

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: P652076

Luminaire Tested: **GALN-SA8A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652076  
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-SA8A-840-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 20539.7 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

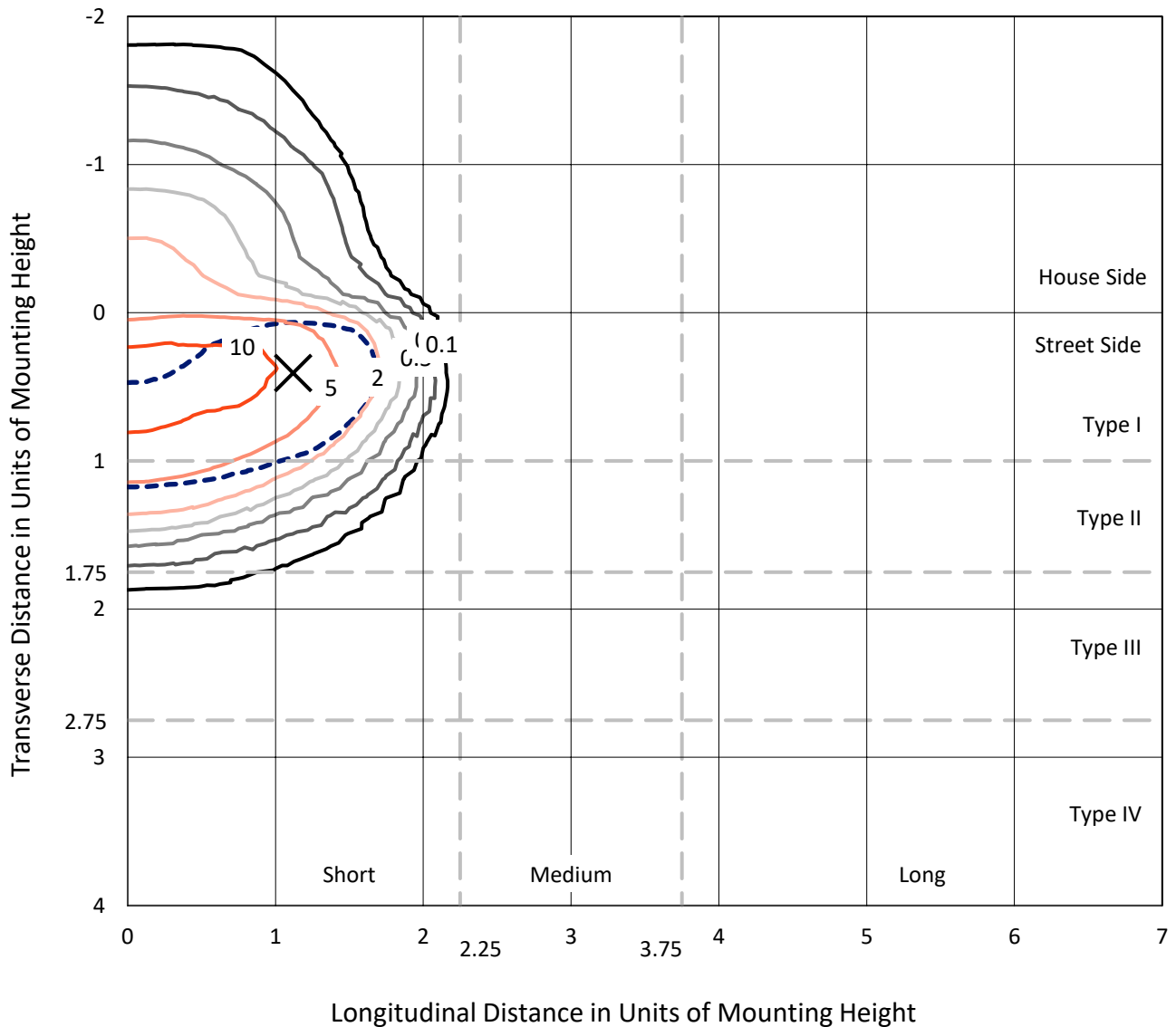
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

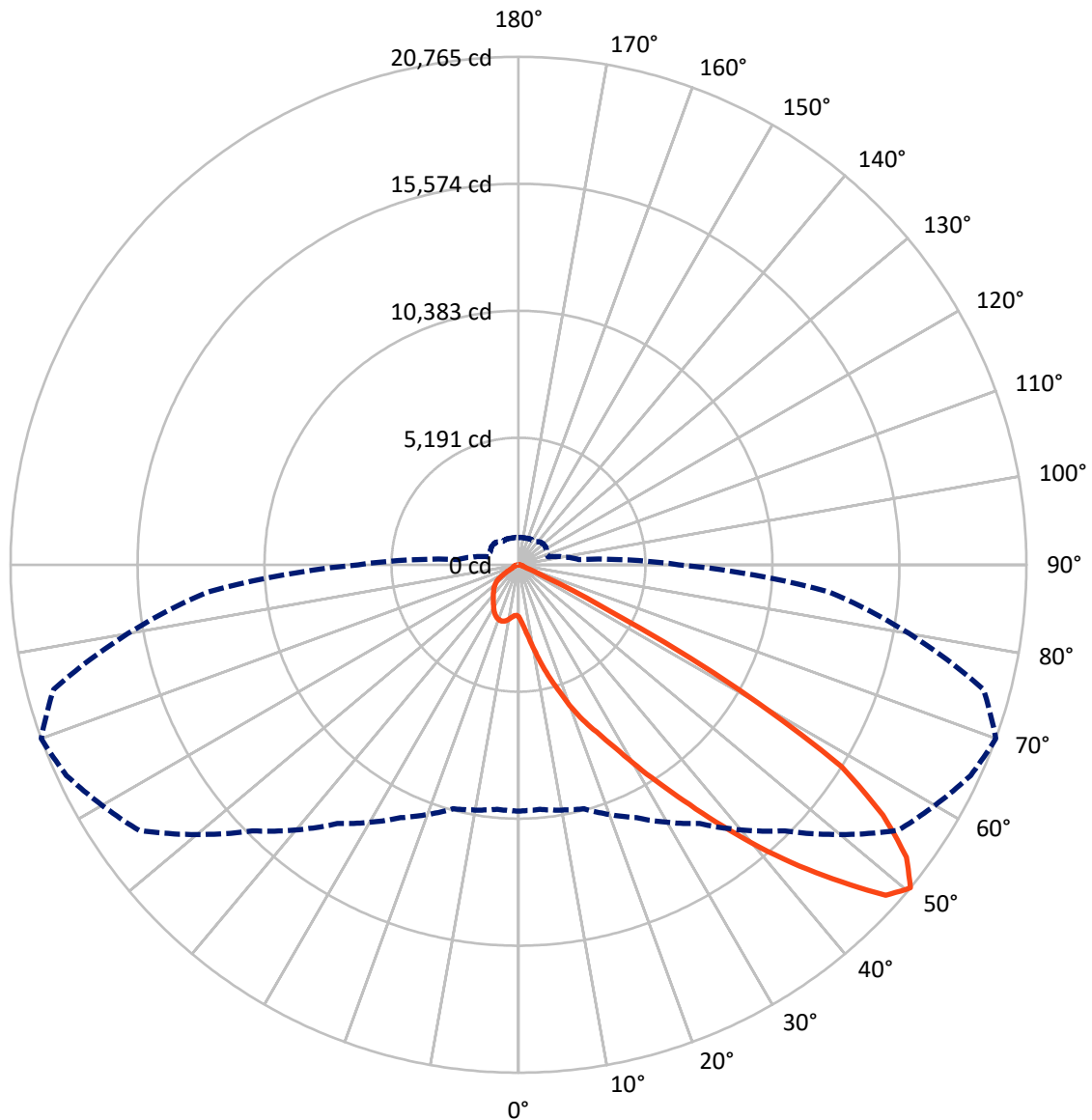
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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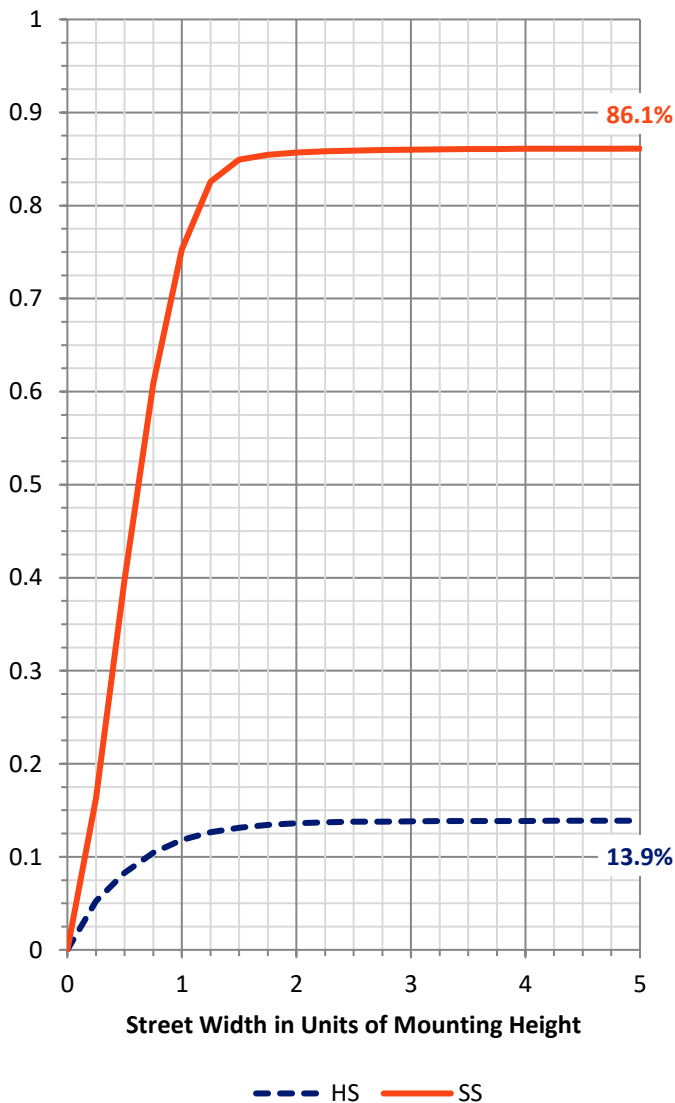
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2868.5	0.0	2868.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17671.2	0.0	17671.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20539.7	0.0	20539.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.3
10°-20°	1196.7	5.8
20°-30°	2510.5	12.2
30°-40°	4327.2	21.1
40°-50°	6324.2	30.8
50°-60°	4925.5	24.0
60°-70°	834.5	4.1
70°-80°	114.6	0.6
80°-90°	29.7	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°	20539.7	100.0
0°-180°	20539.7	100.0

**Coefficient of Utilization**



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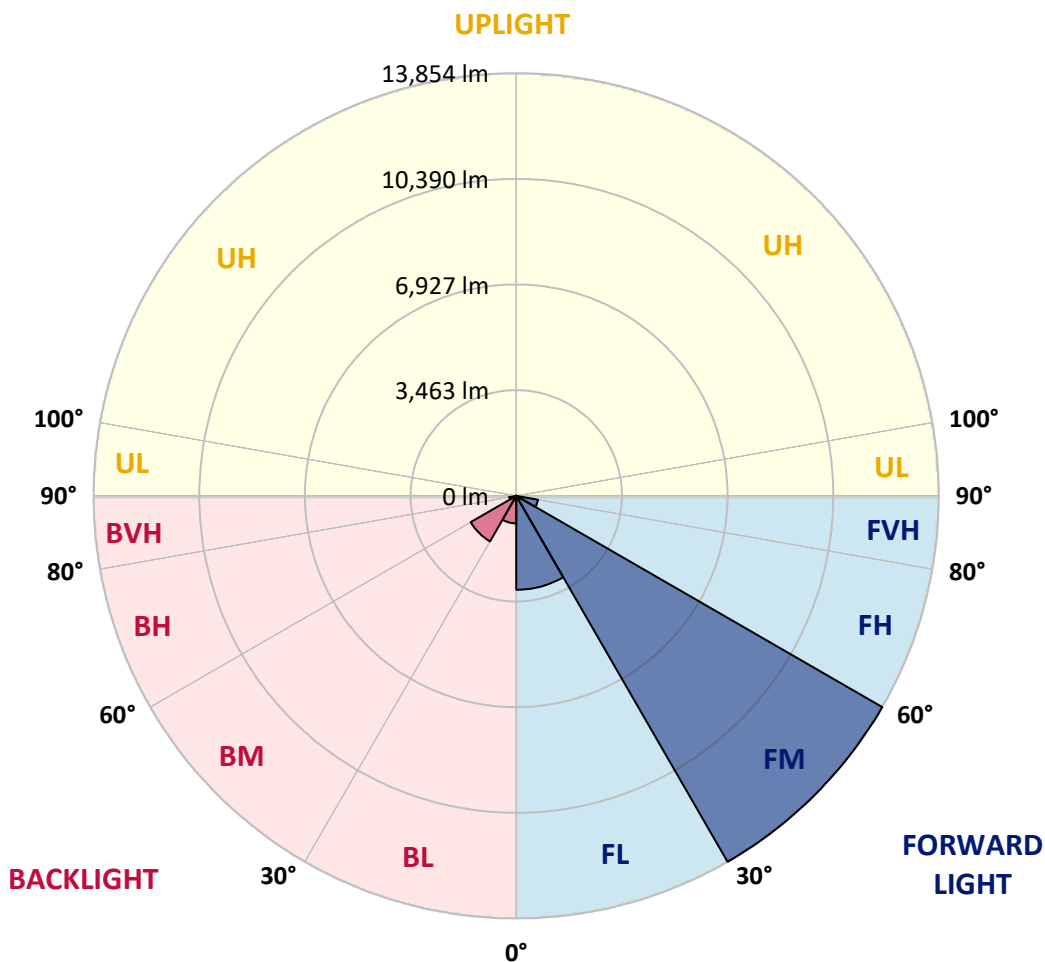
