

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: P651974

Luminaire Tested: **GALN-SA6A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651974
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-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 13870.6 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

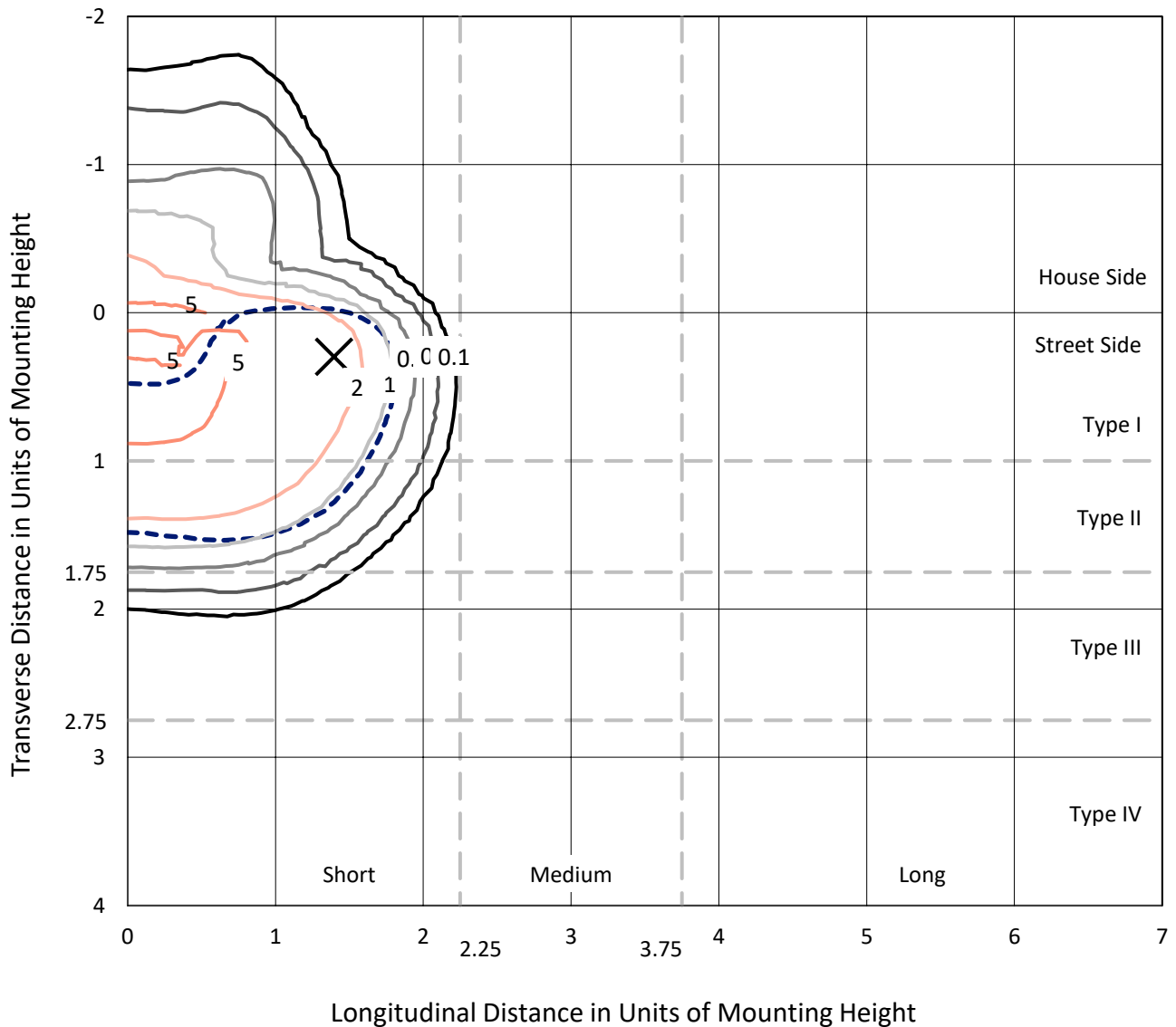
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651974
 CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

