization**



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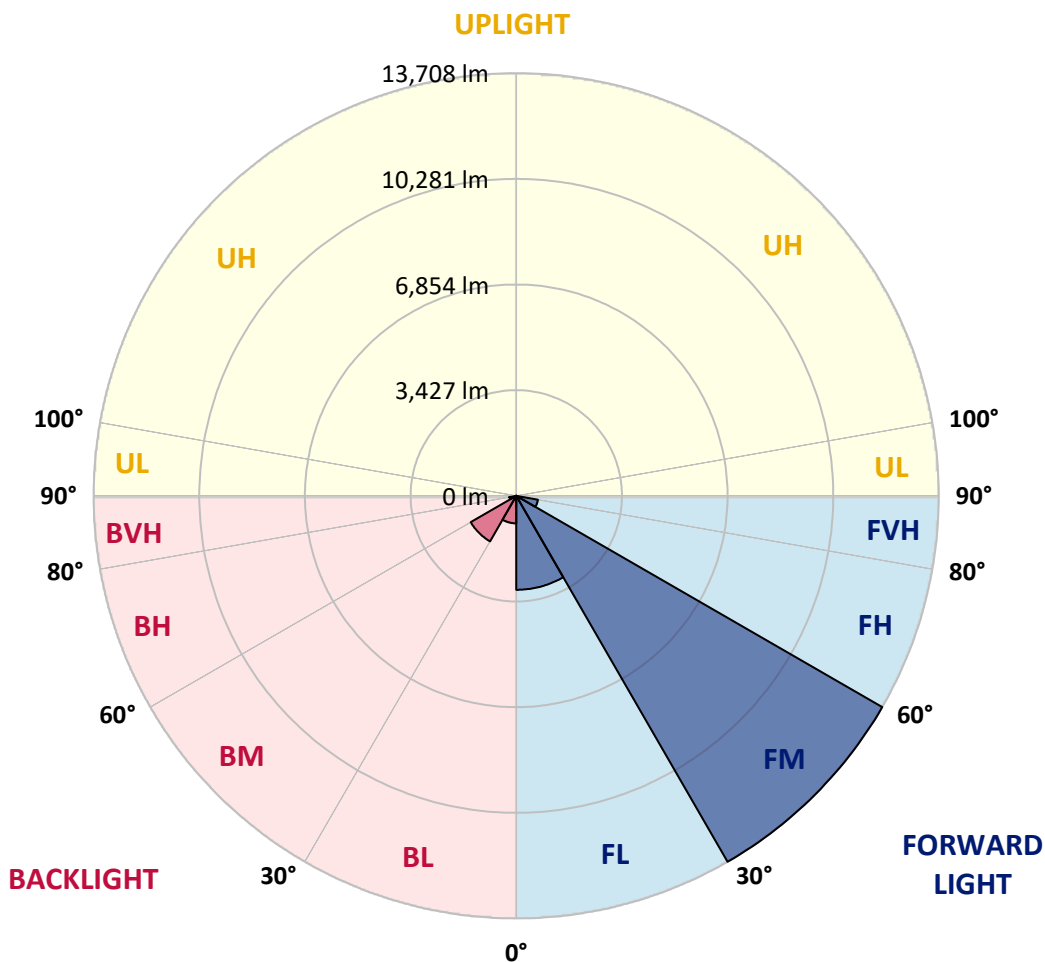
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.8	15.0			
FM (30°-60°)	13708.2	67.4			
FH (60°-80°)	715.0	3.5			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	893.2	4.4	B2/1000		
BM (30°-60°)	1705.2	8.4	B2/2500		
BH (60°-80°)	224.2	1.1	B1/500		G1/500
BVH (80°-90°)	15.8	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°	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2
2.5°	2756.8	2736.7	2693.3	2613.1	2579.7	2499.5	2452.7	2362.5	2305.7	2242.2	2172.0
5°	3882.9	3779.3	3715.8	3625.6	3361.6	3197.8	2927.2	2696.6	2589.7	2472.7	2312.3
7.5°	5045.7	4978.9	4892.0	4698.2	4517.8	4176.9	3712.4	3204.5	2987.3	2786.8	2469.4
10°	6008.1	5821.0	5810.9	5667.2	5470.1	5062.4	4504.4	3872.8	3485.2	3191.2	2693.3
12.5°	6679.7	6509.3	6586.2	6569.5	6385.7	6011.4	5366.5	4531.1	4126.8	3669.0	2923.8
15°	7291.2	7221.1	7197.7	7177.6	7104.1	6826.8	6248.7	5333.1	4748.3	4197.0	3184.5
17.5°	7889.4	7708.9	7795.8	7812.5	7805.8	7555.2	7013.9	6095.0	5406.6	4755.0	3458.5
20°	8420.7	8437.4	8320.4	8297.0	8277.0	8267.0	7739.0	6850.1	6215.3	5339.8	3816.0
22.5°	9102.3	8985.4	9089.0	9022.1	8891.8	8811.6	8407.3	7518.5	6917.0	6044.8	4180.3
25°	9907.6	10001.2	9757.3	9730.5	9586.9	9309.5	8945.3	8267.0	7592.0	6699.8	4574.6
27.5°	10900.1	10736.3	10672.9	10525.8	10265.2	10148.2	9720.5	9038.8	8407.3	7388.1	4955.5
30°	11752.2	11708.7	11391.3	11217.5	10990.3	10987.0	10388.8	10084.7	9469.9	8467.4	5480.1
32.5°	12447.2	12256.7	12139.8	12019.5	11835.7	11885.8	11381.3	11220.9	10602.7	9469.9	6098.3
35°	12911.7	12774.7	12704.5	12520.7	12467.3	12691.1	12480.6	12413.8	11905.9	10880.0	6823.4
37.5°	13058.7	13102.2	13088.8	12858.2	12971.8	13576.7	13847.3	13673.6	13406.2	12367.0	7608.7
40°	13189.0	13219.1	13152.3	13422.9	13747.1	14435.4	15414.5	15127.1	15026.9	13874.0	8701.4
42.5°	13262.5	13239.2	13239.2	13707.0	14198.2	15581.6	16928.2	16737.7	16660.9	15478.0	9964.5
45°	12945.1	12717.9	12961.8	13596.7	14585.8	16146.3	18137.8	18401.8	18291.6	17386.0	11441.4
