

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: P532752

Luminaire Tested: **GALN-SA8A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24495 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

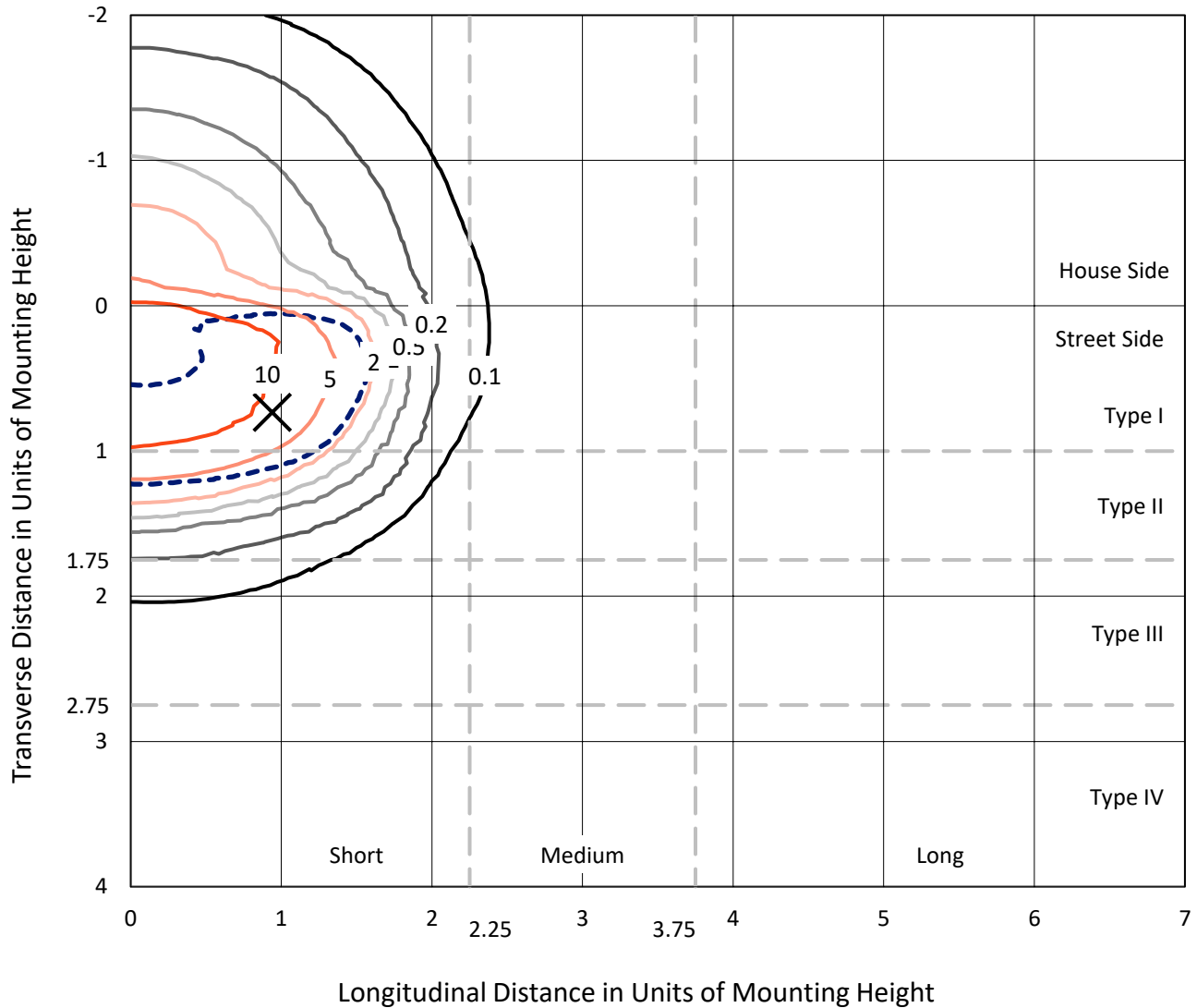
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

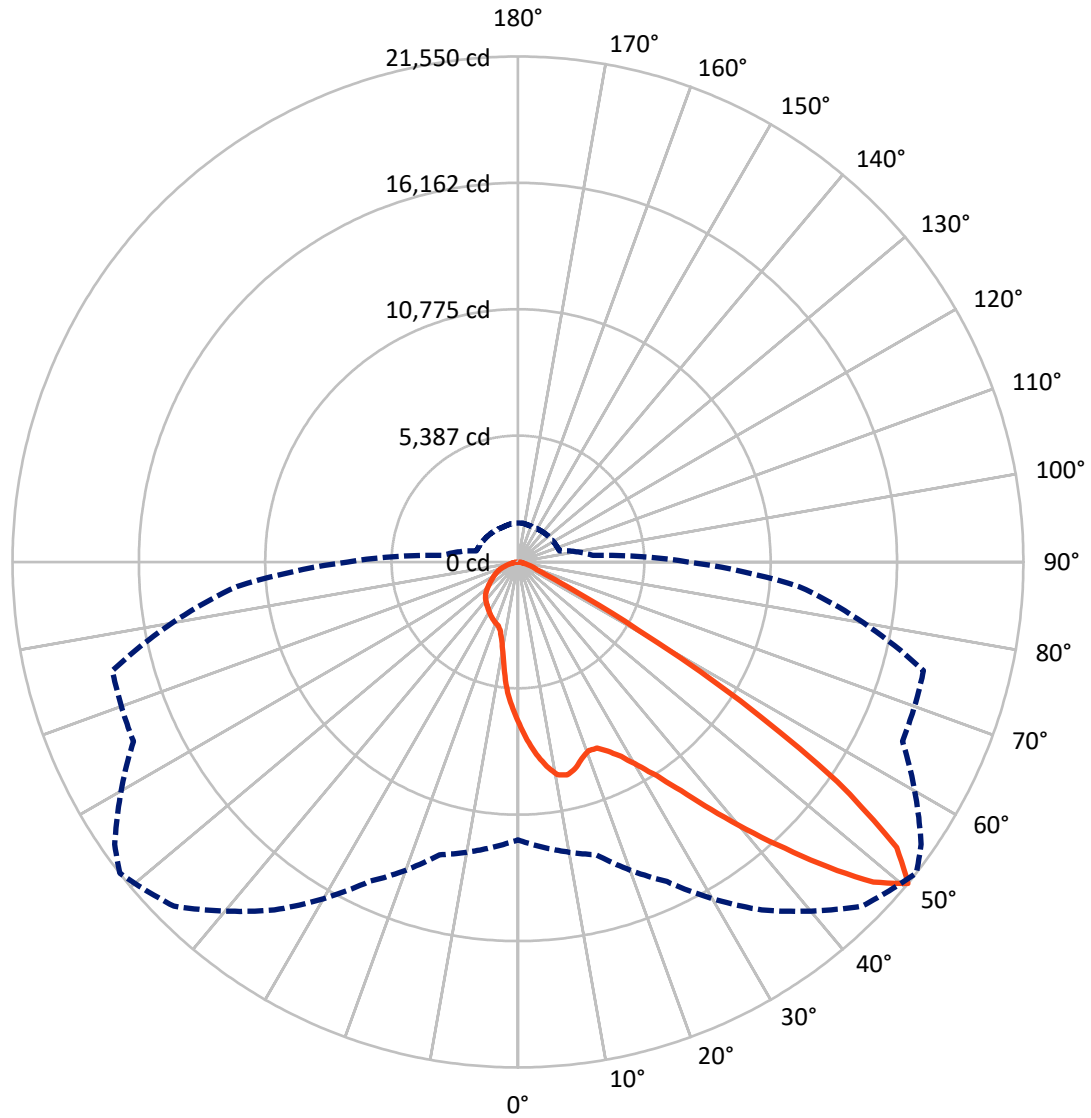
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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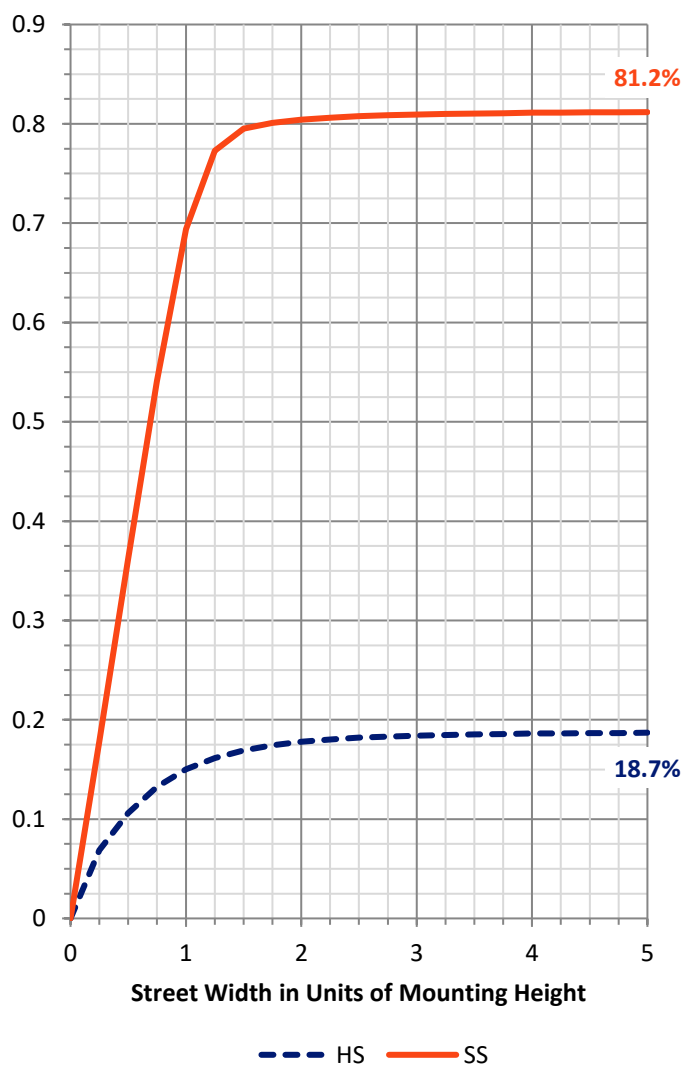
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4604.5	0.0	4604.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	19890.5	0.0	19890.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	24495.0	0.0	24495.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.4	2.6
10°-20°	1705.7	7.0
20°-30°	2873.2	11.7
30°-40°	4821.5	19.7
40°-50°	7375.8	30.1
50°-60°	5377.5	22.0
60°-70°	1196.8	4.9
70°-80°	431.7	1.8
80°-90°	76.4	0.3
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°	24495.0	100.0
0°-180°	24495.0	100.0

**Coefficient of Utilization**



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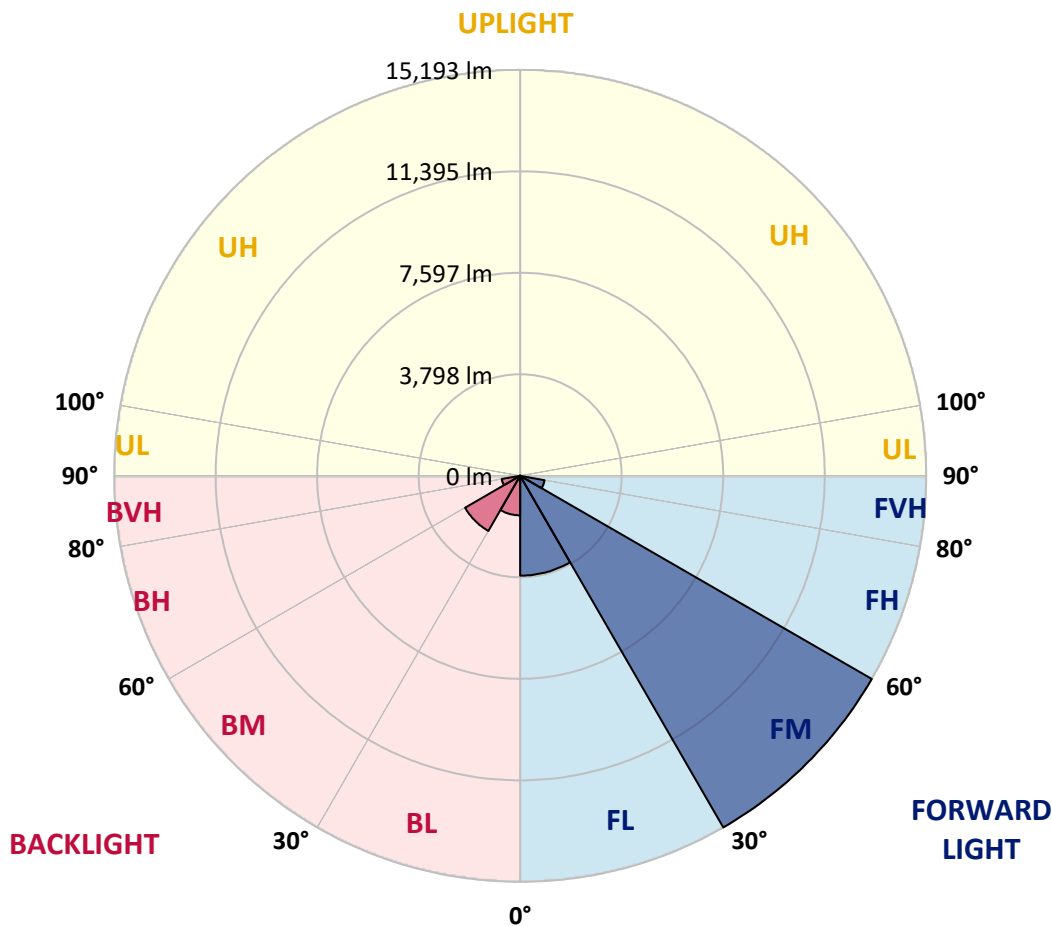
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3736.3	15.3			
