

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: P648681

Luminaire Tested: **GALN-SA9B-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29219.2 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

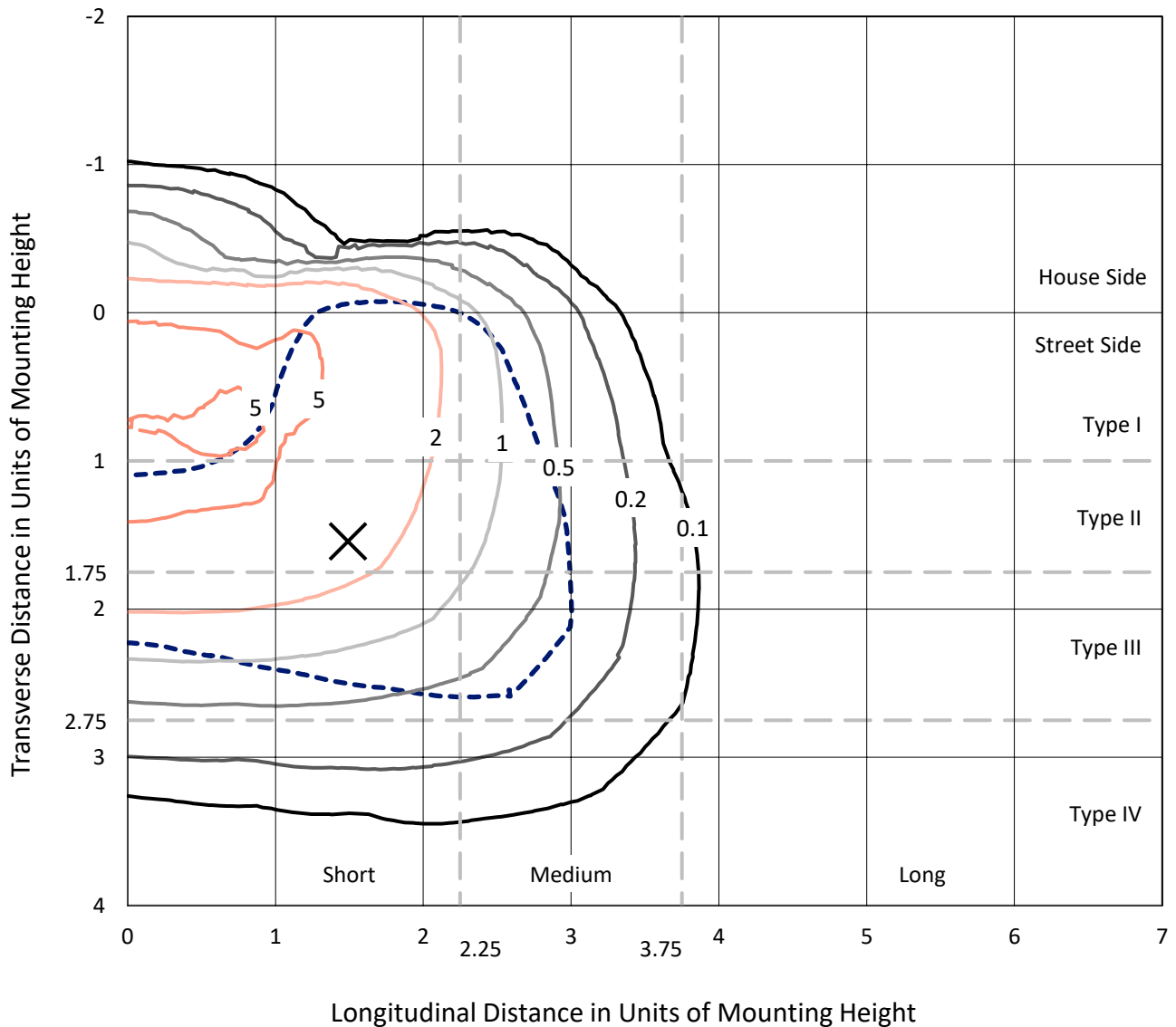
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

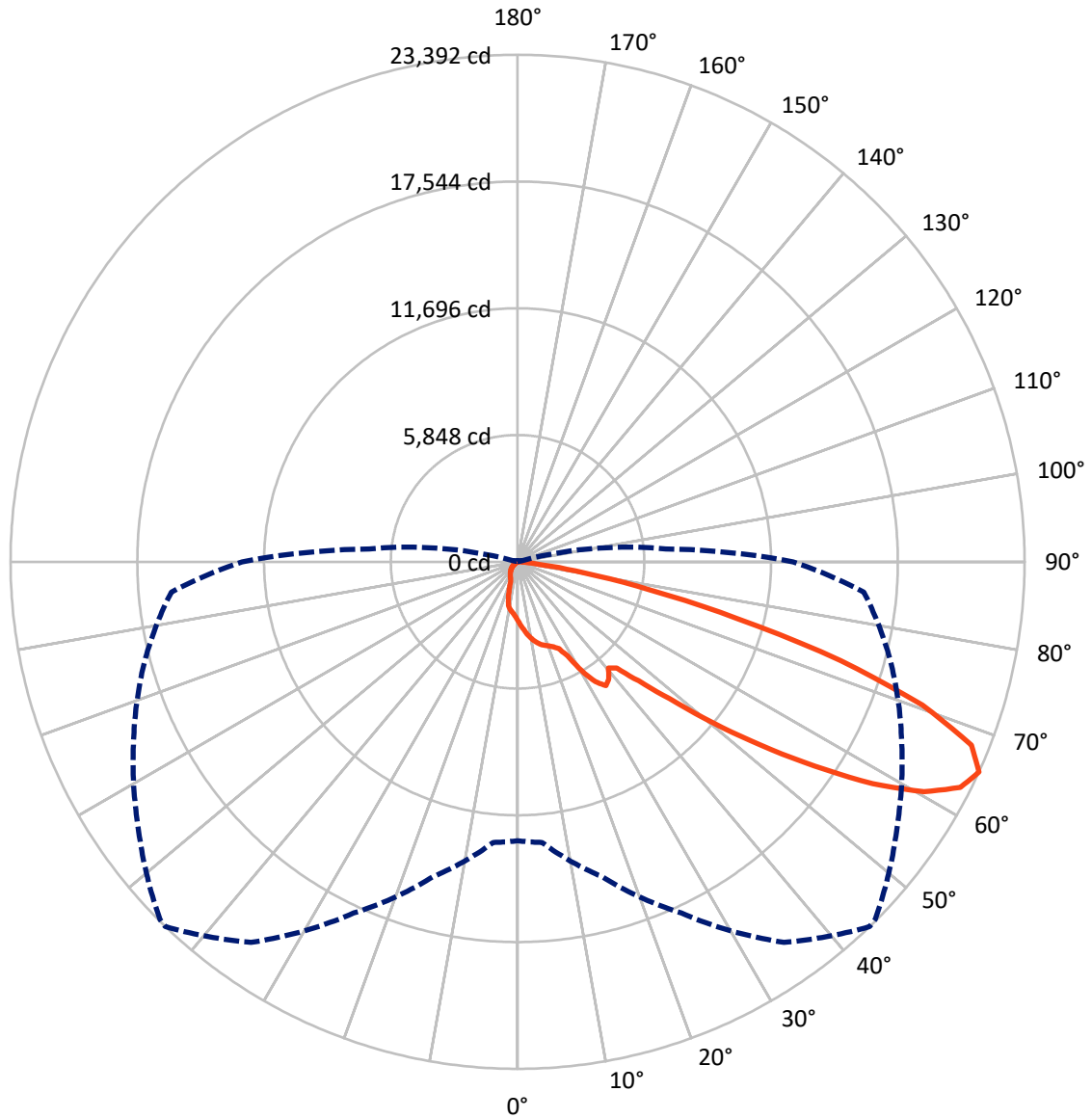
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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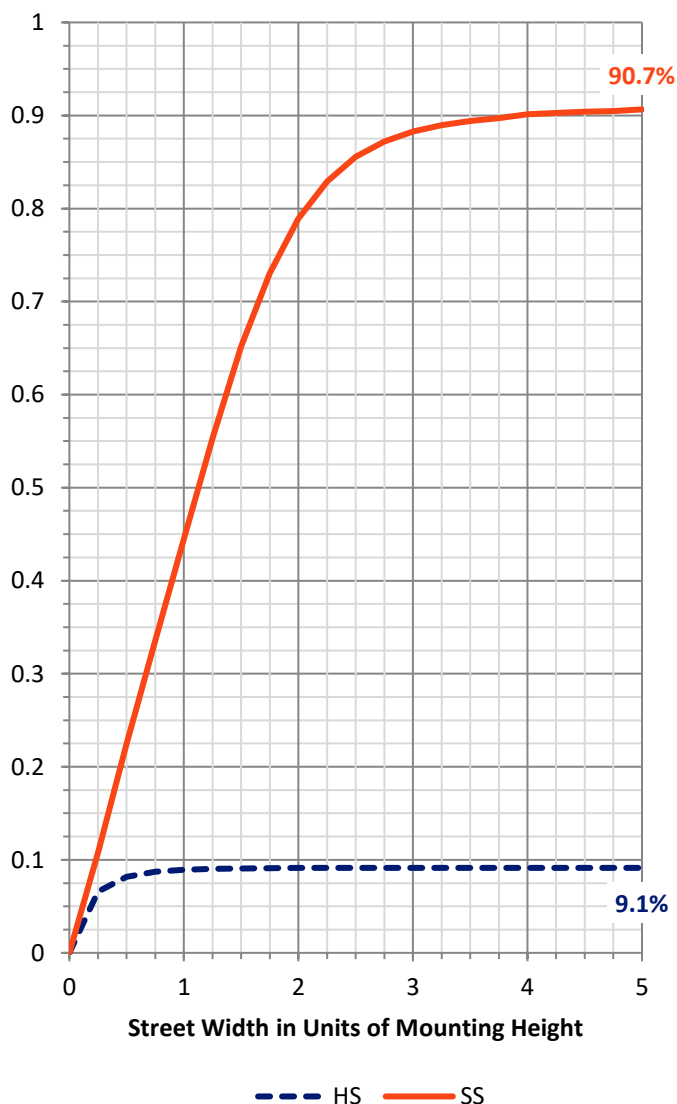
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2692.1	0.0	2692.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	26527.1	0.0	26527.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	29219.2	0.0	29219.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	0.9
10°-20°	814.0	2.8
20°-30°	1380.3	4.7
30°-40°	2295.0	7.9
40°-50°	4007.2	13.7
50°-60°	7828.6	26.8
60°-70°	9083.0	31.1
70°-80°	3307.6	11.3
80°-90°	233.1	0.8
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°	29219.2	100.0
0°-180°	29219.2	100.0

Coefficient of Utilization

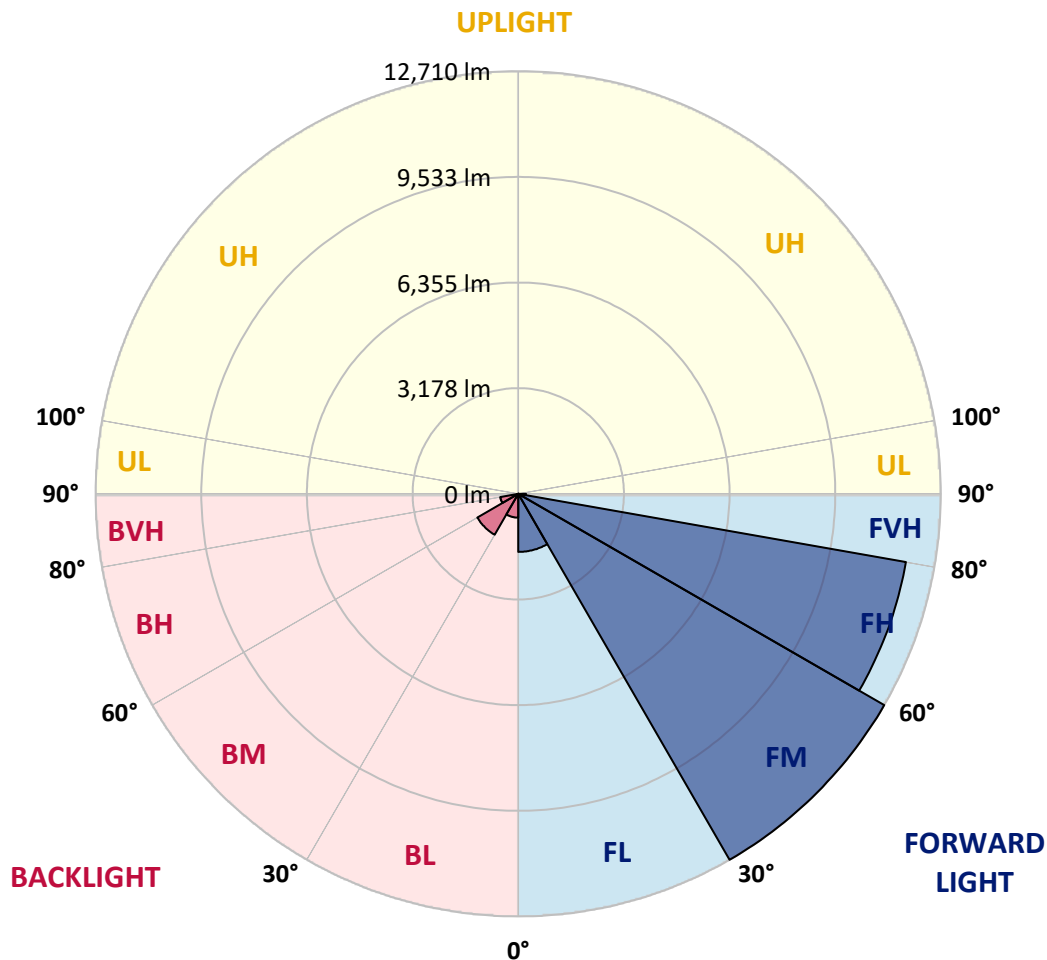


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.6	6.0			
FM (30°-60°)	12710.4	43.5			