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3081.2	15.0			
FM (30°-60°)	13853.7	67.4			
FH (60°-80°)	722.6	3.5			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	902.7	4.4	B2/1000		
BM (30°-60°)	1723.3	8.4	B2/2500		
BH (60°-80°)	226.6	1.1	B1/500		G1/500
BVH (80°-90°)	16.0	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°	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5
2.5°	2786.1	2765.8	2721.9	2640.8	2607.0	2526.0	2478.8	2387.5	2330.2	2266.0	2195.1
5°	3924.1	3819.4	3755.2	3664.1	3397.3	3231.8	2958.2	2725.3	2617.2	2498.9	2336.9
7.5°	5099.2	5031.7	4943.9	4748.0	4565.7	4221.2	3751.9	3238.5	3019.0	2816.4	2495.6
10°	6071.9	5882.7	5872.6	5727.4	5528.1	5116.1	4552.2	3913.9	3522.2	3225.1	2721.9
12.5°	6750.6	6578.4	6656.1	6639.2	6453.5	6075.2	5423.4	4579.2	4170.6	3708.0	2954.9
15°	7368.6	7297.7	7274.1	7253.8	7179.5	6899.2	6315.0	5389.7	4798.7	4241.5	3218.3
17.5°	7973.1	7790.8	7878.6	7895.5	7888.7	7635.4	7088.4	6159.7	5464.0	4805.5	3495.2
20°	8510.1	8526.9	8408.7	8385.1	8364.8	8354.7	7821.1	6922.9	6281.3	5396.4	3856.6
22.5°	9198.9	9080.8	9185.5	9118.0	8986.2	8905.2	8496.5	7598.3	6990.4	6109.0	4224.6