FM (30°-60°)	15193.0	62.0			
FH (60°-80°)	926.9	3.8			G1/1800
FVH (80°-90°)	34.2	0.1			G1/100
BL (0°-30°)	1479.1	6.0	B3/2500		
BM (30°-60°)	2381.8	9.7	B2/2500		
BH (60°-80°)	701.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	42.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7
2.5°	8129.8	7973.4	7991.1	7878.9	7757.9	7722.4	7598.5	7480.4	7391.8	7202.9	7028.7
5°	8885.5	8838.3	8767.4	8678.9	8587.4	8363.0	8236.1	8088.5	7763.8	7471.5	7182.2
7.5°	8994.8	8985.9	9024.3	9024.3	9056.7	8971.1	8791.1	8687.7	8342.4	7867.1	7329.8
10°	8227.2	8253.8	8439.8	8681.8	9018.4	9251.6	9222.1	9195.5	8817.6	8168.2	7504.0
12.5°	7616.2	7557.1	7666.4	7873.0	8377.8	8941.6	9322.4	9325.4	9228.0	8649.4	7630.9
15°	7270.8	7312.1	7341.6	7439.0	7819.9	8472.2	9142.4	9340.1	9768.2	8988.8	7831.7
17.5°	7492.2	7353.4	7347.5	7371.2	7566.0	8056.0	8808.8	9148.3	10063.4	9425.7	8079.6
20°	7781.5	7778.5	7695.9	7666.4	7663.4	8100.3	8590.3	9050.8	10219.8	9992.5	8330.6
22.5°	8289.2	8289.2	8153.4	8088.5	7949.7	8306.9	8619.8	8932.8	10479.6	10382.2	8451.6
25°	9139.4	9000.7	8767.4	8608.0	8528.3	8655.3	8932.8	9213.2	10706.9	10795.5	8702.5
27.5°	9924.6	9706.2	9591.1	9316.5	9210.2	9136.4	9390.3	9673.7	10972.6	11439.0	8838.3
