

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: P647400

Luminaire Tested: **GALN-SA4D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17912.7 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

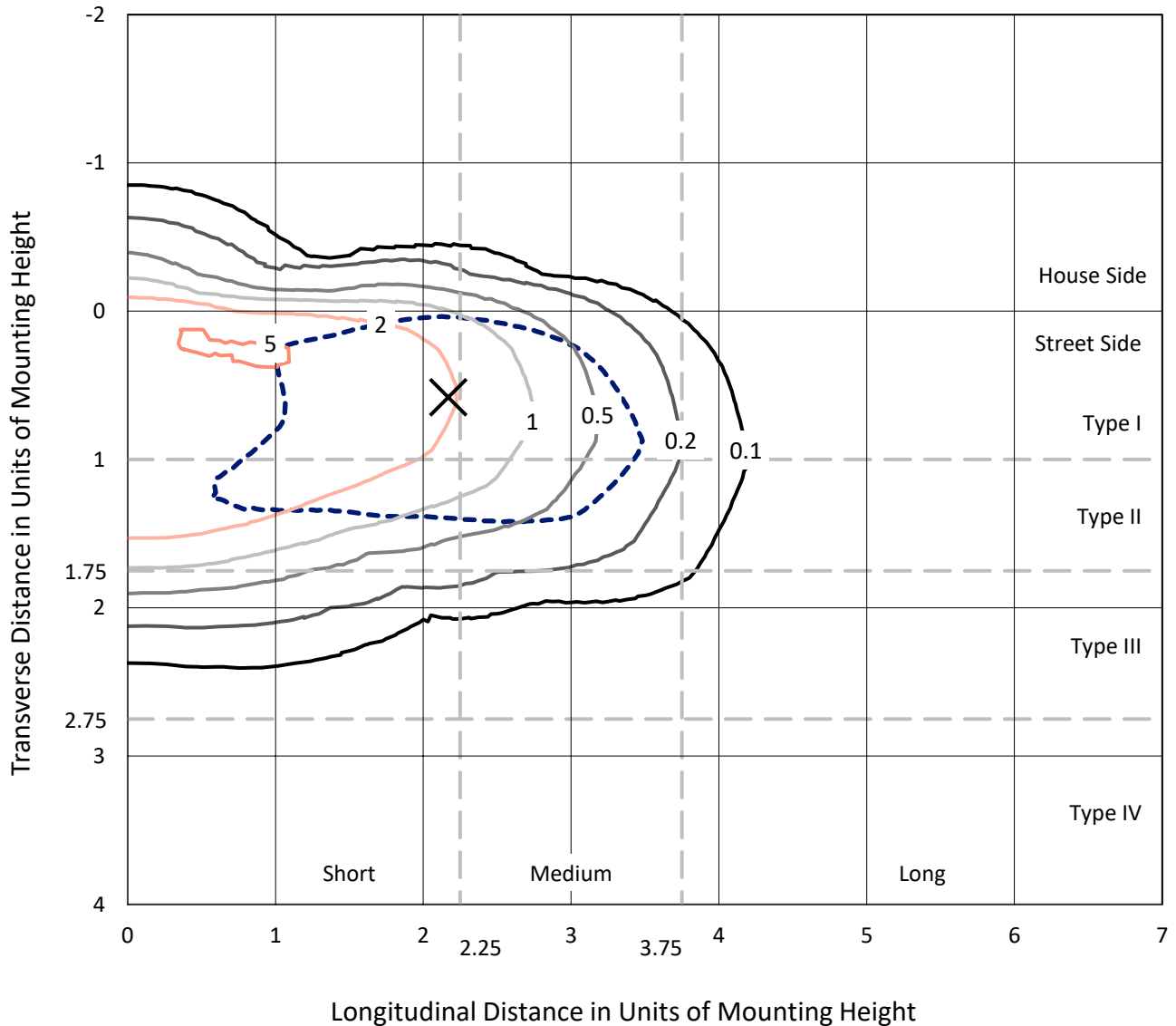
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

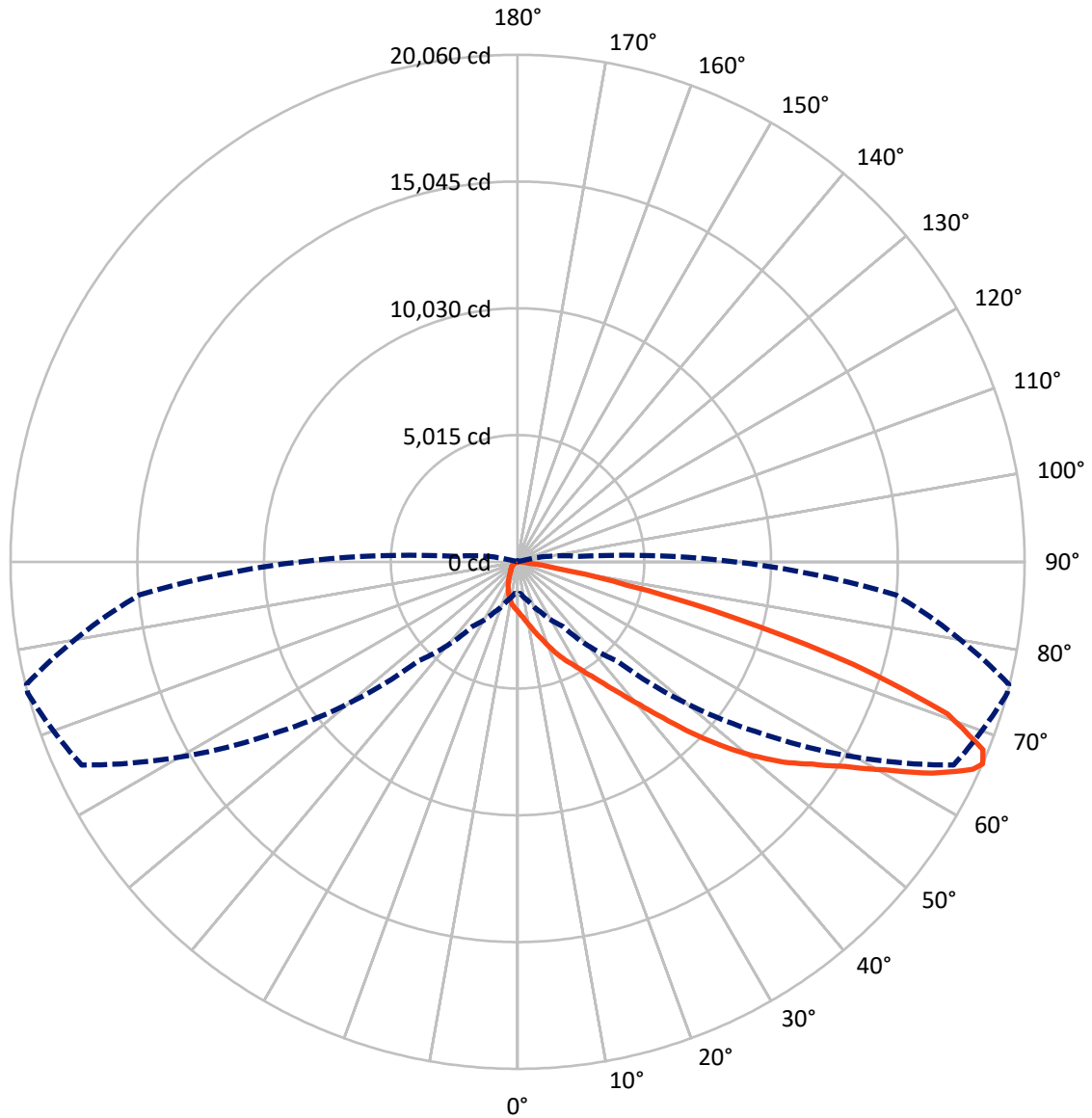
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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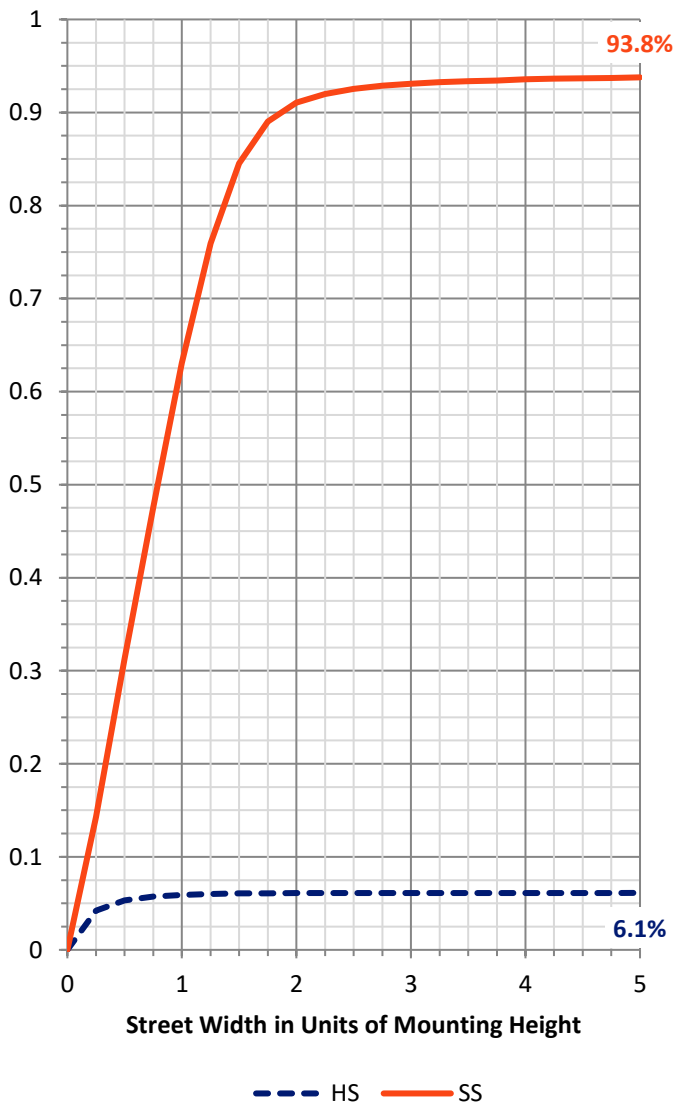
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.9	0.0	1105.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	16806.8	0.0	16806.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	17912.7	0.0	17912.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.1
10°-20°	556.1	3.1
20°-30°	960.2	5.4
30°-40°	1732.0	9.7
40°-50°	3128.9	17.5
50°-60°	4878.0	27.2
60°-70°	4633.9	25.9
70°-80°	1736.7	9.7
80°-90°	98.0	0.5
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°	17912.7	100.0
0°-180°	17912.7	100.0

Coefficient of Utilization

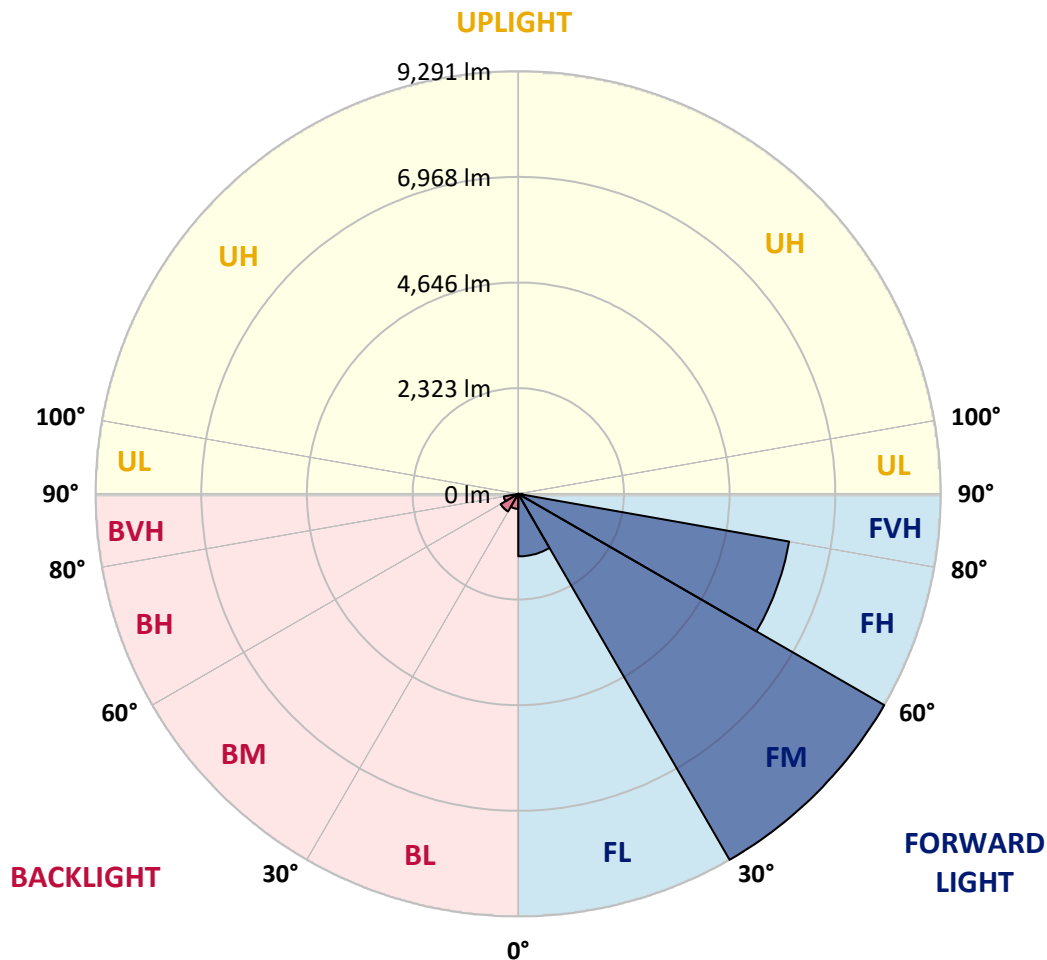


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1375.0	7.7			
FM (30°-60°)	9291.3	51.9			