25°	10012.8	10107.4	9860.9	9833.8	9688.7	9408.4	9040.2	8354.7	7672.5	6770.9	4623.1
27.5°	11015.8	10850.3	10786.2	10637.6	10374.2	10256.0	9823.7	9134.8	8496.5	7466.6	5008.1
30°	11876.9	11833.0	11512.2	11336.6	11107.0	11103.6	10499.1	10191.8	9570.4	8557.3	5538.3
32.5°	12579.3	12386.8	12268.7	12147.1	11961.4	12012.0	11502.1	11340.0	10715.3	9570.4	6163.0
35°	13048.8	12910.3	12839.4	12653.6	12599.6	12825.8	12613.1	12545.5	12032.3	10995.5	6895.9
37.5°	13197.3	13241.2	13227.8	12994.7	13109.5	13720.7	13994.3	13818.7	13548.5	12498.3	7689.4
40°	13329.0	13359.5	13291.9	13565.4	13893.0	14588.7	15578.1	15287.7	15186.4	14021.3	8793.7
42.5°	13403.4	13379.7	13379.7	13852.4	14348.9	15747.0	17107.9	16915.5	16837.7	15642.3	10070.2
45°	13082.5	12852.9	13099.4	13741.0	14740.6	16317.7	18330.4	18597.2	18485.7	17570.6	11562.8
47.5°	11883.7	12025.5	12164.0	13021.7	14264.5	16142.1	19080.1	19988.5	20194.5	19191.5	12542.2
50°	10070.2	10039.9	10326.9	11407.5	12917.0	15385.7	18934.9	20390.4	20765.2	19677.8	12748.2
52.5°	7324.7	7547.6	7858.3	8932.2	10722.0	13427.0	17060.6	19353.6	19853.4	19080.1	12613.1
55°	4265.1	4018.6	4717.7	5626.1	7314.6	10127.7	14423.2	17155.2	18080.5	17992.7	11930.9
57.5°	1708.7	1654.8	1894.5	2553.0	3816.0	6277.8	10489.0	14095.6	15578.1	16479.8	10485.6