30°	10816.1	10777.8	10571.1	10216.9	9954.2	9818.4	10051.6	10332.0	11459.7	12097.3	9151.2
32.5°	12410.2	12061.9	11781.4	11347.5	10919.5	10630.2	10860.4	11046.4	12268.5	12785.1	9493.6
35°	14131.2	14019.1	13534.9	12752.7	12097.3	11837.5	11973.3	12112.1	13210.2	13836.0	10069.3
37.5°	15822.7	15669.2	15270.7	14612.4	13815.4	13287.0	13384.4	13546.7	14267.0	15253.0	10771.9
40°	17039.0	16850.0	16649.3	16551.9	15760.7	15037.5	14981.4	15022.7	15695.8	16581.4	11551.2
42.5°	17127.5	17360.7	17422.7	17815.3	17629.4	17036.0	16690.6	16699.5	17059.6	17895.0	12339.4
45°	16941.5	16726.0	17183.6	18255.2	18869.2	19146.7	18565.1	18491.3	17903.9	18656.7	12732.0
47.5°	14990.3	15049.3	15822.7	17517.2	19291.3	20531.2	20395.4	20150.4	18355.6	18630.1	12670.0
50°	11849.3	12206.5	12923.9	15034.5	18110.5	20749.6	21549.6	20982.8	18086.9	17898.0	12038.3
52.5°	7890.7	8038.3	8510.6	11235.3	14562.2	18547.4	20221.2	20351.1	17839.0	16938.6	11238.3
55°	3512.9	3501.1	4165.3	5868.6	9136.4	14113.5	16522.4	17313.5	16885.5	15961.5	10458.9
57.5°	1487.8	1538.0	1809.6	2535.8	4492.9	8516.5	11194.0	11887.7	12985.9	13106.9	8023.5
60°	1006.6	1012.5	1086.3	1269.4	1880.4	4000.0	5871.5	6704.0	7489.2	7436.1	4256.8