FH (60°-80°)	6047.7	33.8			G3/7500
FVH (80°-90°)	92.9	0.5			G1/100
BL (0°-30°)	330.3	1.8	B1/500		
BM (30°-60°)	447.6	2.5	B1/1000		
BH (60°-80°)	322.9	1.8	B1/500		G1/500
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
2.5°	2340.4	2311.3	2320.5	2307.3	2276.8	2231.8	2192.0	2135.1	2078.2	2068.8	2005.3
5°	2649.0	2641.1	2630.5	2592.0	2570.8	2502.0	2419.9	2321.8	2204.0	2182.8	2067.5
7.5°	2859.6	2855.6	2860.9	2841.0	2822.5	2760.2	2672.8	2539.0	2356.3	2344.4	2152.3
10°	2928.5	2939.1	2959.0	2990.7	3019.9	3000.0	2933.7	2766.9	2553.6	2519.2	2249.0
12.5°	2888.7	2900.6	2948.3	3033.1	3127.1	3181.4	3154.9	3033.1	2762.9	2735.1	2357.6
15°	2786.8	2801.3	2868.8	3000.0	3168.2	3321.8	3388.0	3300.7	3006.6	2961.5	2488.8
17.5°	2635.7	2657.0	2753.7	2927.2	3157.6	3422.5	3609.2	3580.1	3266.2	3223.8	2631.7
20°	2521.8	2537.7	2619.8	2818.6	3112.6	3478.2	3819.9	3902.0	3586.8	3513.9	2800.0
22.5°	2597.4	2602.6	2630.5	2749.7	3031.8	3492.7	4005.3	4237.0	3927.1	3862.2	2974.9
25°	2966.9	2913.9	2886.1	2859.6	3014.6	3479.4	4173.5	4586.7	4266.2	4197.3	3148.4
27.5°	3549.7	3525.8	3385.4	3197.3	3161.6	3496.6	4284.7	4917.9	4585.4	4511.3	3317.9
