

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: P530923

Luminaire Tested: **GALN-SA6A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13106 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 182
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

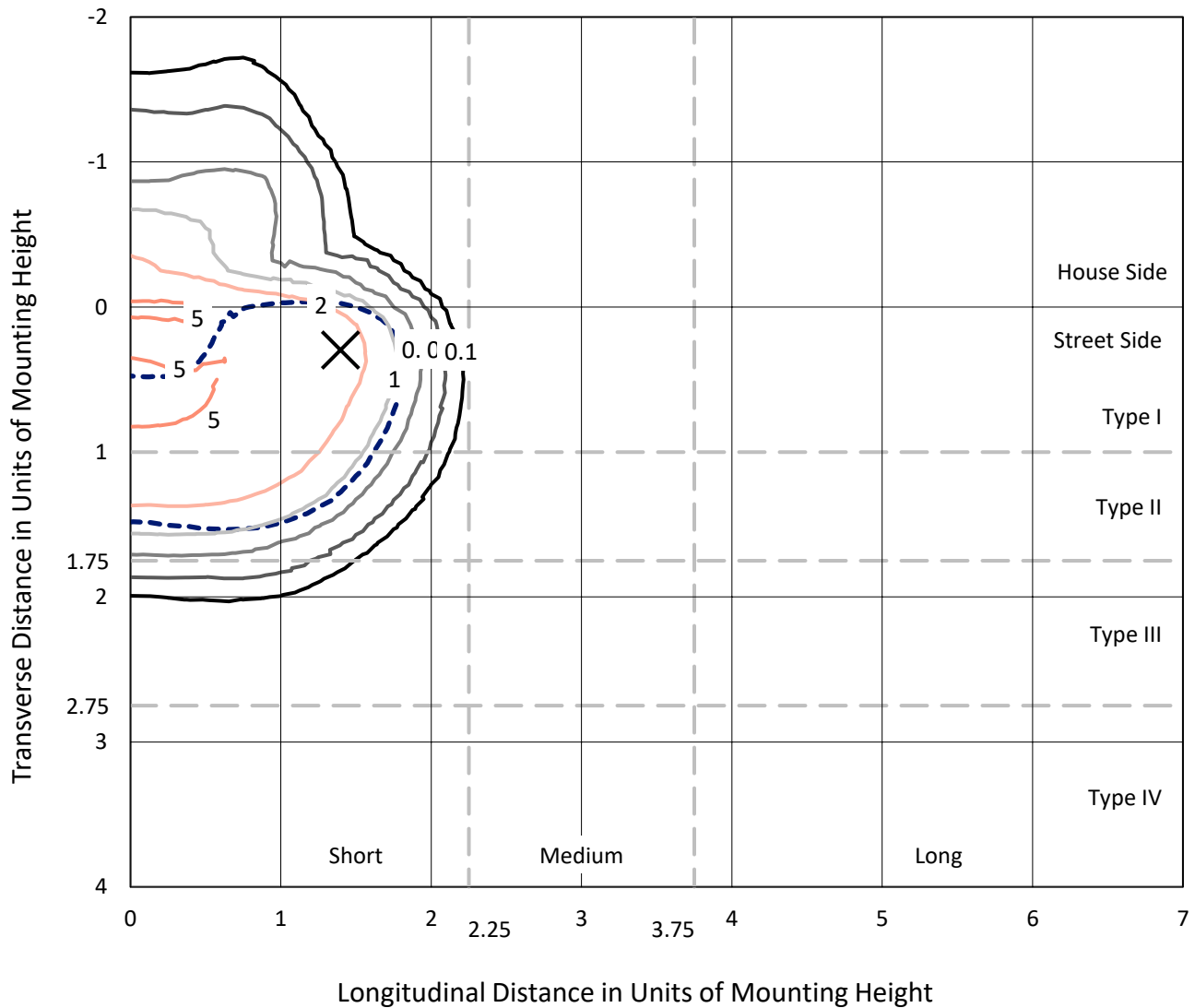


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

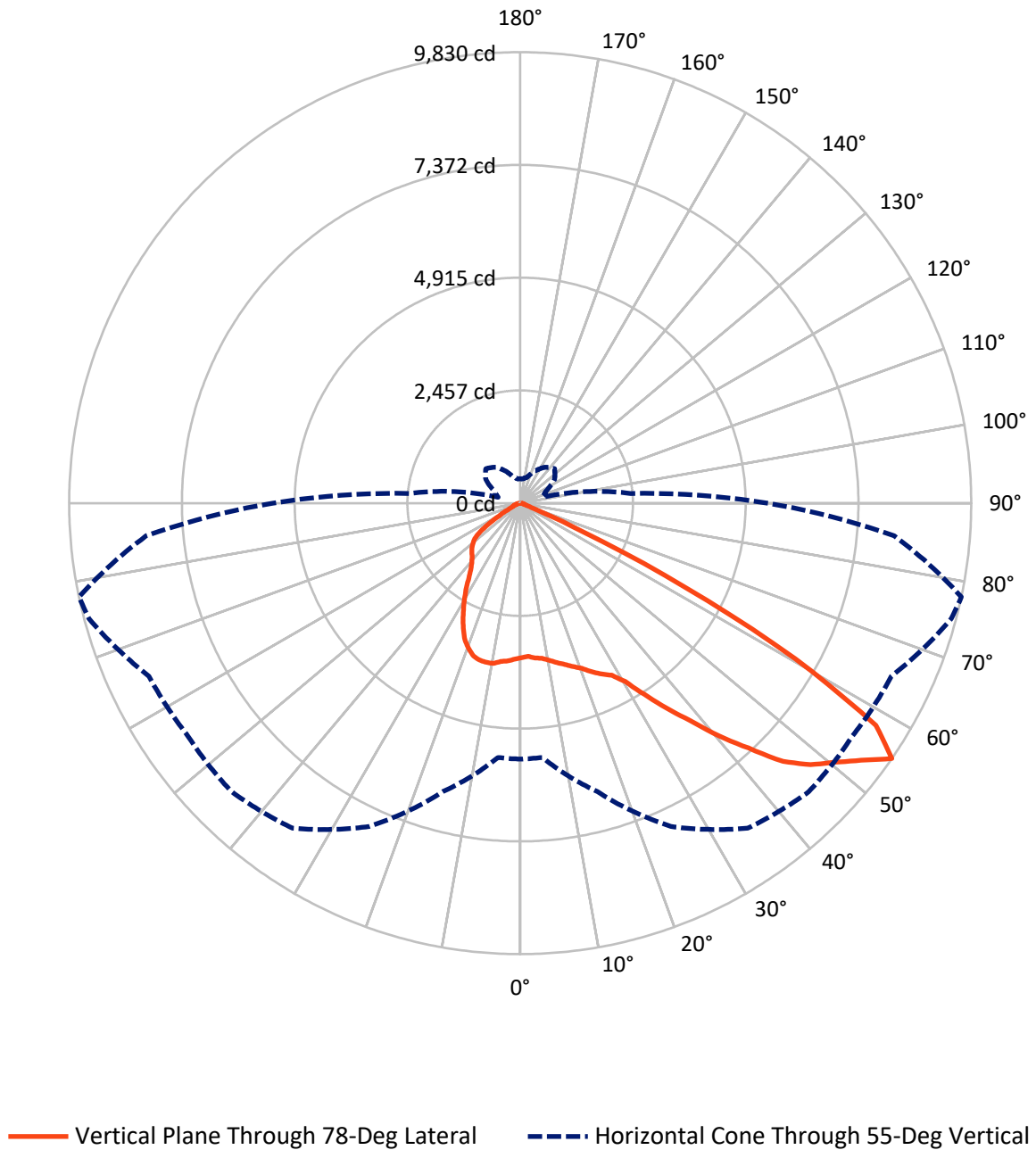


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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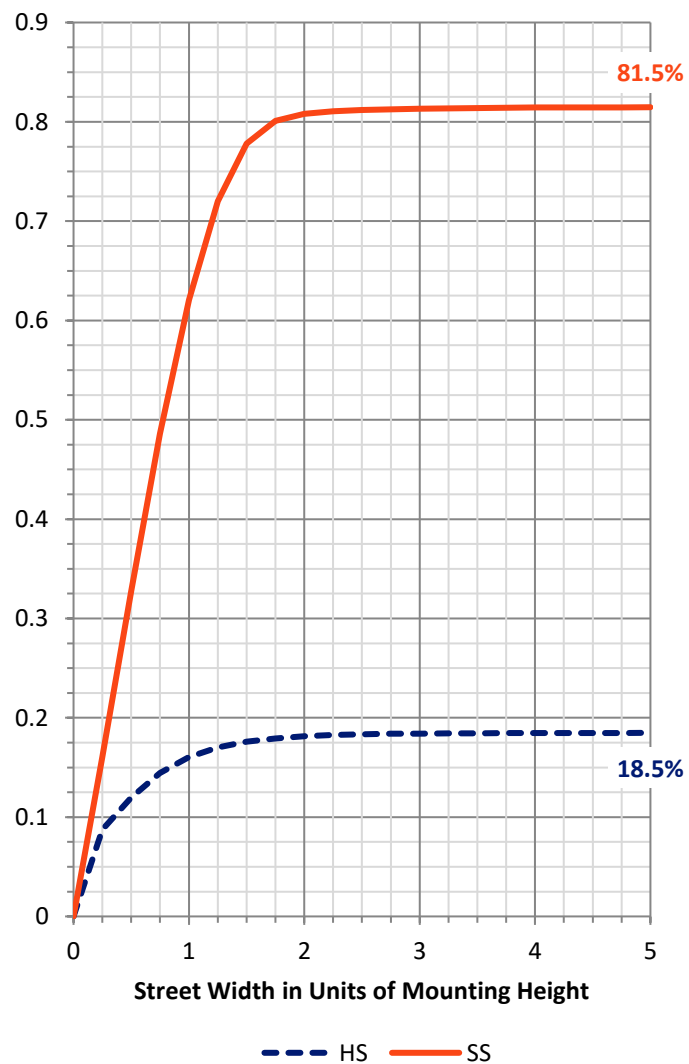
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2434.3	0.0	2434.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10671.7	0.0	10671.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	13106.0	0.0	13106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.5	2.3
10°-20°	795.2	6.1
20°-30°	1393.8	10.6
30°-40°	2298.2	17.5
40°-50°	3344.1	25.5
50°-60°	3789.2	28.9
60°-70°	1083.4	8.3
70°-80°	84.1	0.6
80°-90°	17.5	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°	13106.0	100.0
0°-180°	13106.0	100.0

Coefficient of Utilization



