

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: P652458

Luminaire Tested: **GALN-SA6B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652458
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-SA6B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 16740.1 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

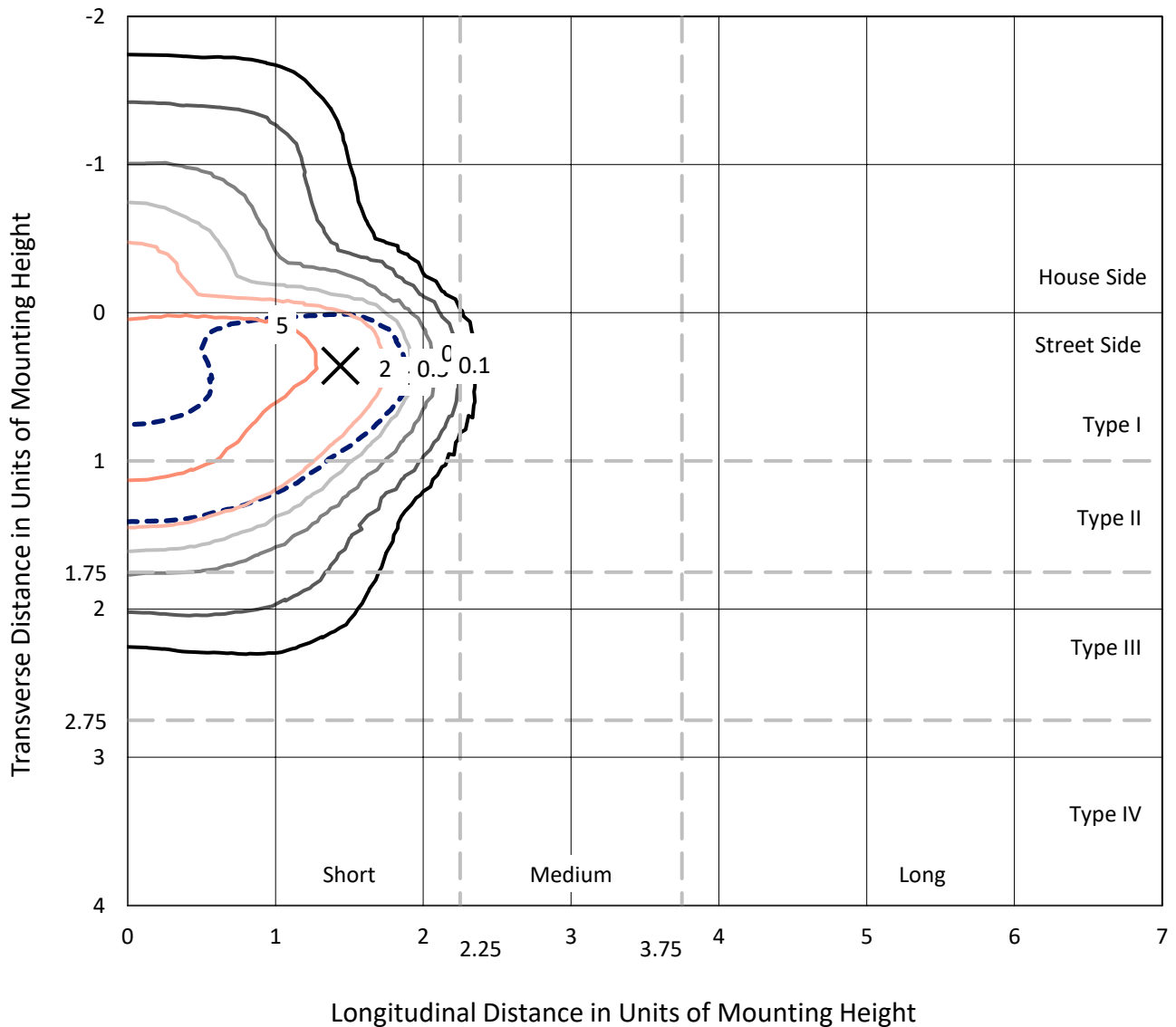
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

