

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: P533933

Luminaire Tested: **GALN-SA9B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22369 lumens  
Efficiency: N/A  
Efficacy: 61.5 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

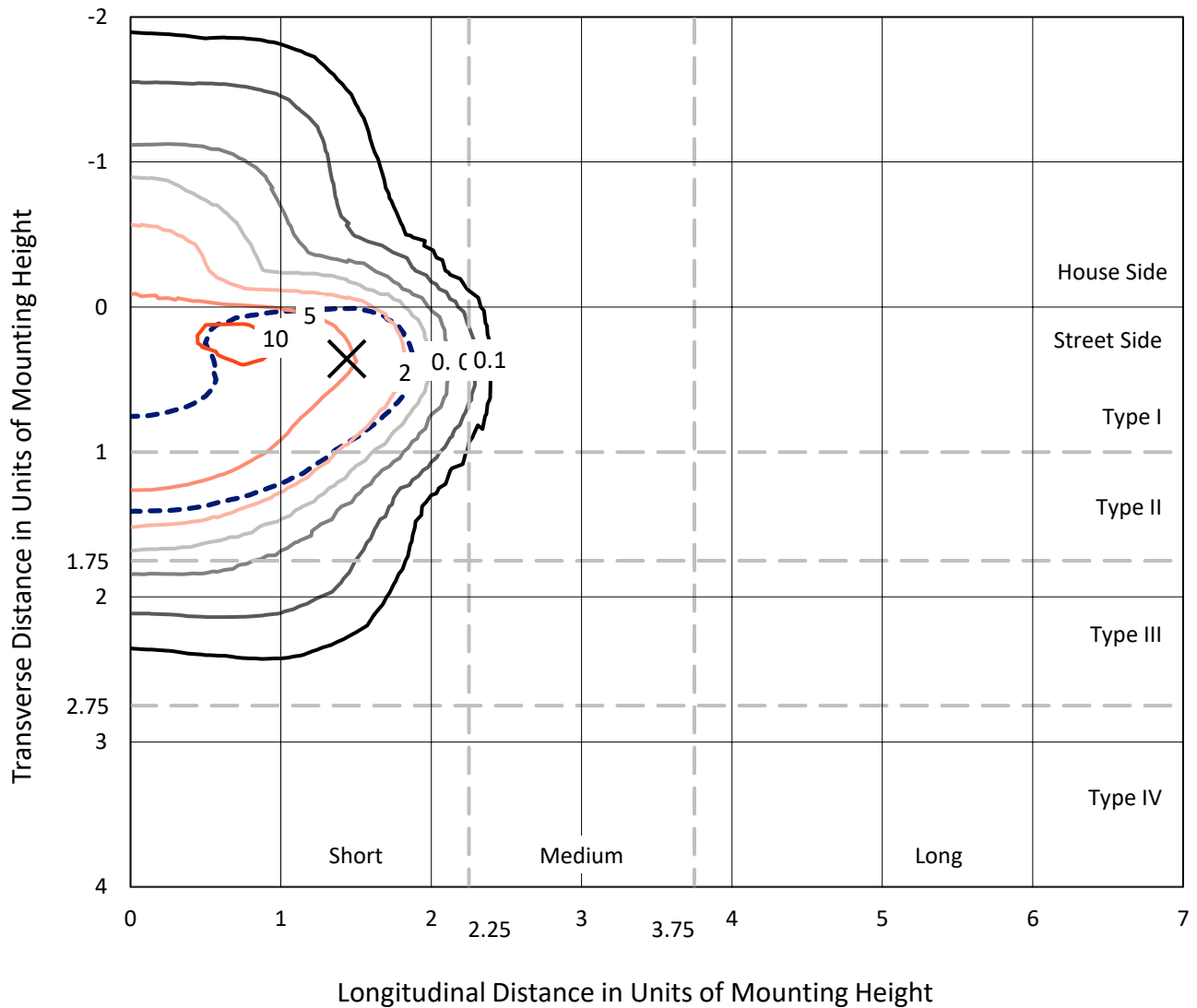
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

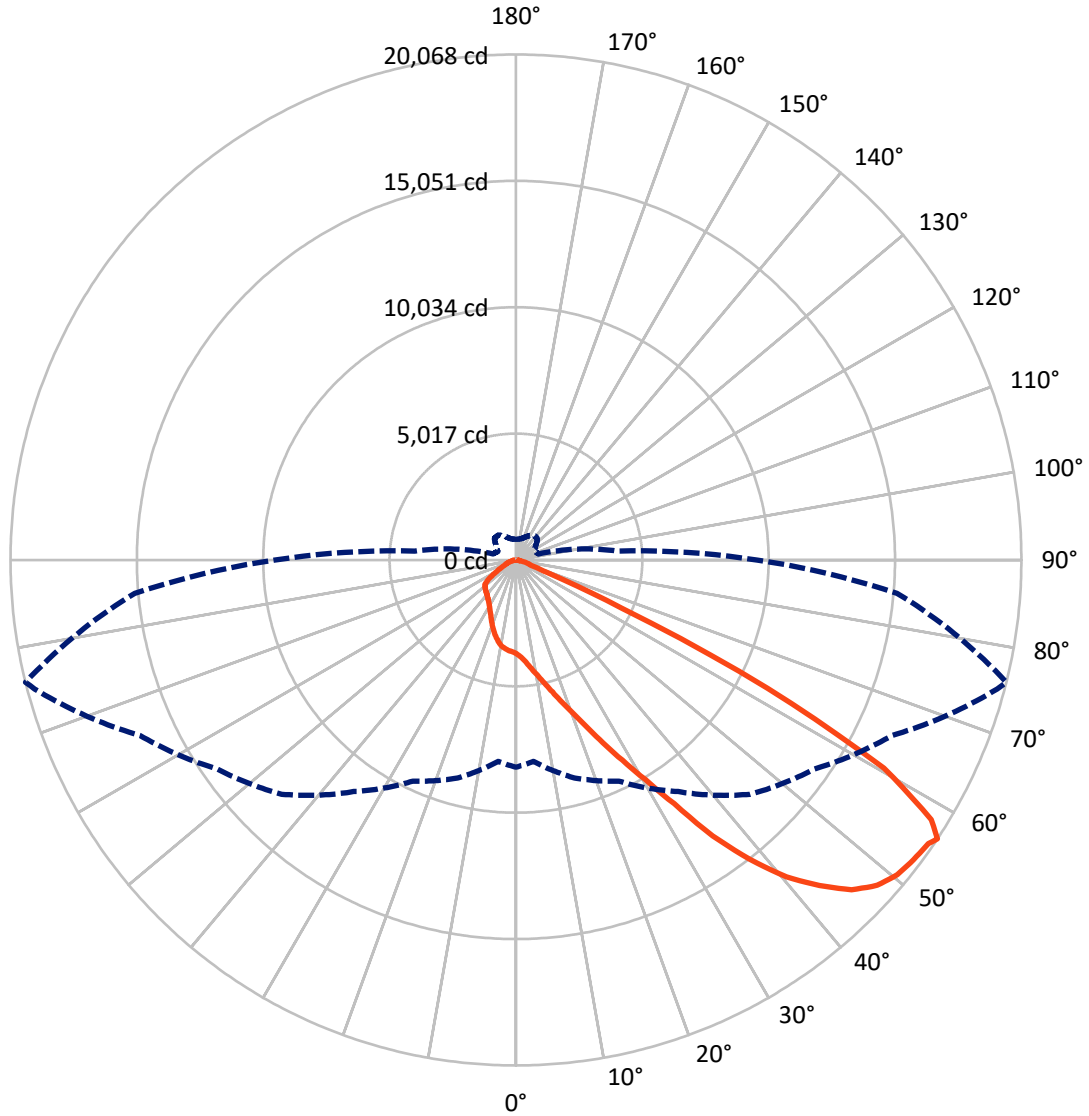
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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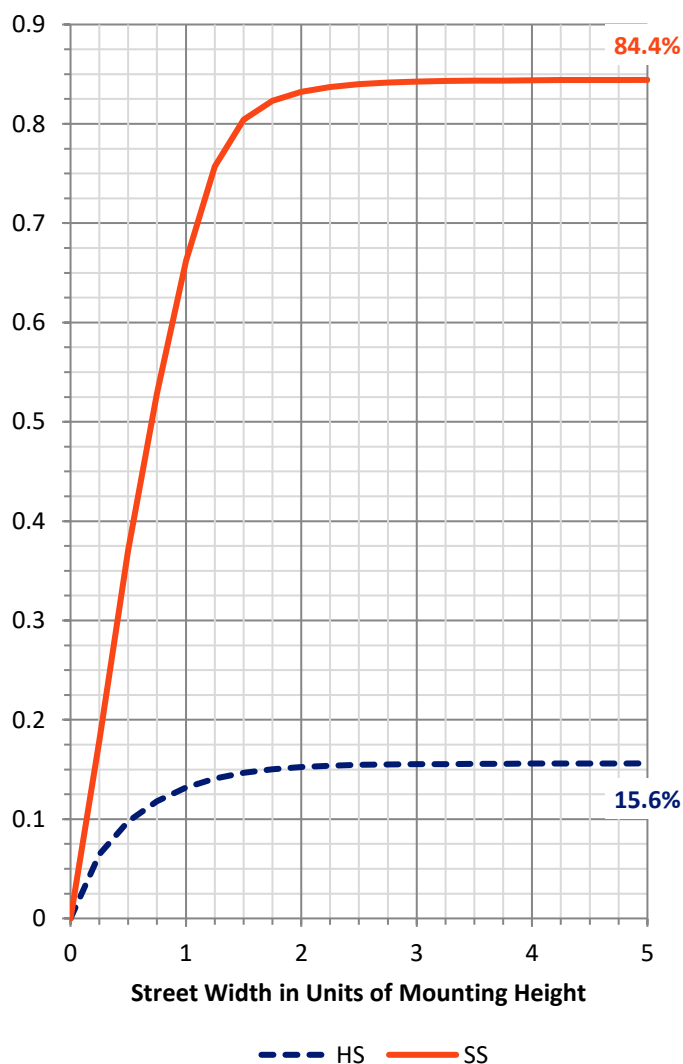
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3514.0	0.0	3514.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	18854.9	0.0	18854.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22369.0	0.0	22369.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.1	1.7
10°-20°	1205.0	5.4
20°-30°	2184.9	9.8
30°-40°	3768.1	16.8
40°-50°	6121.3	27.4
50°-60°	6452.1	28.8
60°-70°	1971.4	8.8
70°-80°	252.7	1.1
80°-90°	38.4	0.2
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°	22369.0	100.0
0°-180°	22369.0	100.0

**Coefficient of Utilization**

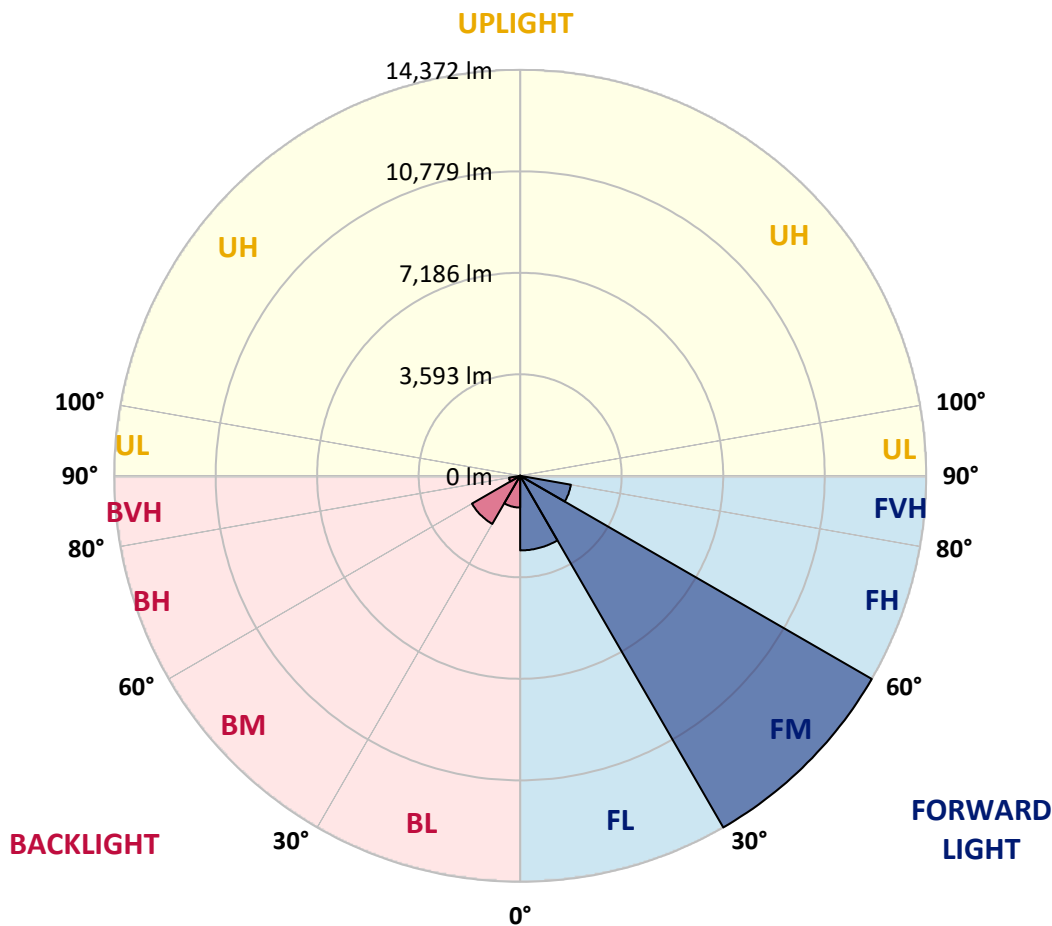


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.9	11.8			
FM (30°-60°)	14372.1	64.2			