FH (60°-80°)	11839.2	40.5			G4/12000
FVH (80°-90°)	229.9	0.8			G3/500
BL (0°-30°)	717.3	2.5	B2/1000		
BM (30°-60°)	1420.4	4.9	B2/2500		
BH (60°-80°)	551.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4
2.5°	3061.1	3047.7	3040.9	3005.2	2978.5	2944.9	2944.9	2902.5	2853.4	2799.9	2750.7
5°	3402.7	3380.3	3351.3	3320.0	3257.5	3168.2	3168.2	3078.9	2976.2	2884.7	2784.2
7.5°	3730.8	3710.8	3661.6	3601.3	3498.7	3404.9	3398.1	3268.7	3145.9	3007.4	2864.5
10°	4018.9	4003.2	3960.8	3844.7	3737.6	3614.7	3612.5	3467.4	3324.5	3154.8	2978.5
12.5°	4219.8	4222.0	4166.3	4054.6	3916.2	3800.1	3791.1	3648.2	3498.7	3315.5	3099.0
15°	4362.7	4362.7	4304.6	4179.7	4054.6	3951.9	3943.0	3817.9	3663.9	3465.2	3230.7
17.5°	4402.9	4416.3	4353.8	4242.1	4141.7	4052.3	4050.1	3945.2	3822.4	3630.4	3364.7
20°	4387.3	4400.7	4351.5	4264.5	4195.2	4143.9	4137.2	4094.8	3980.9	3800.1	3507.6
22.5°	4353.8	4367.2	4331.5	4280.1	4246.6	4262.3	4251.1	4286.8	4226.5	4007.7	3677.3
25°	4360.4	4373.8	4347.1	4318.1	4347.1	4443.1	4472.1	4626.2	4572.6	4271.2	3860.3
27.5°	4570.4	4597.1	4559.2	4572.6	4675.3	4898.5	4954.4	5220.1	4983.4	4606.1	4146.1
30°	5037.0	5019.1	4947.7	5012.5	5369.7	5843.0	5827.4	5785.0	5414.3	4992.3	4485.5