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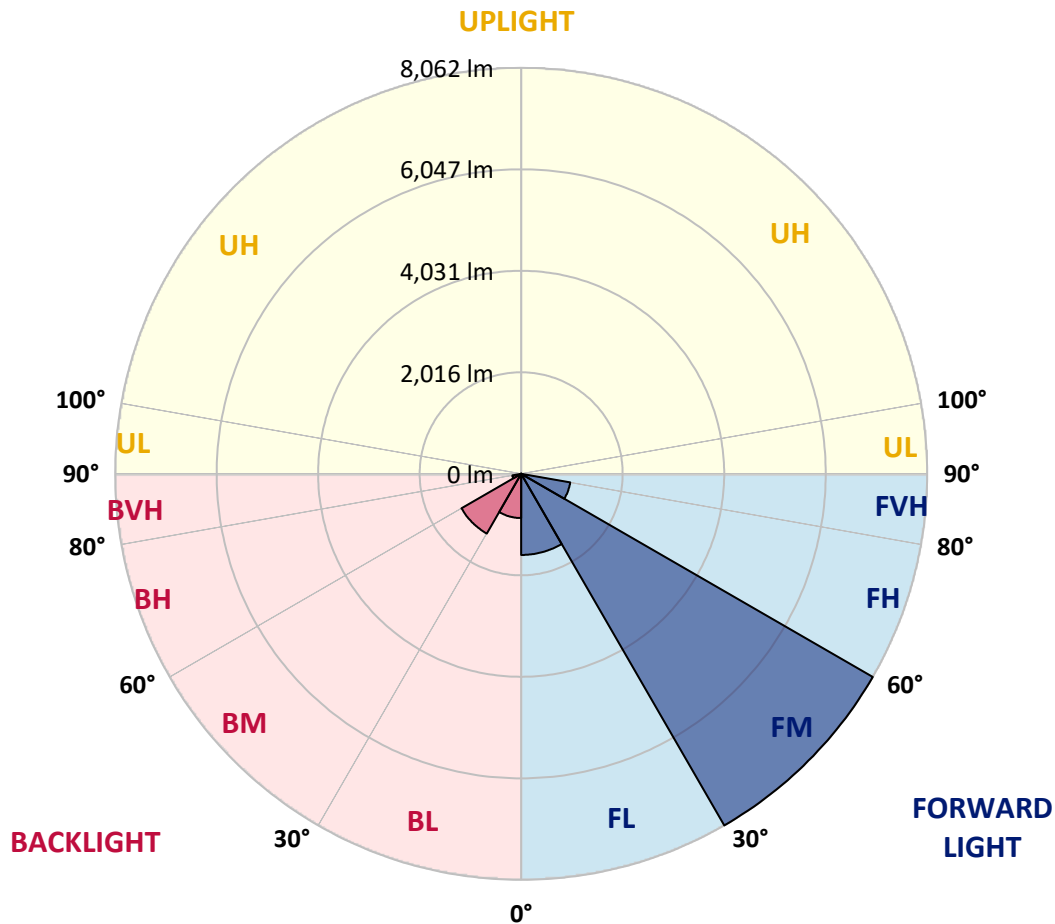
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.1	12.3			
FM	(30°-60°)	8062.2	61.5			
FH	(60°-80°)	989.8	7.6			G1/1800
FVH	(80°-90°)	8.5	0.1			G0/10
BL	(0°-30°)	878.3	6.7	B2/1000		
BM	(30°-60°)	1369.3	10.4	B2/2500		
BH	(60°-80°)	177.7	1.4	B1/500		G1/500
BVH	(80°-90°)	9.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6
2.5°	3168.0	3198.5	3203.2	3240.7	3238.3	3301.6	3320.4	3322.7	3364.9	3343.8	3397.7
5°	3079.0	3062.6	3055.6	3121.2	3139.9	3196.2	3243.0	3271.1	3357.8	3388.3	3444.5
7.5°	2999.3	2999.3	3004.0	3062.6	3055.6	3128.2	3177.4	3264.1	3390.6	3416.4	3484.4
10°	2922.0	2893.9	2929.0	2990.0	3041.5	3074.3	3177.4	3259.4	3407.1	3482.0	3575.8
12.5°	2882.2	2896.2	2900.9	2945.4	3001.7	3100.1	3156.3	3292.2	3524.2	3568.7	3669.5
15°	3132.9	3104.8	3036.8	2997.0	3043.9	3090.7	3231.3	3369.6	3585.1	3648.4	3760.9
17.5°	3423.5	3400.0	3343.8	3236.0	3130.6	3217.3	3327.4	3453.9	3650.7	3744.5	3910.8
20°	3803.1	3765.6	3709.3	3498.4	3407.1	3313.3	3430.5	3580.5	3758.5	3842.9	4013.9
22.5°	4255.3	4255.3	4128.8	3873.4	3683.6	3594.5	3643.7	3730.4	3878.0	3992.9	4161.6