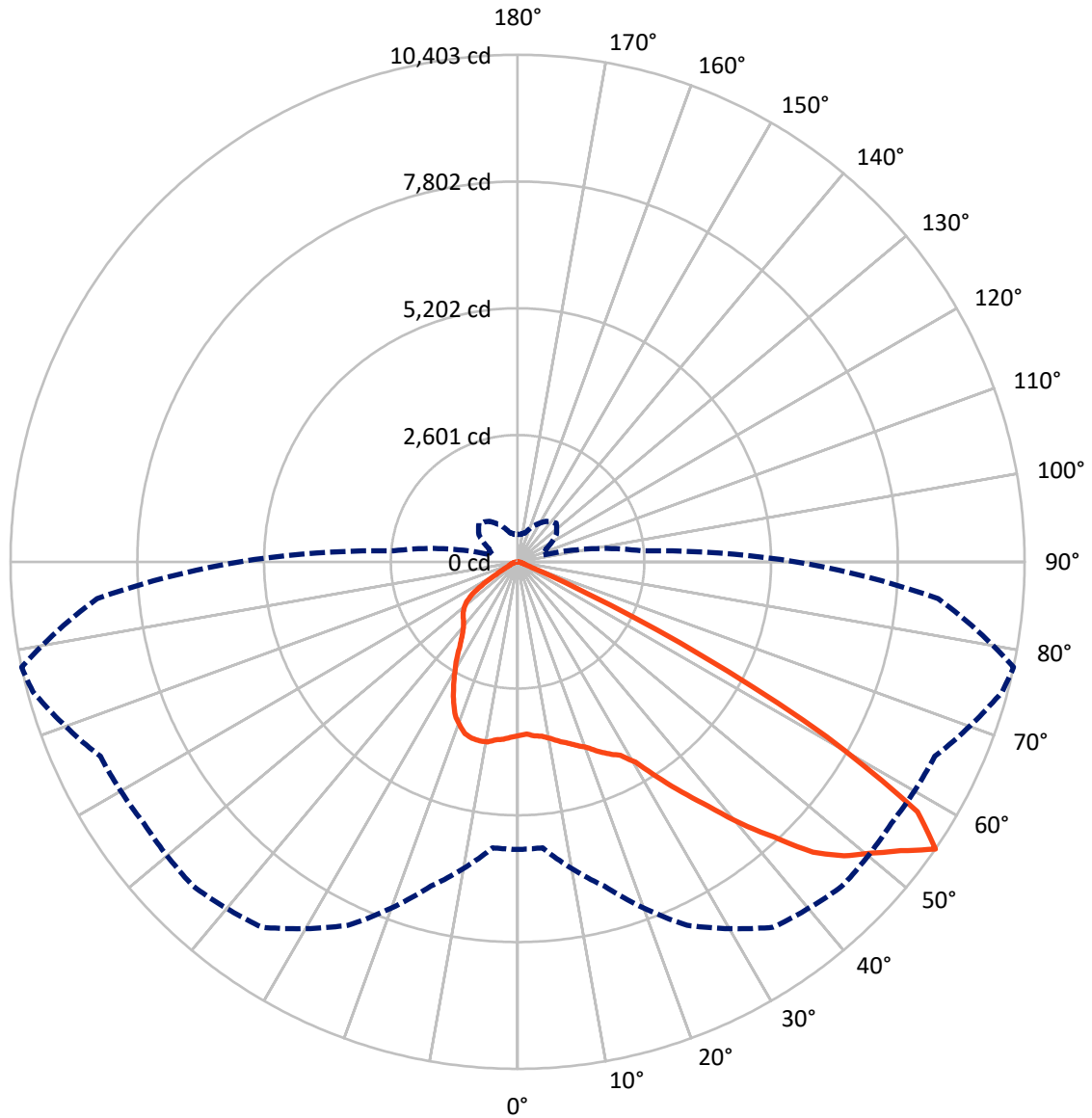
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P651974
CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P651974
 CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

