

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: P531361

Luminaire Tested: **GALN-SA6C-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531361  
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-SA6C-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 20269 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

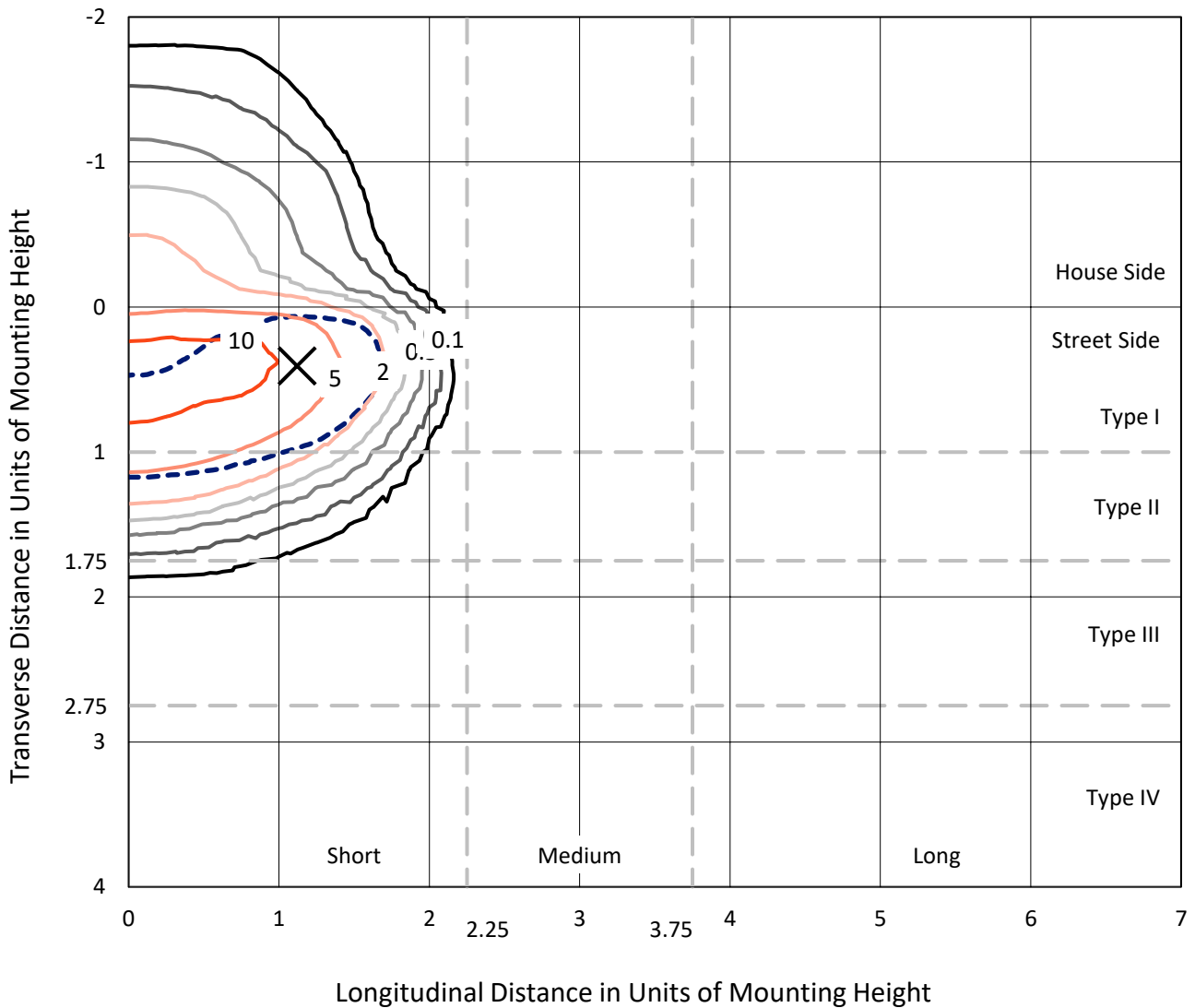
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

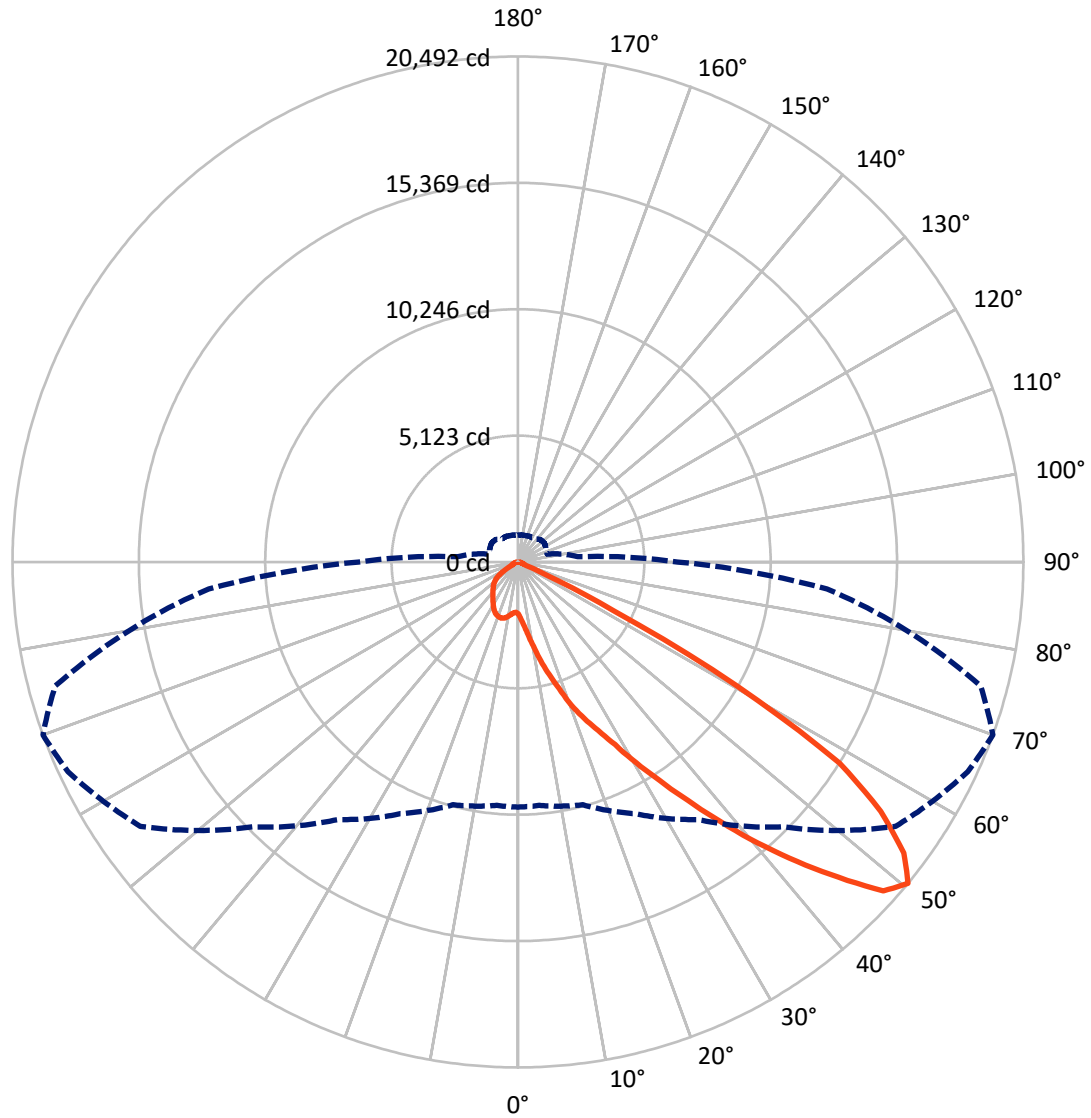
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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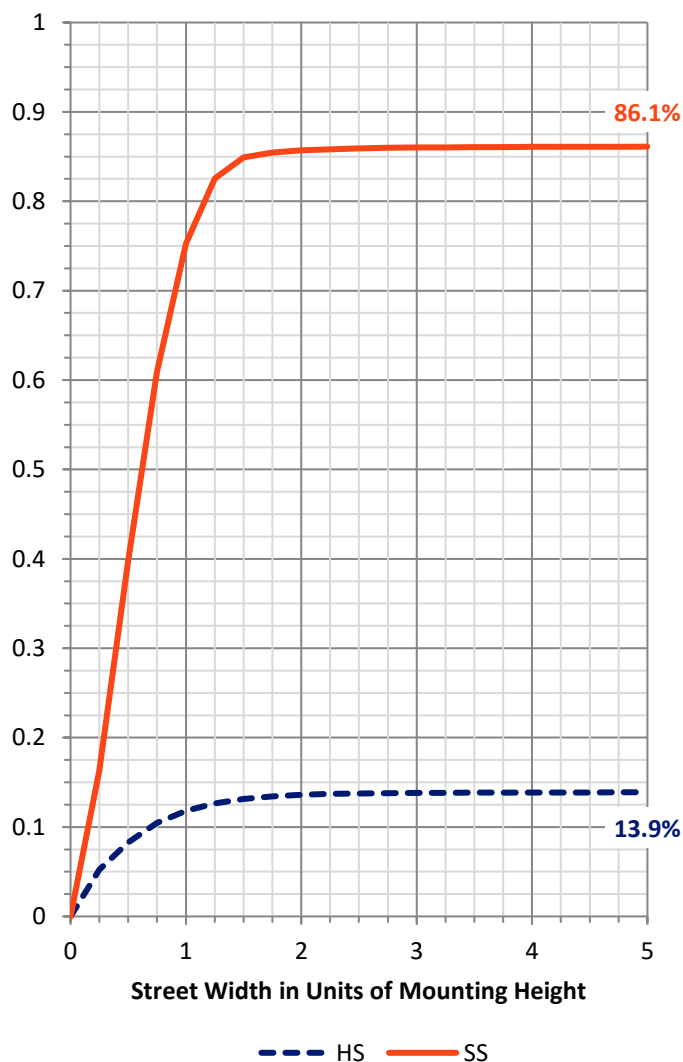
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2830.7	0.0	2830.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	17438.3	0.0	17438.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	20269.0	0.0	20269.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.0	1.3
10°-20°	1180.9	5.8
20°-30°	2477.4	12.2
30°-40°	4270.2	21.1
40°-50°	6240.9	30.8
50°-60°	4860.6	24.0
60°-70°	823.5	4.1
70°-80°	113.1	0.6
80°-90°	29.3	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°	20269.0	100.0
0°-180°	20269.0	100.0