25°	4726.3	4712.2	4597.4	4332.6	4011.6	3906.2	3962.4	4023.3	4063.2	4126.4	4238.9
27.5°	5265.2	5183.2	5037.9	4745.0	4461.5	4257.6	4318.6	4264.7	4215.5	4248.3	4410.0
30°	5630.8	5682.3	5497.2	5216.0	4948.9	4721.6	4733.3	4686.5	4461.5	4508.4	4604.4
32.5°	6010.4	6043.2	5940.1	5785.4	5518.3	5253.5	5157.4	5117.6	4948.9	4970.0	4876.3
35°	6326.7	6390.0	6298.6	6230.6	6153.3	5940.1	5675.3	5804.2	5532.4	5480.8	5237.1
37.5°	6617.3	6598.5	6706.3	6636.0	6619.6	6469.6	6179.1	6204.9	6022.1	6010.4	5729.2
40°	6877.4	6882.1	7029.7	7062.5	6996.9	6729.7	6308.0	6511.8	6659.5	6673.5	6312.7
42.5°	7092.9	7156.2	7282.7	7547.5	7449.1	7003.9	6441.5	6664.1	7212.5	7299.2	6865.7
45°	7280.4	7409.3	7566.3	7802.9	7746.7	7392.9	6774.3	6978.1	7802.9	8030.2	7385.9
47.5°	7292.1	7460.8	7631.9	7983.4	8053.7	7601.4	7118.7	7474.9	8271.6	8517.6	7765.5
50°	7245.3	7334.3	7676.4	8058.4	8217.7	7941.2	7601.4	7892.0	8726.2	8880.8	7957.6
52.5°	6689.9	6757.9	7444.4	8128.7	8512.9	8325.5	8241.1	8473.1	9190.1	9305.0	8138.0
55°	5576.9	5565.2	6509.5	7774.8	8648.9	8894.9	8843.3	8925.4	9726.7	9829.8	8182.5
57.5°	3814.8	4028.0	4843.5	6474.3	7817.0	8761.3	8815.2	8679.3	9101.1	9140.9	7132.8