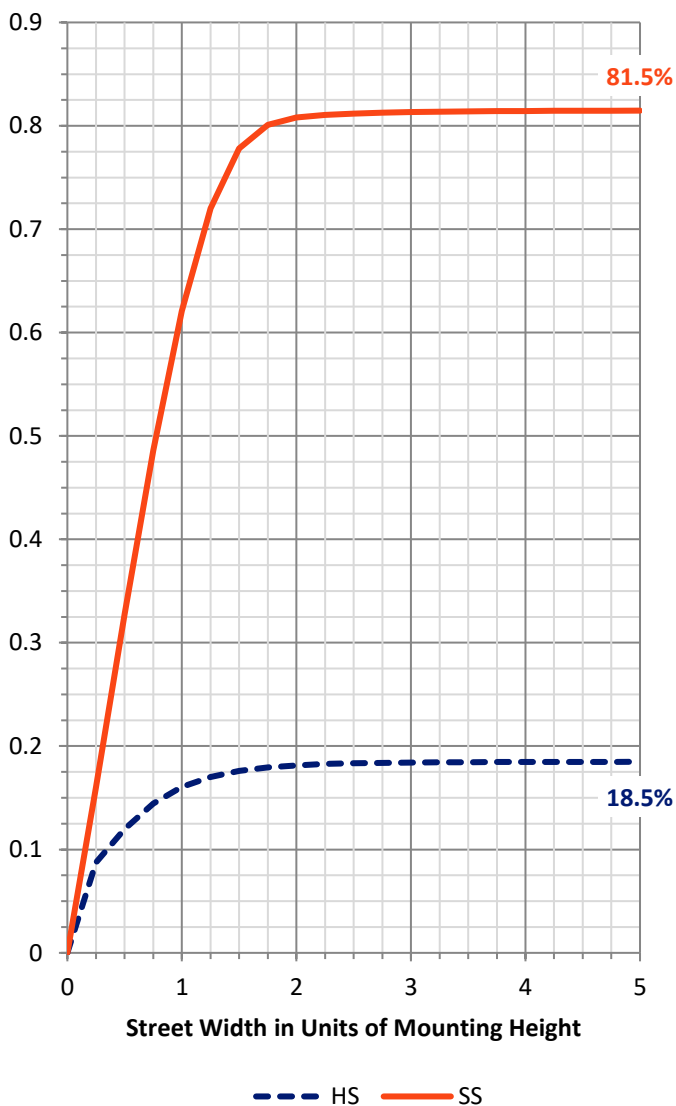
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.3	0.0	2576.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11294.3	0.0	11294.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	13870.6	0.0	13870.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	2.3
10°-20°	841.6	6.1
20°-30°	1475.1	10.6
30°-40°	2432.3	17.5
40°-50°	3539.2	25.5
50°-60°	4010.3	28.9
60°-70°	1146.6	8.3
70°-80°	89.0	0.6
80°-90°	18.5	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°	13870.6	100.0
0°-180°	13870.6	100.0