**Coefficient of Utilization**



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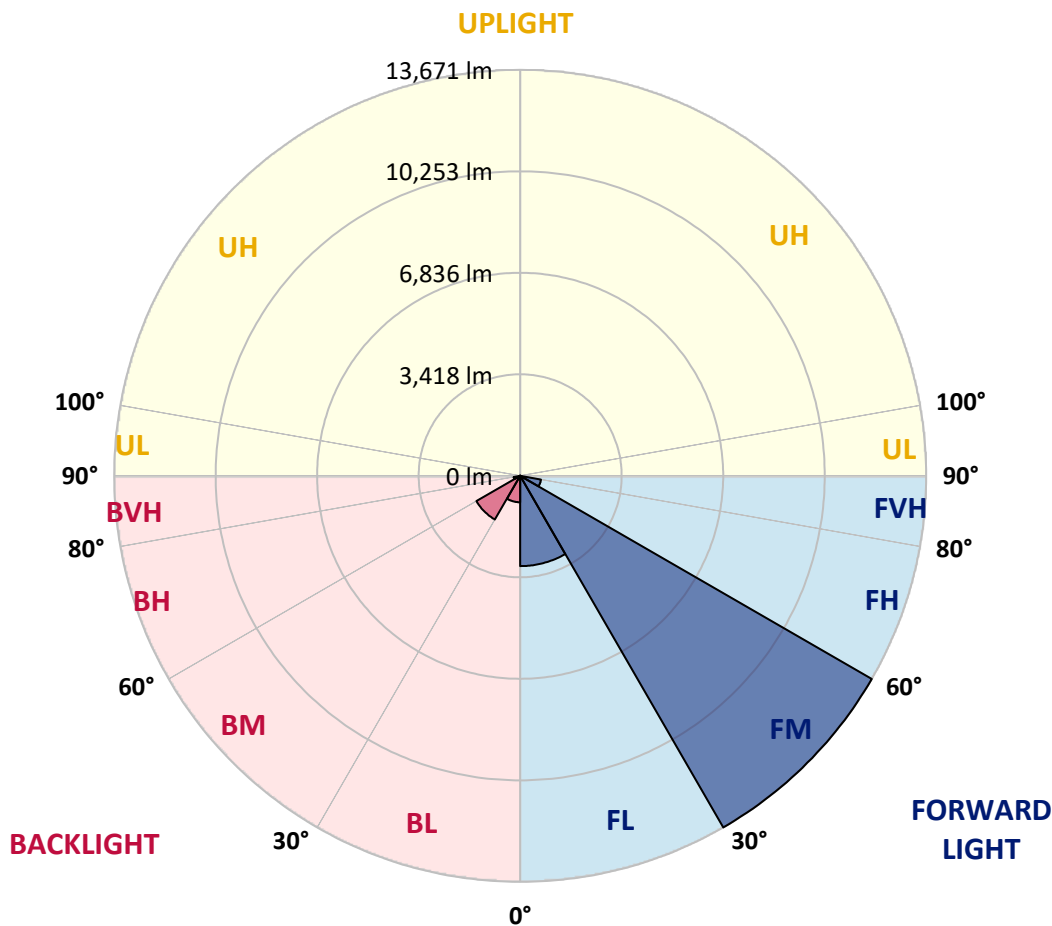
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3040.6	15.0			
FM (30°-60°)	13671.1	67.4			
FH (60°-80°)	713.1	3.5			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	890.8	4.4	B2/1000		
BM (30°-60°)	1700.6	8.4	B2/2500		
BH (60°-80°)	223.6	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°	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5
2.5°	2749.3	2729.3	2686.0	2606.0	2572.7	2492.7	2446.0	2356.1	2299.4	2236.1	2166.1
5°	3872.4	3769.0	3705.7	3615.8	3352.5	3189.2	2919.3	2689.3	2582.7	2466.0	2306.1
7.5°	5032.1	4965.4	4878.8	4685.5	4505.5	4165.6	3702.4	3195.9	2979.2	2779.3	2462.7
10°	5991.8	5805.2	5795.2	5651.9	5455.3	5048.7	4492.2	3862.4	3475.8	3182.5	2686.0
12.5°	6661.6	6491.7	6568.3	6551.7	6368.4	5995.2	5352.0	4518.9	4115.6	3659.1	2915.9
15°	7271.5	7201.5	7178.2	7158.2	7084.9	6808.3	6231.8	5318.7	4735.5	4185.6	3175.9
17.5°	7868.0	7688.1	7774.7	7791.4	7784.7	7534.8	6994.9	6078.5	5392.0	4742.1	3449.1
20°	8397.9	8414.5	8297.9	8274.6	8254.6	8244.6	7718.0	6831.6	6198.4	5325.3	3805.7
22.5°	9077.7	8961.1	9064.4	8997.7	8867.8	8787.8	8384.5	7498.1	6898.3	6028.5	4168.9