60°	749.7	732.8	861.1	1040.1	1560.1	2894.1	5737.6	8766.7	10313.4	11515.6	7216.6
62.5°	540.3	533.5	597.7	661.9	824.0	1259.6	2411.1	3532.4	4403.6	5318.8	3231.8
65°	435.6	452.5	496.4	530.2	607.9	699.0	851.0	982.7	1205.6	1249.5	712.6
67.5°	354.6	368.1	408.6	445.7	459.3	378.2	391.7	344.5	344.5	307.3	246.5
70°	260.0	263.4	310.7	354.6	283.7	152.0	266.8	266.8	239.8	229.7	209.4
72.5°	192.5	195.9	233.0	219.5	111.4	94.5	195.9	216.1	195.9	185.8	168.9
75°	141.8	145.2	121.6	50.6	47.3	60.8	114.8	148.6	141.8	138.4	128.3
77.5°	27.0	20.3	16.9	23.6	33.8	50.6	74.3	91.2	94.5	101.3	94.5
80°	3.4	3.4	10.1	20.3	37.2	54.0	77.7	87.8	91.2	94.5	87.8
82.5°	0.0	3.4	10.1	20.3	37.2	50.6	67.5	77.7	84.4	87.8	84.4
85°	0.0	3.4	6.7	16.9	30.4	37.2	33.8	23.6	20.3	23.6	16.9
87.5°	0.0	0.0	3.4	3.4	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°	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5	2127.5
2.5°	2154.6	2141.0	2093.8	2043.1	1999.2	2019.4	1999.2	1982.3	1989.0	1982.3	1975.5
5°	2272.7	2211.9	2110.7	2066.8	2029.6	2026.2	2016.0	2012.7	2016.0	2016.0	1985.7
7.5°	2384.2	2286.3	2178.2	2130.9	2087.0	2090.4	2066.8	2066.8	2063.3	2046.5	2039.7