32.5°	5461.2	5445.6	5441.1	5720.2	6367.7	6597.6	6586.5	6175.7	5800.5	5434.4	4820.4
35°	5633.1	5572.8	5559.5	6236.0	7318.8	7015.1	6945.9	6336.4	6269.4	5916.7	5162.0
37.5°	6151.1	6108.7	5901.1	6320.8	6939.3	6838.8	6785.2	6613.3	6769.6	6343.1	5548.3
40°	7218.3	7100.0	6912.5	6501.6	6401.2	6443.6	6497.2	6968.3	7361.2	6925.9	6064.0
42.5°	8544.6	8517.8	8169.5	7403.7	6651.3	6709.3	6778.5	7709.6	8211.9	7803.3	6905.7
45°	10136.5	10174.5	9672.1	8767.9	7781.0	7830.1	7930.5	8803.6	9364.0	9167.5	8229.7
47.5°	11583.3	11554.3	11384.6	10444.6	9533.7	9424.3	9587.2	10208.0	10958.2	10989.4	9873.0
50°	13039.0	13193.1	12940.8	12572.4	11895.9	11665.9	11605.6	11909.3	13052.4	12902.8	11846.7
52.5°	15131.1	15211.4	14738.1	14644.3	14798.4	14052.7	13992.4	14066.0	15088.6	14575.1	13324.8
55°	16446.1	16399.2	16222.8	16955.2	17564.7	16633.7	16557.8	16260.8	16778.8	15756.2	14747.0
57.5°	16861.4	16928.4	17339.2	18663.2	20105.6	19315.1	19176.7	18332.8	17997.9	16857.0	16055.4
60°	16676.1	16798.9	17685.3	19654.6	21655.0	21536.7	21418.3	20000.6	18873.0	17776.8	16973.0
62.5°	15356.6	15528.5	16946.2	19478.1	22179.7	22918.7	22771.4	21041.0	19455.8	18223.4	17133.8