Coefficient of Utilization



REPORT NUMBER: P651974

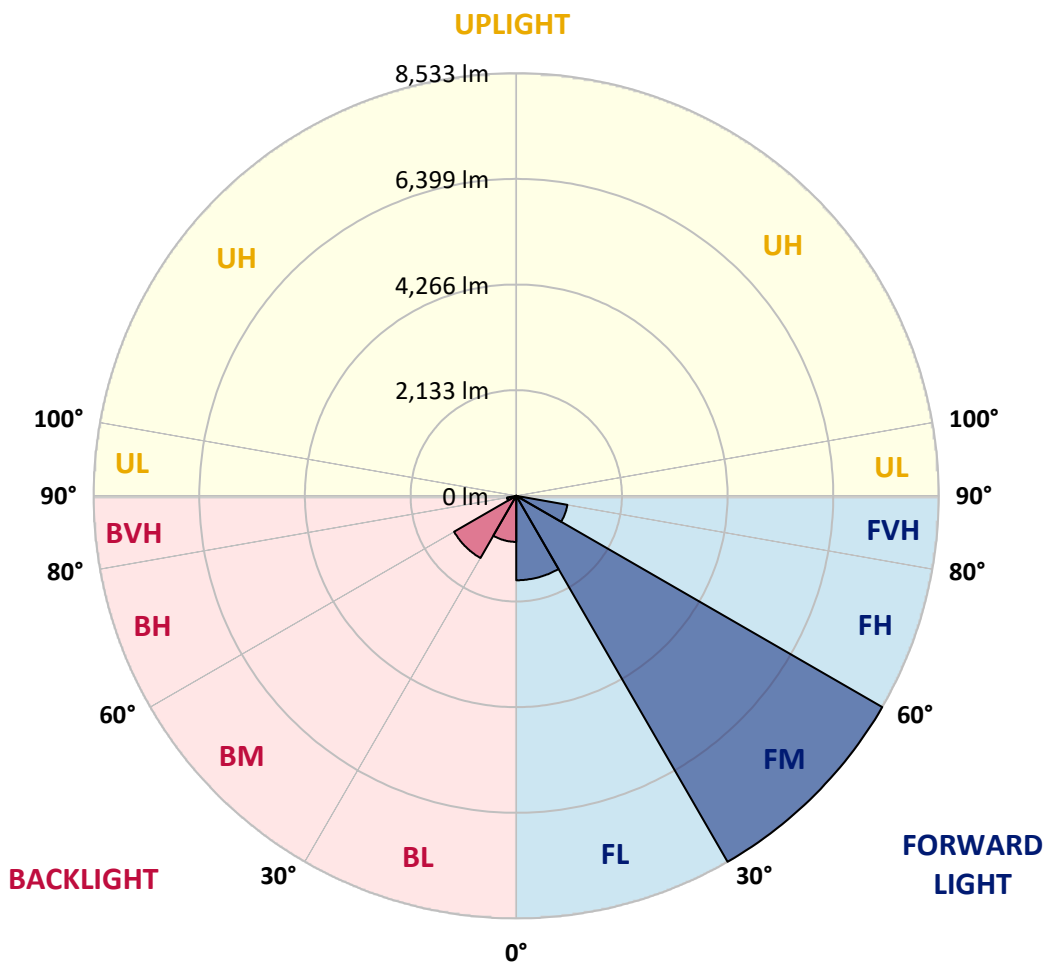
CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.1	12.3			
FM (30°-60°)	8532.6	61.5			
FH (60°-80°)	1047.6	7.6			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	929.5	6.7	B2/1000		
BM (30°-60°)	1449.2	10.4	B2/2500		
BH (60°-80°)	188.1	1.4	B1/500		G1/500
BVH (80°-90°)	9.5	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