62.5°	791.1	811.8	867.9	941.7	1115.9	1815.5	2627.3	3090.7	3140.9	2642.0	1614.7
65°	676.0	679.0	735.0	797.0	873.8	1056.8	1266.4	1290.0	1304.8	1257.6	1186.7
67.5°	557.9	563.8	608.1	679.0	749.8	808.8	867.9	897.4	965.3	1098.1	1080.4
70°	442.8	451.7	490.0	549.1	614.0	649.4	723.2	749.8	811.8	915.1	956.4
72.5°	336.5	339.5	372.0	413.3	472.3	507.7	569.7	599.3	640.6	729.1	767.5
75°	242.1	250.9	274.5	295.2	304.1	327.7	386.7	419.2	478.2	516.6	519.6
77.5°	126.9	132.8	138.7	138.7	168.3	212.5	250.9	268.6	310.0	339.5	324.7
80°	50.2	53.1	67.9	91.5	118.1	153.5	180.1	188.9	224.4	242.1	250.9
82.5°	29.5	32.5	44.3	64.9	85.6	109.2	129.9	138.7	162.4	183.0	188.9
85°	14.8	17.7	26.6	41.3	56.1	67.9	64.9	62.0	62.0	59.0	62.0
87.5°	5.9	5.9	8.9	8.9	8.9	11.8	14.8	14.8	14.8	17.7	17.7
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°	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7	6904.7
2.5°	6913.6	6795.5	6686.3	6485.6	6267.1	6205.1	5951.2	5859.7	5794.8	5718.0	5694.4
5°	6949.0	6792.6	6441.3	6036.8	5715.1	5301.8	5030.2	4738.0	4525.4	4472.3	4457.5
7.5°	7022.8	6754.2	6149.0	5538.0	4879.7	4318.8	3890.7	3660.5	3456.8	3445.0	3424.3
10°	7105.5	6639.1	5830.2	4870.8	4029.5	3509.9	3253.1	3152.7	3102.6	3090.7	3084.8
12.5°	7173.4	6615.4	5473.0	4221.4	3427.3	3114.4	3037.6	3028.8	3049.4	3055.3	3067.1