FH (60°-80°)	1823.2	8.2			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1124.1	5.0	B3/2500		
BM (30°-60°)	1969.4	8.8	B2/2500		
BH (60°-80°)	400.9	1.8	B1/500		G1/500
BVH (80°-90°)	19.6	0.1			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°	55°	65°	75°	76°	85°
0°	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4
2.5°	4288.2	4189.3	4193.4	4185.2	4172.8	4127.4	3991.4	3970.8	3880.0	3855.3	3772.8
5°	4803.7	4717.1	4766.6	4692.3	4622.2	4581.0	4358.3	4255.3	4110.9	4057.3	3941.9
7.5°	5125.3	5084.0	5067.6	5071.7	5005.7	4902.6	4803.7	4576.9	4383.1	4341.9	4098.6
10°	5282.0	5257.2	5282.0	5269.6	5298.5	5310.8	5137.7	5001.6	4717.1	4647.0	4267.6
12.5°	5319.1	5368.6	5389.2	5442.8	5512.9	5632.4	5620.1	5434.5	5055.2	5009.8	4527.4
15°	5409.8	5451.0	5430.4	5517.0	5648.9	5851.0	5958.2	5929.3	5521.1	5438.7	4828.4
17.5°	5492.3	5418.0	5488.1	5661.3	5793.3	6102.5	6362.3	6481.9	6028.3	5933.5	5104.7
20°	5603.6	5583.0	5570.6	5657.2	5892.2	6304.5	6820.0	7038.5	6597.3	6498.3	5500.5
22.5°	5941.7	5945.8	5937.6	5809.8	5978.8	6444.7	7219.9	7760.1	7277.7	7195.2	5949.9
25°	6387.0	6333.4	6292.2	6189.1	6168.5	6572.6	7624.0	8642.5	8094.1	8036.3	6436.5
27.5°	6857.1	6857.1	6733.4	6638.5	6506.6	6890.1	7995.1	9500.1	9079.5	9001.2	6861.2