25°	9880.8	9974.1	9730.9	9704.2	9560.9	9284.3	8921.1	8244.6	7571.4	6681.6	4562.2
27.5°	10870.6	10707.3	10644.0	10497.3	10237.4	10120.8	9694.2	9014.4	8384.5	7368.1	4942.1
30°	11720.4	11677.0	11360.5	11187.2	10960.6	10957.2	10360.7	10057.5	9444.3	8444.5	5465.3
32.5°	12413.5	12223.6	12106.9	11987.0	11803.7	11853.7	11350.5	11190.5	10574.0	9444.3	6081.8
35°	12876.7	12740.1	12670.1	12486.8	12433.5	12656.8	12446.9	12380.2	11873.7	10850.6	6804.9
37.5°	13023.4	13066.7	13053.4	12823.4	12936.7	13539.9	13809.8	13636.6	13370.0	12333.5	7588.1
40°	13153.3	13183.3	13116.7	13386.6	13709.9	14396.4	15372.8	15086.2	14986.2	13836.5	8677.8
42.5°	13226.7	13203.3	13203.3	13669.9	14159.8	15539.4	16882.4	16692.4	16615.8	15436.1	9937.5
45°	12910.1	12683.5	12926.7	13559.9	14546.3	16102.6	18088.8	18352.0	18242.1	17339.0	11410.4
47.5°	11727.0	11867.0	12003.6	12850.1	14076.4	15929.3	18828.6	19725.0	19928.3	18938.5	12376.9
50°	9937.5	9907.5	10190.8	11257.2	12746.8	15182.8	18685.3	20121.6	20491.5	19418.4	12580.2
52.5°	7228.2	7448.1	7754.7	8814.4	10580.7	13250.0	16835.7	19098.5	19591.7	18828.6	12446.9
55°	4208.9	3965.7	4655.5	5551.9	7218.2	9994.1	14233.1	16929.1	17842.2	17755.5	11773.7