15°	7202.9	6521.0	5042.0	3639.8	3052.4	2937.2	2969.7	3005.1	3019.9	3058.3	3028.8
17.5°	7259.0	6399.9	4510.7	3179.3	2842.8	2863.4	2919.5	2960.9	2984.5	3011.0	2972.7
20°	7288.5	6290.7	4011.8	2904.8	2769.0	2807.4	2884.1	2916.6	2946.1	2957.9	2913.6
22.5°	7261.9	6066.4	3571.9	2683.4	2698.1	2748.3	2816.2	2851.6	2833.9	2786.7	2760.1
25°	7191.1	5750.5	3114.4	2541.7	2597.8	2686.3	2739.5	2712.9	2680.4	2653.9	2645.0
27.5°	7188.1	5363.8	2783.7	2411.8	2512.2	2633.2	2615.5	2591.9	2606.6	2586.0	2562.3
30°	7202.9	4988.9	2512.2	2338.0	2450.2	2509.2	2529.9	2506.3	2524.0	2485.6	2497.4
32.5°	7126.1	4622.8	2335.0	2252.4	2376.4	2373.4	2441.3	2459.0	2417.7	2338.0	2349.8
35°	7158.6	4327.6	2184.5	2214.0	2293.7	2293.7	2346.8	2326.2	2217.0	2169.7	2181.5
37.5°	7383.0	4038.3	2110.7	2160.9	2214.0	2237.6	2219.9	2131.3	2104.8	2104.8	2110.7
40°	7595.5	3790.4	2066.4	2149.1	2140.2	2155.0	2025.1	2033.9	2033.9	2036.9	2022.1
42.5°	7784.4	3622.1	2031.0	2078.2	2093.0	2016.2	1936.5	1927.7	1948.3	1945.4	1933.6
45°	7852.3	3483.4	1980.8	1998.5	2010.3	1883.4	1845.0	1827.3	1850.9	1859.8	1871.6
47.5°	7592.6	3368.2	1924.7	1889.3	1865.7	1783.0	1732.8	1700.4	1729.9	1780.1	1791.9