30°	7368.4	7397.2	7380.7	7178.7	7096.2	7236.4	8374.5	10596.9	10209.3	10110.4	7562.2
32.5°	8122.9	8061.1	8131.2	7962.1	7718.8	7842.5	8972.3	11578.3	11677.2	11537.0	8481.7
35°	9120.8	9083.7	9038.3	8762.0	8473.4	8572.4	9817.6	12786.4	13520.4	13450.3	9409.4
37.5°	10015.5	9994.9	9957.8	9768.1	9434.1	9553.7	10778.3	14044.0	15318.1	15087.2	10720.6
40°	10955.6	11067.0	10947.4	10778.3	10473.2	10737.1	11908.1	14790.3	16831.4	16551.0	11722.6
42.5°	12229.8	12143.2	12196.8	11887.5	11722.6	12011.2	13042.0	15536.7	18006.5	17672.5	12786.4
45°	13586.3	13590.4	13446.1	13347.2	12918.3	13231.7	13738.9	15949.0	18942.5	18682.7	13590.4
47.5°	14456.3	14452.2	14608.9	14765.6	14324.4	14015.1	14213.1	16340.7	19424.9	19305.4	13883.2
50°	14320.3	14361.5	14563.5	15149.1	15380.0	14963.5	14658.4	16225.2	19643.5	19631.1	14134.7
52.5°	12456.5	12592.6	12930.7	13776.0	14938.8	15454.2	15124.3	16439.7	19750.7	19771.3	14509.9
55°	9483.6	9557.8	10201.1	11227.8	12514.3	14279.0	14938.8	16608.7	19833.1	19870.3	14963.5
56°	8226.0	8028.1	8955.8	9685.7	11223.7	13153.4	14468.7	16476.8	19783.7	20068.2	15190.3
57.5°	6209.7	6077.8	6828.2	7739.5	9219.7	11256.7	13009.1	15854.1	19449.7	19445.6	14864.6