57.5°	1686.2	1632.9	1869.5	2519.4	3765.7	6195.1	10350.7	13909.8	15372.8	16262.6	10347.4
60°	739.8	723.2	849.8	1026.4	1539.6	2855.9	5661.9	8651.1	10177.4	11363.8	7121.5
62.5°	533.2	526.5	589.9	653.2	813.1	1243.0	2379.4	3485.8	4345.6	5248.7	3189.2
65°	429.9	446.6	489.9	523.2	599.8	689.8	839.8	969.8	1189.7	1233.0	703.2
67.5°	349.9	363.2	403.2	439.9	453.2	373.2	386.6	339.9	339.9	303.3	243.3
70°	256.6	259.9	306.6	349.9	279.9	150.0	263.3	263.3	236.6	226.6	206.6
72.5°	190.0	193.3	229.9	216.6	110.0	93.3	193.3	213.3	193.3	183.3	166.6
75°	140.0	143.3	120.0	50.0	46.7	60.0	113.3	146.6	140.0	136.6	126.6
77.5°	26.7	20.0	16.7	23.3	33.3	50.0	73.3	90.0	93.3	100.0	93.3
80°	3.3	3.3	10.0	20.0	36.7	53.3	76.6	86.6	90.0	93.3	86.6
82.5°	0.0	3.3	10.0	20.0	36.7	50.0	66.6	76.6	83.3	86.6	83.3
85°	0.0	3.3	6.7	16.7	30.0	36.7	33.3	23.3	20.0	23.3	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°	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5	2099.5
2.5°	2126.1	2112.8	2066.1	2016.2	1972.8	1992.8	1972.8	1956.2	1962.8	1956.2	1949.5
5°	2242.8	2182.8	2082.8	2039.5	2002.8	1999.5	1989.5	1986.2	1989.5	1989.5	1959.5
7.5°	2352.7	2256.1	2149.5	2102.8	2059.5	2062.8	2039.5	2039.5	2036.2	2019.5	2012.8