REPORT NUMBER: P651974

CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2
2.5°	3352.9	3385.1	3390.1	3429.8	3427.2	3494.2	3514.0	3516.6	3561.2	3538.8	3595.9
5°	3258.6	3241.3	3233.8	3303.3	3323.1	3382.6	3432.2	3462.0	3553.7	3586.0	3645.5
7.5°	3174.4	3174.4	3179.2	3241.3	3233.8	3310.7	3362.8	3454.6	3588.5	3615.7	3687.7
10°	3092.4	3062.8	3099.9	3164.4	3218.9	3253.7	3362.8	3449.6	3605.8	3685.2	3784.4
12.5°	3050.3	3065.2	3070.2	3117.3	3176.8	3280.9	3340.5	3484.3	3729.8	3776.9	3883.6
15°	3315.6	3285.9	3214.0	3171.8	3221.5	3271.1	3419.8	3566.2	3794.3	3861.3	3980.3
17.5°	3623.2	3598.4	3538.8	3424.8	3313.2	3405.0	3521.5	3655.4	3863.7	3963.0	4139.0
20°	4024.9	3985.2	3925.7	3702.5	3605.8	3506.6	3630.6	3789.4	3977.8	4067.1	4248.1
22.5°	4503.6	4503.6	4369.7	4099.3	3898.5	3804.2	3856.3	3948.1	4104.2	4225.8	4404.4
25°	5002.0	4987.1	4865.6	4585.4	4245.6	4134.0	4193.6	4258.1	4300.2	4367.1	4486.2
27.5°	5572.4	5485.6	5331.9	5021.9	4721.8	4506.1	4570.5	4513.5	4461.4	4496.2	4667.2
30°	5959.2	6013.8	5818.0	5520.3	5237.6	4997.1	5009.5	4959.9	4721.8	4771.4	4873.1
32.5°	6361.0	6395.7	6286.6	6123.0	5840.2	5560.0	5458.3	5416.2	5237.6	5260.0	5160.7
35°	6695.8	6762.8	6666.0	6594.1	6512.3	6286.6	6006.4	6142.8	5855.1	5800.5	5542.6
37.5°	7003.3	6983.5	7097.5	7023.2	7005.8	6847.1	6539.6	6566.9	6373.4	6361.0	6063.4
40°	7278.6	7283.6	7439.8	7474.6	7405.1	7122.3	6675.9	6891.7	7048.0	7062.9	6680.9
42.5°	7506.8	7573.7	7707.6	7987.9	7883.7	7412.5	6817.3	7053.0	7633.3	7725.0	7266.2
45°	7705.2	7841.6	8007.7	8258.2	8198.7	7824.2	7169.5	7385.2	8258.2	8498.7	7816.8
47.5°	7717.5	7896.1	8077.1	8449.1	8523.5	8044.9	7534.0	7911.0	8754.1	9014.6	8218.5
50°	7668.0	7762.2	8124.2	8528.5	8697.1	8404.4	8044.9	8352.4	9235.3	9398.9	8421.9
52.5°	7080.2	7152.1	7878.7	8602.9	9009.6	8811.2	8721.9	8967.4	9726.3	9847.8	8612.8
55°	5902.2	5889.9	6889.2	8228.4	9153.4	9413.8	9359.2	9446.0	10294.2	10403.3	8659.9
57.5°	4037.3	4263.0	5126.0	6852.0	8273.1	9272.4	9329.5	9185.7	9632.1	9674.2	7548.9
60°	2177.3	2271.6	2966.0	4573.0	6299.0	7556.4	7705.2	7444.8	7410.1	7291.0	5388.9
62.5°	865.5	912.7	1306.9	2264.1	3432.2	4592.9	4912.8	4806.1	4578.0	4265.5	2789.9
65°	411.7	441.4	649.8	1058.9	1522.7	1914.5	2234.5	2333.6	1721.1	1550.0	920.1
67.5°	280.2	302.6	473.7	605.1	543.1	567.9	739.0	686.9	404.3	344.7	255.4
70°	213.3	228.2	379.5	411.7	243.0	171.1	191.0	178.5	166.2	168.6	166.2
72.5°	151.3	163.7	277.8	243.0	106.6	79.4	101.7	121.5	121.5	121.5	119.0
75°	91.8	104.1	161.2	94.3	42.1	42.1	64.5	81.8	86.8	89.3	84.4
77.5°	47.1	59.5	54.6	27.2	27.2	32.2	47.1	57.0	62.0	62.0	59.5
80°	9.9	9.9	9.9	14.9	27.2	34.7	47.1	52.1	59.5	59.5	54.6
82.5°	0.0	2.4	7.4	14.9	24.8	32.2	44.7	52.1	59.5	62.0	57.0
85°	0.0	2.4	5.0	9.9	17.3	19.8	17.3	14.9	14.9	14.9	14.9
87.5°	0.0	0.0	2.4	2.4	2.4	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651974