30°	4184.1	4143.0	4057.0	3781.4	3504.6	3618.6	4365.5	5239.7	4962.9	4864.9	3472.8
32.5°	4766.8	4793.4	4664.9	4381.4	4060.9	3878.1	4470.1	5590.7	5396.0	5274.1	3652.9
35°	5446.3	5499.3	5301.9	5030.5	4655.6	4347.0	4674.1	5986.7	5945.6	5792.0	3931.1
37.5°	6136.4	6168.2	6047.7	5666.2	5328.5	4943.0	5058.3	6475.5	6622.5	6491.4	4263.6
40°	6716.5	6760.3	6671.5	6332.4	5972.2	5633.1	5615.8	7007.9	7427.8	7292.7	4758.9
42.5°	7160.2	7193.3	7196.0	6956.3	6631.8	6478.1	6327.1	7687.3	8437.1	8280.8	5333.7
45°	7720.5	7768.1	7740.3	7577.4	7335.1	7307.3	7229.1	8508.5	9645.0	9447.6	6079.4
47.5°	8586.7	8618.5	8549.7	8357.6	8111.3	8154.9	8108.6	9429.1	10876.7	10707.2	6851.6
50°	9188.0	9241.0	9339.0	9415.8	9237.1	9075.4	8937.7	10288.7	12046.3	11894.0	7641.0
52.5°	9181.4	9268.8	9578.8	9965.5	10356.3	10307.3	9911.2	11238.3	13162.9	12974.8	8382.7
55°	8562.9	8732.4	9188.0	9874.1	10956.2	11495.3	11315.1	12337.7	14127.0	14000.0	9242.3
57.5°	7286.0	7389.3	8022.5	8981.4	10621.2	12054.2	12941.7	13827.7	15283.4	15223.8	10577.4
60°	4900.6	4947.0	5761.5	6947.0	9042.3	11496.6	14133.7	15630.4	16707.2	16678.1	12136.3
62.5°	2807.9	2827.8	3418.5	4418.5	6434.4	9743.0	14234.4	17854.2	18414.4	18430.3	13940.3