65°	12869.3	12996.6	15032.8	17877.3	21434.0	23392.0	23338.5	21367.0	19547.4	17814.7	16033.1
67.5°	9174.2	9607.3	11494.0	15066.3	19228.1	22583.8	22675.4	20976.3	18687.8	16048.7	13277.9
70°	5767.1	6061.8	7414.9	10786.2	15414.6	19813.0	20114.5	19187.9	16218.4	12509.8	8888.4
72.5°	2750.7	2969.5	3934.0	6827.6	10880.0	15588.7	15827.6	15751.8	12541.2	7881.4	4586.0
75°	1225.8	1308.4	1877.7	3485.3	7024.1	10478.1	11096.5	11199.2	7836.8	3855.9	1783.9
77.5°	625.1	627.4	879.7	1687.9	3507.6	6251.6	6374.4	6733.9	4248.9	1699.1	620.7
80°	332.7	355.0	466.7	797.1	1819.7	3078.9	3063.3	3366.9	1884.4	832.8	207.7
82.5°	149.6	165.2	263.5	417.5	888.6	1167.7	1259.2	1377.6	808.2	531.4	91.5
85°	44.6	53.6	129.5	209.8	321.5	337.2	377.3	486.7	457.7	377.3	46.9
87.5°	6.7	6.7	53.6	58.0	46.9	60.3	62.5	69.2	147.4	138.4	24.6
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°	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4	2719.4
2.5°	2723.9	2708.2	2652.5	2605.6	2565.3	2540.8	2511.8	2493.9	2485.0	2478.3	2480.5
5°	2735.1	2697.1	2601.1	2525.2	2467.2	2404.6	2362.2	2337.6	2326.4	2308.6	2308.6
7.5°	2797.6	2737.3	2603.3	2487.2	2386.7	2301.9	2221.5	2192.6	2172.4	2168.0	2163.5