10°	2553.0	2421.3	2282.9	2198.5	2144.4	2134.3	2110.7	2087.0	2087.0	2087.0	2053.2
12.5°	2738.7	2573.3	2384.2	2286.3	2222.1	2171.4	2134.3	2127.5	2090.4	2083.6	2066.8
15°	2900.9	2691.5	2451.7	2316.6	2235.5	2168.0	2110.7	2073.5	2056.6	2046.5	2032.9
17.5°	3059.6	2792.8	2488.9	2316.6	2228.8	2151.2	2090.4	2056.6	2016.0	2022.9	1995.8
20°	3272.3	2900.9	2498.9	2272.7	2164.6	2090.4	2009.3	1992.4	1968.8	1948.5	1955.3
22.5°	3478.3	2978.5	2468.6	2218.7	2063.3	1975.5	1935.1	1914.8	1904.6	1887.7	1864.1
25°	3664.1	3062.9	2421.3	2120.7	1955.3	1891.2	1854.0	1850.6	1827.0	1827.0	1783.1
27.5°	3853.1	3093.4	2340.3	2006.0	1860.7	1823.6	1806.7	1799.9	1789.8	1766.2	1735.7
30°	4069.3	3103.5	2222.1	1887.7	1776.3	1735.7	1759.5	1776.3	1732.4	1688.5	1702.0
32.5°	4248.3	3079.8	2080.2	1776.3	1715.6	1695.3	1742.6	1759.5	1708.7	1661.5	1637.8
35°	4464.4	3022.4	1941.8	1688.5	1654.8	1695.3	1735.7	1735.7	1634.5	1577.0	1563.6
37.5°	4791.9	2958.2	1813.4	1614.2	1590.6	1675.0	1729.0	1691.8	1533.1	1462.2	1445.3
40°	5143.2	2917.8	1688.5	1540.0	1556.8	1641.2	1671.7	1556.8	1394.7	1350.8	1337.3
42.5°	5653.1	2836.7	1577.0	1475.8	1526.4	1593.9	1593.9	1388.0	1327.2	1303.6	1300.2
45°	6288.0	2779.3	1479.2	1421.7	1482.5	1499.4	1445.3	1300.2	1256.3	1249.5	1252.8