65°	1511.3	1521.8	1998.7	2593.4	3915.2	6944.3	12799.9	19072.8	19794.6	19825.1	15058.2
66°	1304.6	1254.3	1590.7	2210.6	3115.2	5527.1	11892.7	19029.0	20059.5	20026.4	15018.5
67.5°	992.1	1037.1	1270.2	1699.3	2308.6	3929.8	9818.5	18182.7	19858.1	19754.9	14407.9
70°	709.9	728.5	904.6	1211.9	1572.2	2156.3	6274.1	15101.9	18048.9	17909.9	12552.3
72.5°	458.3	478.2	641.0	876.8	1136.4	1177.5	3512.5	10911.2	13915.2	13895.3	9452.9
75°	327.1	345.7	423.8	627.8	854.3	728.5	1691.4	7353.6	8846.3	8786.7	5847.7
77.5°	237.1	246.3	283.4	410.6	610.6	521.9	784.1	3927.1	4404.0	4611.9	2584.1
80°	136.4	144.4	197.3	250.3	413.3	356.3	374.8	1576.2	1625.2	1547.0	808.0
82.5°	67.6	76.8	117.8	170.9	258.3	239.8	172.2	474.2	500.7	487.4	204.0
85°	15.9	19.9	66.2	112.6	125.8	107.3	83.5	139.1	172.2	168.2	78.1
87.5°	1.3	2.7	23.8	19.9	21.2	35.8	29.1	35.8	55.6	51.7	27.8
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°	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9	1958.9
2.5°	1976.1	1951.0	1878.1	1806.6	1747.0	1684.8	1627.8	1594.7	1581.4	1566.9	1573.5
5°	2003.9	1943.0	1796.0	1668.9	1544.4	1438.4	1353.7	1299.3	1272.8	1268.9	1262.3