10°	2519.4	2389.4	2252.8	2169.5	2116.1	2106.1	2082.8	2059.5	2059.5	2059.5	2026.2
12.5°	2702.7	2539.4	2352.7	2256.1	2192.8	2142.8	2106.1	2099.5	2062.8	2056.1	2039.5
15°	2862.6	2656.0	2419.4	2286.1	2206.1	2139.5	2082.8	2046.1	2029.5	2019.5	2006.2
17.5°	3019.2	2756.0	2456.0	2286.1	2199.4	2122.8	2062.8	2029.5	1989.5	1996.2	1969.5
20°	3229.2	2862.6	2466.0	2242.8	2136.1	2062.8	1982.8	1966.2	1942.8	1922.8	1929.5
22.5°	3432.5	2939.3	2436.1	2189.4	2036.2	1949.5	1909.5	1889.5	1879.5	1862.9	1839.5
25°	3615.8	3022.6	2389.4	2092.8	1929.5	1866.2	1829.5	1826.2	1802.9	1802.9	1759.6
27.5°	3802.4	3052.6	2309.4	1979.5	1836.2	1799.5	1782.9	1776.2	1766.2	1742.9	1712.9
30°	4015.7	3062.6	2192.8	1862.9	1752.9	1712.9	1736.2	1752.9	1709.6	1666.2	1679.6
32.5°	4192.3	3039.2	2052.8	1752.9	1692.9	1672.9	1719.6	1736.2	1686.2	1639.6	1616.3
35°	4405.6	2982.6	1916.2	1666.2	1632.9	1672.9	1712.9	1712.9	1612.9	1556.3	1542.9
37.5°	4728.8	2919.3	1789.5	1592.9	1569.6	1652.9	1706.2	1669.6	1513.0	1443.0	1426.3
40°	5075.4	2879.3	1666.2	1519.6	1536.3	1619.6	1649.6	1536.3	1376.3	1333.0	1319.7
42.5°	5578.6	2799.3	1556.3	1456.3	1506.3	1572.9	1572.9	1369.7	1309.7	1286.3	1283.0
45°	6205.1	2742.6	1459.6	1403.0	1463.0	1479.6	1426.3	1283.0	1239.7	1233.0	1236.4