60°	3777.0	3645.0	4222.3	4758.3	5587.1	6931.3	8790.9	12625.6	16443.8	16790.1	12036.0
62.5°	2247.2	2329.7	2898.7	3224.4	3492.4	3632.6	4548.0	7504.4	10972.1	11219.5	7467.3
65°	1496.8	1525.6	1954.5	2490.5	2610.1	2078.2	1851.4	3038.9	4758.3	4605.7	3080.1
67.5°	923.6	989.6	1311.2	1872.0	2074.0	1517.4	878.3	1133.9	1311.2	1311.2	890.6
70°	560.8	593.8	874.1	1274.1	1422.5	977.2	639.1	639.1	630.9	618.5	531.9
72.5°	268.0	288.6	445.3	655.6	668.0	515.4	494.8	540.2	527.8	523.7	441.2
75°	115.5	123.7	156.7	206.2	235.0	218.5	301.0	387.6	400.0	387.6	317.5
77.5°	37.1	41.2	57.7	74.2	78.3	94.8	127.8	160.8	185.5	173.2	156.7
80°	4.1	8.2	16.5	37.1	57.7	74.2	94.8	107.2	119.6	119.6	111.3
82.5°	4.1	4.1	16.5	33.0	53.6	70.1	90.7	103.1	119.6	123.7	115.5
85°	0.0	4.1	12.4	28.9	45.4	45.4	41.2	41.2	28.9	28.9	28.9
87.5°	0.0	0.0	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4	3723.4
2.5°	3756.3	3748.1	3636.8	3566.7	3529.6	3455.3	3410.0	3377.0	3352.3	3323.4	3327.5
5°	3805.8	3777.0	3591.4	3463.6	3311.0	3228.6	3158.5	3100.7	3063.6	3055.4	3038.9
7.5°	3946.0	3793.5	3513.1	3282.2	3088.4	3005.9	2944.0	2906.9	2923.4	2886.3	2915.2
10°	4053.2	3826.4	3418.2	3084.2	2890.4	2828.6	2795.6	2824.5	2865.7	2849.2	2828.6
12.5°	4185.2	3859.4	3265.7	2894.6	2713.1	2667.8	2725.5	2779.1	2861.6	2894.6	2853.3