47.5°	11758.9	11899.2	12036.2	12885.0	14114.6	15972.5	18879.7	19778.5	19982.4	18989.9	12410.5
50°	9964.5	9934.4	10218.4	11287.7	12781.4	15224.0	18736.0	20176.2	20547.1	19471.1	12614.3
52.5°	7247.8	7468.3	7775.7	8838.4	10609.4	13285.9	16881.4	19150.3	19644.9	18879.7	12480.6
55°	4220.4	3976.4	4668.1	5567.0	7237.8	10021.3	14271.7	16975.0	17890.6	17803.7	11805.6
57.5°	1690.8	1637.4	1874.6	2526.2	3775.9	6211.9	10378.8	13947.6	15414.5	16306.7	10375.5
60°	741.8	725.1	852.1	1029.2	1543.8	2863.7	5677.3	8674.6	10205.0	11394.6	7140.9
62.5°	534.6	528.0	591.5	654.9	815.3	1246.4	2385.9	3495.2	4357.4	5262.9	3197.8
65°	431.1	447.8	491.2	524.6	601.5	691.7	842.1	972.4	1192.9	1236.4	705.1
67.5°	350.9	364.2	404.3	441.1	454.4	374.3	387.6	340.8	340.8	304.1	243.9
70°	257.3	260.6	307.4	350.9	280.7	150.4	264.0	264.0	237.2	227.2	207.2
72.5°	190.5	193.8	230.6	217.2	110.3	93.6	193.8	213.9	193.8	183.8	167.1
75°	140.3	143.7	120.3	50.1	46.8	60.1	113.6	147.0	140.3	137.0	127.0
77.5°	26.7	20.0	16.7	23.4	33.4	50.1	73.5	90.2	93.6	100.2	93.6
80°	3.3	3.3	10.0	20.0	36.8	53.5	76.9	86.9	90.2	93.6	86.9
82.5°	0.0	3.3	10.0	20.0	36.8	50.1	66.8	76.9	83.5	86.9	83.5
85°	0.0	3.3	6.7	16.7	30.1	36.8	33.4	23.4	20.0	23.4	16.7
87.5°	0.0	0.0	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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°	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2	2105.2
2.5°	2131.9	2118.5	2071.8	2021.6	1978.2	1998.2	1978.2	1961.5	1968.2	1961.5	1954.8
5°	2248.9	2188.7	2088.5	2045.0	2008.3	2004.9	1994.9	1991.6	1994.9	1994.9	1964.8
7.5°	2359.1	2262.2	2155.3	2108.5	2065.1	2068.4	2045.0	2045.0	2041.7	2025.0	2018.3
10°	2526.2	2395.9	2258.9	2175.3	2121.9	2111.8	2088.5	2065.1	2065.1	2065.1	2031.7
12.5°	2710.0	2546.2	2359.1	2262.2	2198.7	2148.6	2111.8	2105.2	2068.4	2061.7	2045.0
15°	2870.4	2663.2	2426.0	2292.3	2212.1	2145.3	2088.5	2051.7	2035.0	2025.0	2011.6
17.5°	3027.4	2763.4	2462.7	2292.3	2205.4	2128.6	2068.4	2035.0	1994.9	2001.6	1974.8
20°	3237.9	2870.4	2472.7	2248.9	2141.9	2068.4	1988.2	1971.5	1948.1	1928.1	1934.7