CATALOG NUMBER: GALN-SA6A-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2	3566.2
2.5°	3600.8	3608.3	3595.9	3593.4	3583.5	3613.3	3541.4	3524.0	3568.6	3526.5	3536.4
5°	3648.0	3665.3	3643.0	3605.8	3551.3	3466.9	3395.0	3300.8	3256.2	3223.9	3218.9
7.5°	3682.7	3695.1	3672.8	3553.7	3390.1	3176.8	3018.1	2901.5	2809.8	2782.4	2737.9
10°	3824.0	3826.6	3714.9	3452.1	3132.1	2851.9	2608.9	2430.3	2338.6	2281.5	2256.7
12.5°	3918.3	3913.3	3687.7	3251.2	2824.7	2452.7	2174.9	1959.1	1874.8	1847.5	1830.2
15°	4037.3	4010.1	3623.2	3045.3	2427.9	2026.1	1775.6	1626.8	1619.4	1602.0	1619.4
17.5°	4131.6	4054.7	3528.9	2670.8	2048.4	1669.0	1505.3	1515.2	1535.1	1552.4	1554.9
20°	4285.3	4126.6	3313.2	2343.5	1696.3	1431.0	1428.4	1473.1	1522.7	1542.5	1562.3
22.5°	4401.9	4156.4	3082.5	1993.8	1408.6	1334.2	1376.4	1443.3	1480.5	1500.3	1530.1
25°	4444.0	4074.6	2775.0	1644.2	1269.7	1289.6	1354.0	1398.7	1445.8	1468.1	1455.7
27.5°	4486.2	4032.3	2408.0	1354.0	1195.3	1259.8	1314.4	1359.0	1373.9	1403.6	1423.5
30°	4587.9	3886.1	2078.2	1170.5	1158.1	1240.0	1279.7	1294.6	1334.2	1351.6	1351.6
32.5°	4669.7	3829.0	1728.5	1083.7	1153.2	1249.9	1254.9	1254.9	1259.8	1247.4	1242.4
35°	4838.4	3633.1	1416.1	1031.7	1150.7	1252.3	1264.8	1222.6	1108.5	1063.9	1051.5
37.5°	5046.7	3506.6	1185.4	1019.3	1168.1	1282.1	1302.0	1143.3	994.5	922.5	910.1
40°	5299.6	3417.3	1034.1	1014.3	1207.8	1351.6	1292.0	1081.3	887.8	783.6	778.7
42.5°	5594.8	3335.5	932.4	1011.8	1257.3	1423.5	1282.1	1029.1	778.7	709.3	719.1
45°	5830.3	3290.8	863.0	994.5	1274.7	1465.6	1289.6	937.4	734.0	689.5	694.4
47.5°	6013.8	3196.6	806.0	964.7	1272.2	1480.5	1222.6	900.2	711.7	724.1	736.5
50°	6018.8	3070.2	734.0	900.2	1235.0	1453.2	1145.7	865.5	706.8	758.8	783.6
52.5°	5951.8	2891.6	657.2	808.5	1148.2	1359.0	1076.3	850.6	684.5	679.5	709.3
55°	5713.8	2556.8	528.2	654.7	969.7	1121.0	1014.3	823.3	617.5	560.4	565.4
57.5°	4617.6	1832.7	389.4	468.7	686.9	820.8	915.1	811.0	555.5	476.2	478.6
60°	2859.4	1039.1	285.2	319.9	424.0	498.5	741.5	753.9	496.0	401.7	396.8
62.5°	1468.1	513.3	220.7	225.6	260.4	292.7	508.4	632.3	448.8	381.9	381.9
65°	491.1	253.0	193.4	173.6	173.6	181.1	307.5	438.9	379.5	319.9	319.9
67.5°	210.8	188.5	168.6	151.3	138.8	131.4	173.6	255.4	282.7	243.0	233.1
70°	163.7	158.7	146.3	126.5	109.1	99.2	101.7	131.4	161.2	156.3	151.3
72.5°	121.5	121.5	116.6	99.2	84.4	71.9	66.9	69.5	76.9	79.4	81.8
75°	84.4	86.8	86.8	76.9	62.0	52.1	44.7	37.2	29.8	24.8	22.3
77.5°	57.0	59.5	64.5	57.0	47.1	34.7	27.2	19.8	12.4	5.0	5.0
80°	49.6	57.0	62.0	57.0	49.6	37.2	27.2	14.9	7.4	0.0	0.0
82.5°	52.1	57.0	64.5	54.6	47.1	34.7	27.2	17.3	7.4	2.4	0.0
85°	12.4	12.4	14.9	17.3	22.3	24.8	19.8	12.4	7.4	2.4	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	2.4	2.4	2.4	2.4	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)