15°	4333.6	3896.5	3071.9	2676.0	2560.6	2597.7	2696.6	2791.5	2874.0	2915.2	2939.9
17.5°	4515.0	3884.2	2882.2	2502.9	2416.3	2523.5	2643.0	2729.6	2853.3	2915.2	2898.7
20°	4684.1	3842.9	2671.9	2329.7	2333.8	2432.8	2531.7	2671.9	2737.9	2820.3	2791.5
22.5°	4844.9	3768.7	2453.4	2210.1	2210.1	2362.7	2412.1	2502.9	2560.6	2601.8	2597.7
25°	5071.7	3628.5	2271.9	2094.6	2144.1	2243.1	2284.3	2313.2	2288.4	2321.4	2325.5
27.5°	5232.5	3484.2	2123.5	1991.6	2082.3	2156.5	2144.1	2127.6	2069.9	2024.5	2053.4
30°	5405.7	3315.1	1995.7	1921.5	1970.9	2036.9	1987.4	1938.0	1847.2	1773.0	1777.1
32.5°	5653.1	3236.8	1884.4	1839.0	1905.0	1913.2	1859.6	1785.4	1694.7	1624.6	1620.5
35°	6114.9	3187.3	1789.5	1785.4	1797.8	1801.9	1748.3	1657.6	1620.5	1562.7	1583.4
37.5°	6576.7	3162.6	1723.5	1707.1	1702.9	1707.1	1645.2	1558.6	1628.7	1624.6	1632.8
40°	7166.3	3273.9	1628.7	1608.1	1612.2	1612.2	1533.9	1509.1	1632.8	1645.2	1649.3
42.5°	7764.2	3414.1	1566.9	1500.9	1517.4	1517.4	1476.1	1447.3	1533.9	1451.4	1439.0
45°	8283.7	3620.3	1500.9	1393.7	1434.9	1455.5	1443.2	1393.7	1340.1	1199.9	1199.9
47.5°	8452.8	3801.7	1422.5	1290.6	1323.6	1414.3	1377.2	1274.1	1179.3	1063.8	1055.6