60°	2057.4	2146.4	2802.5	4320.9	5951.8	7139.8	7280.4	7034.4	7001.6	6889.1	5091.8
62.5°	817.8	862.3	1234.9	2139.4	3243.0	4339.7	4641.9	4541.2	4325.6	4030.4	2636.1
65°	389.0	417.1	613.9	1000.6	1438.7	1809.0	2111.2	2205.0	1626.2	1464.5	869.3
67.5°	264.8	285.9	447.6	571.7	513.2	536.6	698.3	649.1	381.9	325.7	241.4
70°	201.5	215.6	358.5	389.0	229.6	161.7	180.4	168.7	157.0	159.3	157.0
72.5°	142.9	154.7	262.4	229.6	100.8	75.0	96.1	114.8	114.8	114.8	112.5
75°	86.7	98.4	152.3	89.0	39.8	39.8	60.9	77.3	82.0	84.4	79.7
77.5°	44.5	56.2	51.6	25.8	25.8	30.5	44.5	53.9	58.6	58.6	56.2
80°	9.4	9.4	9.4	14.1	25.8	32.8	44.5	49.2	56.2	56.2	51.6
82.5°	0.0	2.3	7.0	14.1	23.4	30.5	42.2	49.2	56.2	58.6	53.9
85°	0.0	2.3	4.7	9.4	16.4	18.7	16.4	14.1	14.1	14.1	14.1
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6	3369.6
2.5°	3402.4	3409.4	3397.7	3395.3	3386.0	3414.1	3346.1	3329.7	3371.9	3332.1	3341.4
5°	3446.9	3463.3	3442.2	3407.1	3355.5	3275.8	3207.9	3118.8	3076.7	3046.2	3041.5
7.5°	3479.7	3491.4	3470.3	3357.8	3203.2	3001.7	2851.7	2741.6	2654.9	2629.1	2586.9
10°	3613.3	3615.6	3510.2	3261.8	2959.5	2694.7	2465.1	2296.4	2209.7	2155.8	2132.3