50°	7259.0	3217.7	1836.1	1768.2	1718.1	1682.6	1647.2	1614.7	1635.4	1670.8	1662.0
52.5°	6766.0	2981.5	1724.0	1653.1	1567.5	1576.4	1543.9	1526.2	1538.0	1538.0	1529.1
55°	6063.4	2450.2	1535.0	1484.9	1414.0	1437.6	1443.5	1419.9	1396.3	1417.0	1399.2
57.5°	4138.7	1729.9	1369.7	1369.7	1298.9	1331.4	1328.4	1272.3	1216.2	1222.1	1210.3
60°	2394.1	1378.6	1263.5	1251.6	1177.8	1204.4	1210.3	1171.9	1086.3	1092.2	1080.4
62.5°	1360.9	1177.8	1104.0	1086.3	1071.6	1095.2	1095.2	1045.0	971.2	977.1	965.3
65°	1157.2	1092.2	986.0	983.0	977.1	983.0	959.4	906.3	841.3	814.8	817.7
67.5°	1050.9	1009.6	906.3	879.7	862.0	859.0	814.8	764.6	735.0	711.4	708.5
70°	921.0	888.6	811.8	776.4	758.7	717.3	673.1	640.6	599.3	587.4	599.3
72.5°	729.1	726.2	696.7	658.3	619.9	587.4	549.1	504.8	466.4	457.6	436.9
75°	504.8	510.7	516.6	510.7	478.2	436.9	392.6	357.2	310.0	283.4	277.5
77.5°	330.6	339.5	348.3	336.5	315.9	277.5	248.0	203.7	168.3	147.6	144.6
80°	242.1	253.9	259.8	250.9	227.3	197.8	165.3	129.9	103.3	85.6	85.6
82.5°	186.0	197.8	203.7	188.9	165.3	141.7	118.1	91.5	70.8	56.1	53.1
85°	64.9	62.0	73.8	76.8	91.5	85.6	70.8	53.1	41.3	29.5	26.6
87.5°	17.7	17.7	20.7	20.7	17.7	14.8	14.8	14.8	11.8	8.9	8.9
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)