7.5°	2041.0	1936.4	1708.6	1509.9	1347.0	1229.2	1132.5	1054.3	1030.4	1009.3	992.1
10°	2086.1	1924.5	1600.0	1343.0	1169.6	1021.2	894.0	801.3	753.6	740.4	749.6
12.5°	2133.8	1902.0	1486.1	1189.4	989.4	800.0	682.1	635.8	622.5	617.2	618.6
15°	2181.4	1874.2	1366.9	1041.1	788.1	638.4	584.1	572.2	566.9	564.2	561.6
17.5°	2225.1	1829.2	1233.1	896.7	638.4	545.7	525.9	515.2	504.6	500.7	494.1
20°	2276.8	1777.5	1112.6	735.1	540.4	494.1	470.2	450.3	434.4	423.8	422.5
22.5°	2325.8	1711.2	986.7	609.3	492.7	443.7	405.3	384.1	365.6	352.4	356.3
25°	2352.3	1630.4	874.1	531.1	449.0	393.4	351.0	324.5	304.7	298.0	296.7
27.5°	2352.3	1531.2	764.2	486.1	409.3	348.4	304.7	279.5	266.2	257.0	258.3
30°	2333.7	1421.2	662.3	451.6	374.8	308.6	267.6	245.0	234.4	227.8	226.5
32.5°	2319.2	1316.5	574.8	418.5	339.0	274.2	238.4	221.2	210.6	204.0	204.0
35°	2341.7	1226.5	507.3	385.4	306.0	247.7	215.9	200.0	189.4	184.1	182.8
37.5°	2401.3	1144.4	455.6	349.7	275.5	225.2	200.0	181.4	170.9	164.3	161.6
40°	2548.4	1098.0	417.2	316.6	246.3	206.6	181.4	164.3	151.0	144.4	143.1
42.5°	2784.1	1099.3	380.1	286.1	223.9	190.7	165.5	145.7	131.2	124.5	123.2
45°	3139.0	1149.7	351.0	257.0	204.0	173.5	148.4	127.2	113.9	107.3	107.3