22.5°	3441.8	2947.2	2442.7	2195.4	2041.7	1954.8	1914.7	1894.6	1884.6	1867.9	1844.5
25°	3625.6	3030.8	2395.9	2098.5	1934.7	1871.3	1834.5	1831.2	1807.8	1807.8	1764.3
27.5°	3812.7	3060.8	2315.7	1984.9	1841.2	1804.4	1787.7	1781.0	1771.0	1747.6	1717.5
30°	4026.5	3070.9	2198.7	1867.9	1757.6	1717.5	1740.9	1757.6	1714.2	1670.8	1684.1
32.5°	4203.6	3047.5	2058.4	1757.6	1697.5	1677.4	1724.2	1740.9	1690.8	1644.0	1620.6
35°	4417.5	2990.7	1921.4	1670.8	1637.4	1677.4	1717.5	1717.5	1617.3	1560.5	1547.1
37.5°	4741.6	2927.2	1794.4	1597.3	1573.9	1657.4	1710.9	1674.1	1517.1	1446.9	1430.2
40°	5089.2	2887.1	1670.8	1523.7	1540.4	1624.0	1654.1	1540.4	1380.1	1336.6	1323.2
42.5°	5593.7	2806.9	1560.5	1460.3	1510.4	1577.2	1577.2	1373.4	1313.2	1289.8	1286.5
45°	6221.9	2750.1	1463.6	1406.8	1466.9	1483.6	1430.2	1286.5	1243.1	1236.4	1239.7
47.5°	6529.4	2639.8	1363.3	1343.3	1386.7	1390.1	1249.7	1216.3	1179.6	1169.5	1162.9
50°	6482.6	2442.7	1233.0	1259.8	1319.9	1286.5	1139.5	1146.1	1112.7	1109.4	1092.7
52.5°	6155.1	2131.9	1102.7	1166.2	1233.0	1136.1	1049.2	1042.6	1042.6	999.1	982.4
55°	5456.7	1717.5	945.7	1025.9	1106.0	955.7	932.3	925.6	908.9	868.8	858.8
57.5°	4320.6	1259.8	711.7	798.6	939.0	812.0	808.7	778.6	735.1	705.1	705.1
60°	2569.6	725.1	447.8	487.9	621.5	658.3	731.8	718.4	644.9	598.1	584.8
62.5°	1172.9	374.3	284.0	290.7	334.2	427.7	574.7	665.0	561.4	481.2	474.5
65°	394.3	277.3	233.9	223.9	230.6	257.3	344.2	471.2	447.8	370.9	357.5
67.5°	240.6	247.3	220.5	203.8	203.8	200.5	197.2	213.9	264.0	257.3	260.6
70°	207.2	227.2	203.8	183.8	177.1	167.1	140.3	117.0	100.2	117.0	123.6
72.5°	167.1	180.4	173.8	157.1	140.3	127.0	100.2	76.9	56.8	50.1	50.1
75°	123.6	133.7	140.3	120.3	106.9	90.2	73.5	50.1	30.1	20.0	20.0
77.5°	90.2	100.2	103.6	93.6	80.2	63.5	46.8	33.4	16.7	6.7	6.7
80°	76.9	90.2	100.2	93.6	83.5	60.1	43.4	23.4	13.4	3.3	3.3
82.5°	73.5	90.2	100.2	90.2	80.2	56.8	43.4	26.7	10.0	3.3	3.3
85°	16.7	23.4	30.1	36.8	43.4	43.4	33.4	20.0	10.0	3.3	3.3
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.3	3.3	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)