12.5°	3702.3	3697.6	3484.4	3072.0	2668.9	2317.5	2055.0	1851.1	1771.5	1745.7	1729.3
15°	3814.8	3789.0	3423.5	2877.5	2294.0	1914.4	1677.8	1537.2	1530.1	1513.7	1530.1
17.5°	3903.8	3831.2	3334.4	2523.7	1935.5	1577.0	1422.3	1431.7	1450.5	1466.9	1469.2
20°	4049.1	3899.1	3130.6	2214.3	1602.8	1352.0	1349.7	1391.9	1438.7	1457.5	1476.2
22.5°	4159.2	3927.2	2912.6	1884.0	1331.0	1260.7	1300.5	1363.8	1398.9	1417.7	1445.8
25°	4199.1	3849.9	2622.1	1553.6	1199.7	1218.5	1279.4	1321.6	1366.1	1387.2	1375.5
27.5°	4238.9	3810.1	2275.3	1279.4	1129.4	1190.4	1241.9	1284.1	1298.1	1326.3	1345.0
30°	4335.0	3671.8	1963.6	1106.0	1094.3	1171.6	1209.1	1223.2	1260.7	1277.1	1277.1
32.5°	4412.3	3617.9	1633.2	1024.0	1089.6	1181.0	1185.7	1185.7	1190.4	1178.6	1174.0
35°	4571.6	3432.8	1338.0	974.8	1087.3	1183.3	1195.0	1155.2	1047.4	1005.2	993.5
37.5°	4768.5	3313.3	1120.1	963.1	1103.7	1211.4	1230.2	1080.2	939.6	871.7	860.0
40°	5007.5	3229.0	977.1	958.4	1141.2	1277.1	1220.8	1021.6	838.9	740.5	735.8
42.5°	5286.3	3151.6	881.1	956.0	1188.0	1345.0	1211.4	972.4	735.8	670.2	679.5
45°	5508.9	3109.5	815.4	939.6	1204.4	1384.8	1218.5	885.7	693.6	651.4	656.1
47.5°	5682.3	3020.4	761.5	911.5	1202.1	1398.9	1155.2	850.6	672.5	684.2	695.9