47.5°	3564.2	1247.7	325.8	231.8	185.4	157.6	131.2	109.9	96.7	91.4	91.4
50°	4025.2	1374.8	300.7	205.3	169.5	140.4	112.6	95.4	84.8	80.8	80.8
52.5°	4495.4	1528.5	275.5	184.1	152.3	121.8	96.7	84.8	75.5	72.8	71.5
55°	5112.5	1724.5	249.0	161.6	133.7	104.6	86.1	74.2	63.6	59.6	58.3
57.5°	6062.2	2019.8	219.9	141.7	109.9	87.4	74.2	62.2	50.3	43.7	42.4
60°	7207.9	2380.1	189.4	124.5	88.7	71.5	59.6	47.7	37.1	29.1	27.8
62.5°	8280.8	2609.3	160.3	104.6	70.2	54.3	42.4	35.8	26.5	18.6	17.2
65°	8755.0	2532.5	132.5	84.8	55.6	38.4	27.8	25.1	15.9	7.9	6.7
66°	8597.3	2418.5	121.8	76.8	50.3	33.1	23.8	21.2	11.9	4.0	4.0
67.5°	8132.4	2149.6	105.9	66.2	43.7	26.5	18.6	15.9	6.7	1.3	0.0
70°	6968.2	1739.0	83.5	49.0	31.8	18.6	10.6	7.9	4.0	0.0	0.0
72.5°	5352.3	1295.4	66.2	37.1	22.6	10.6	5.3	2.7	4.0	0.0	0.0
75°	3279.4	740.4	51.7	27.8	14.6	6.7	4.0	0.0	4.0	1.3	0.0
77.5°	1455.6	332.5	34.5	18.6	10.6	5.3	2.7	0.0	2.7	1.3	0.0
80°	368.2	108.6	19.9	13.2	7.9	4.0	1.3	0.0	2.7	2.7	1.3
82.5°	100.7	39.7	14.6	10.6	6.7	4.0	1.3	0.0	2.7	2.7	2.7
85°	39.7	18.6	13.2	10.6	7.9	4.0	1.3	0.0	2.7	2.7	2.7
87.5°	18.6	13.2	13.2	11.9	9.2	4.0	1.3	0.0	2.7	1.3	2.7
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)