47.5°	6511.7	2632.7	1359.7	1339.7	1383.0	1386.3	1246.4	1213.0	1176.4	1166.4	1159.7
50°	6465.0	2436.1	1229.7	1256.3	1316.3	1283.0	1136.4	1143.0	1109.7	1106.4	1089.7
52.5°	6138.4	2126.1	1099.7	1163.0	1229.7	1133.0	1046.4	1039.7	1039.7	996.4	979.8
55°	5442.0	1712.9	943.1	1023.1	1103.1	953.1	929.8	923.1	906.4	866.4	856.5
57.5°	4308.9	1256.3	709.8	796.5	936.4	809.8	806.5	776.5	733.1	703.2	703.2
60°	2562.7	723.2	446.6	486.5	619.8	656.5	729.8	716.5	643.2	596.5	583.2
62.5°	1169.7	373.2	283.3	289.9	333.2	426.6	573.2	663.2	559.9	479.9	473.2
65°	393.2	276.6	233.3	223.3	229.9	256.6	343.2	469.9	446.6	369.9	356.6
67.5°	239.9	246.6	219.9	203.3	203.3	199.9	196.6	213.3	263.3	256.6	259.9
70°	206.6	226.6	203.3	183.3	176.6	166.6	140.0	116.6	100.0	116.6	123.3
72.5°	166.6	180.0	173.3	156.6	140.0	126.6	100.0	76.6	56.7	50.0	50.0
75°	123.3	133.3	140.0	120.0	106.6	90.0	73.3	50.0	30.0	20.0	20.0
77.5°	90.0	100.0	103.3	93.3	80.0	63.3	46.7	33.3	16.7	6.7	6.7
80°	76.6	90.0	100.0	93.3	83.3	60.0	43.3	23.3	13.3	3.3	3.3
82.5°	73.3	90.0	100.0	90.0	80.0	56.7	43.3	26.7	10.0	3.3	3.3
85°	16.7	23.3	30.0	36.7	43.3	43.3	33.3	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)