50°	5687.0	2900.9	693.6	850.6	1166.9	1373.1	1082.6	817.8	667.8	717.0	740.5
52.5°	5623.7	2732.2	621.0	763.9	1084.9	1284.1	1017.0	803.7	646.7	642.0	670.2
55°	5398.8	2415.9	499.1	618.6	916.2	1059.1	958.4	778.0	583.5	529.6	534.3
57.5°	4363.1	1731.6	367.9	442.9	649.1	775.6	864.7	766.2	524.9	449.9	452.2
60°	2701.7	981.8	269.5	302.3	400.7	471.0	700.6	712.3	468.6	379.6	374.9
62.5°	1387.2	485.0	208.5	213.2	246.0	276.5	480.4	597.5	424.1	360.9	360.9
65°	464.0	239.0	182.8	164.0	164.0	171.1	290.6	414.8	358.5	302.3	302.3
67.5°	199.2	178.1	159.3	142.9	131.2	124.2	164.0	241.4	267.1	229.6	220.3
70°	154.7	150.0	138.3	119.5	103.1	93.7	96.1	124.2	152.3	147.6	142.9
72.5°	114.8	114.8	110.1	93.7	79.7	68.0	63.3	65.6	72.6	75.0	77.3
75°	79.7	82.0	82.0	72.6	58.6	49.2	42.2	35.1	28.1	23.4	21.1
77.5°	53.9	56.2	60.9	53.9	44.5	32.8	25.8	18.7	11.7	4.7	4.7
80°	46.9	53.9	58.6	53.9	46.9	35.1	25.8	14.1	7.0	0.0	0.0
82.5°	49.2	53.9	60.9	51.6	44.5	32.8	25.8	16.4	7.0	2.3	0.0
85°	11.7	11.7	14.1	16.4	21.1	23.4	18.7	11.7	7.0	2.3	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	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)