10°	2886.9	2811.0	2627.9	2467.2	2324.3	2208.1	2094.3	1993.8	1915.7	1868.8	1862.1
12.5°	2998.5	2889.1	2665.9	2453.8	2270.7	2065.2	1763.9	1560.7	1424.4	1382.1	1388.7
15°	3101.2	2982.9	2703.8	2442.6	2172.4	1712.5	1370.9	1138.7	1069.5	1062.8	1065.0
17.5°	3224.0	3083.4	2748.5	2427.0	1902.3	1308.4	1018.1	955.6	969.0	991.4	989.1
20°	3351.3	3190.6	2802.0	2333.2	1518.2	984.6	899.7	906.5	926.6	946.6	951.1
22.5°	3487.5	3313.3	2864.5	2107.7	1158.8	857.4	852.9	861.8	881.9	904.2	908.7
25°	3675.0	3467.4	2911.4	1813.0	877.4	792.6	801.6	817.1	835.1	859.6	864.0
27.5°	3916.2	3675.0	2936.0	1428.9	759.1	734.5	736.8	759.1	781.4	803.7	803.7
30°	4228.7	3922.8	2886.9	1080.6	701.1	678.7	669.8	683.2	712.2	734.5	736.8
32.5°	4507.8	4157.3	2757.4	826.1	658.7	627.4	605.1	607.3	618.5	631.9	634.1
35°	4786.9	4385.0	2536.4	694.4	614.0	578.2	544.8	526.9	518.0	511.3	518.0
37.5°	5144.2	4668.6	2241.7	631.9	576.1	531.4	484.5	446.5	415.3	395.2	399.6
40°	5604.1	5061.5	1893.4	591.6	540.3	486.7	424.2	375.1	321.5	303.6	294.7
42.5°	6363.2	5657.6	1527.2	558.2	504.6	439.8	361.7	294.7	245.6	227.8	232.2
45°	7562.2	6410.1	1176.6	522.4	468.9	388.5	303.6	232.2	192.0	183.1	187.5