50°	8749.7	3999.6	1360.7	1171.0	1241.1	1352.4	1315.3	1212.3	1105.0	1022.6	1026.7
52.5°	9054.8	4226.4	1245.2	1030.8	1117.4	1303.0	1303.0	1187.5	1022.6	964.9	956.6
55°	9512.5	4218.2	1039.1	845.3	997.8	1228.7	1249.4	1063.8	915.4	870.0	870.0
56°	9578.5	4028.5	936.0	791.7	944.2	1208.1	1212.3	1030.8	874.1	824.7	824.7
57.5°	9083.7	3636.8	820.5	725.7	878.3	1171.0	1175.1	1002.0	841.2	771.1	762.8
60°	6989.0	2461.6	684.5	647.4	795.8	1055.6	1076.2	911.3	738.1	684.5	680.3
62.5°	3946.0	1364.8	602.0	585.5	684.5	898.9	960.7	795.8	626.7	597.9	606.1
65°	1801.9	750.4	507.2	474.2	552.5	692.7	775.2	655.6	515.4	482.4	482.4
67.5°	659.7	511.3	432.9	375.2	387.6	449.4	503.0	424.7	342.2	292.8	305.1
70°	470.1	428.8	379.3	325.7	301.0	292.8	288.6	239.2	169.1	131.9	140.2
72.5°	379.3	354.6	317.5	276.3	235.0	197.9	169.1	123.7	78.3	53.6	49.5
75°	272.1	259.8	230.9	197.9	164.9	140.2	115.5	78.3	41.2	20.6	20.6
77.5°	140.2	140.2	136.1	123.7	103.1	82.5	66.0	45.4	24.7	8.2	8.2
80°	107.2	115.5	119.6	107.2	94.8	74.2	53.6	33.0	16.5	4.1	4.1
82.5°	103.1	119.6	127.8	111.3	94.8	70.1	53.6	33.0	16.5	4.1	4.1
85°	24.7	24.7	37.1	41.2	53.6	57.7	45.4	28.9	12.4	4.1	4.1
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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)