47.5°	6598.7	2667.8	1377.8	1357.5	1401.4	1404.8	1263.0	1229.2	1192.1	1181.9	1175.2
50°	6551.4	2468.6	1246.1	1273.1	1333.9	1300.2	1151.6	1158.3	1124.5	1121.1	1104.3
52.5°	6220.5	2154.6	1114.4	1178.6	1246.1	1148.2	1060.4	1053.6	1053.6	1009.7	992.8
55°	5514.7	1735.7	955.7	1036.7	1117.8	965.8	942.2	935.4	918.5	878.0	867.9
57.5°	4366.5	1273.1	719.3	807.1	948.9	820.6	817.2	786.8	742.9	712.6	712.6
60°	2596.9	732.8	452.5	493.1	628.1	665.2	739.6	726.0	651.8	604.5	591.0
62.5°	1185.3	378.2	287.0	293.8	337.7	432.3	580.9	672.0	567.3	486.3	479.5
65°	398.5	280.3	236.4	226.2	233.0	260.0	347.8	476.2	452.5	374.8	361.4
67.5°	243.1	249.9	222.9	206.0	206.0	202.6	199.2	216.1	266.8	260.0	263.4
70°	209.4	229.7	206.0	185.8	179.0	168.9	141.8	118.2	101.3	118.2	125.0
72.5°	168.9	182.3	175.6	158.7	141.8	128.3	101.3	77.7	57.4	50.6	50.6
75°	125.0	135.1	141.8	121.6	108.1	91.2	74.3	50.6	30.4	20.3	20.3
77.5°	91.2	101.3	104.7	94.5	81.1	64.2	47.3	33.8	16.9	6.7	6.7
80°	77.7	91.2	101.3	94.5	84.4	60.8	43.9	23.6	13.5	3.4	3.4
82.5°	74.3	91.2	101.3	91.2	81.1	57.4	43.9	27.0	10.1	3.4	3.4
85°	16.9	23.6	30.4	37.2	43.9	43.9	33.8	20.3	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	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)