47.5°	9151.9	7383.5	906.5	482.2	424.2	332.7	238.9	183.1	158.6	156.3	154.1
50°	10647.8	8290.0	756.9	437.6	370.6	276.9	196.5	154.1	138.4	136.2	136.2
52.5°	12000.8	8939.7	616.2	386.3	312.6	227.8	165.2	136.2	122.8	116.1	116.1
55°	13204.2	9364.0	500.1	323.8	245.6	180.9	142.9	122.8	107.2	98.3	96.0
57.5°	14112.9	9415.3	375.1	259.0	183.1	140.6	122.8	107.2	89.3	78.1	73.7
60°	14501.4	8971.0	276.9	196.5	136.2	111.7	98.3	87.1	66.9	55.8	53.6
62.5°	14110.7	8106.9	205.4	149.6	104.9	82.6	69.2	64.8	46.9	33.5	31.2
65°	12710.8	6858.8	163.0	113.8	78.1	60.3	44.6	42.4	29.0	15.7	13.4
67.5°	10183.4	5371.9	129.5	84.9	55.8	40.2	29.0	26.8	15.7	4.5	4.5
70°	6622.2	3433.9	104.9	62.5	35.7	26.8	17.9	13.4	8.9	2.3	0.0
72.5°	3275.4	1605.3	84.9	49.1	24.6	13.4	6.7	4.5	6.7	0.0	0.0
75°	1270.4	571.6	62.5	33.5	13.4	6.7	4.5	0.0	2.3	0.0	0.0
77.5°	422.0	189.8	38.0	17.9	8.9	4.5	0.0	0.0	0.0	0.0	0.0
80°	156.3	73.7	20.1	11.2	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	62.5	29.0	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	17.9	8.9	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	13.4	8.9	6.7	4.5	2.3	0.0	0.0	0.0	0.0	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)