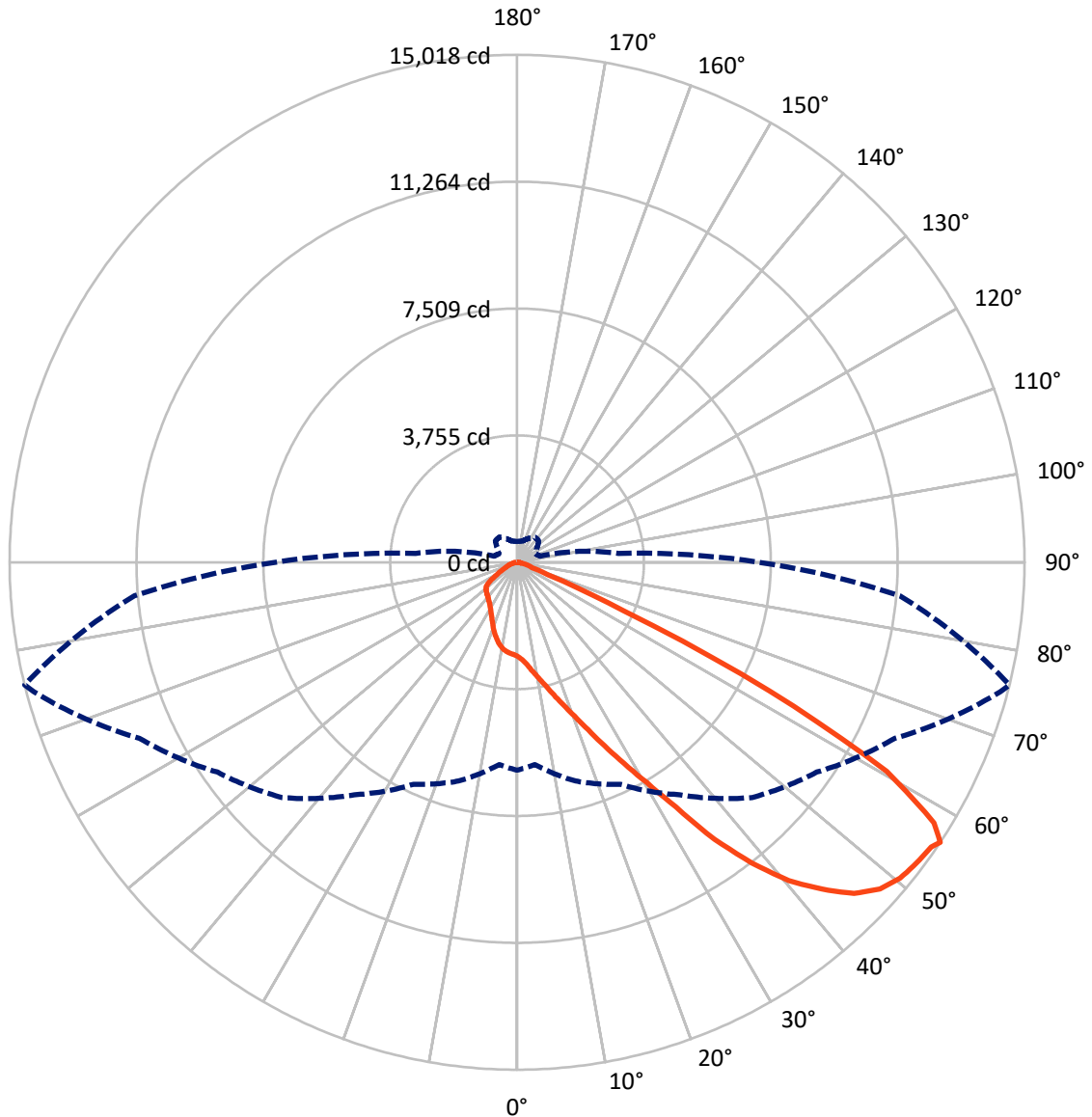
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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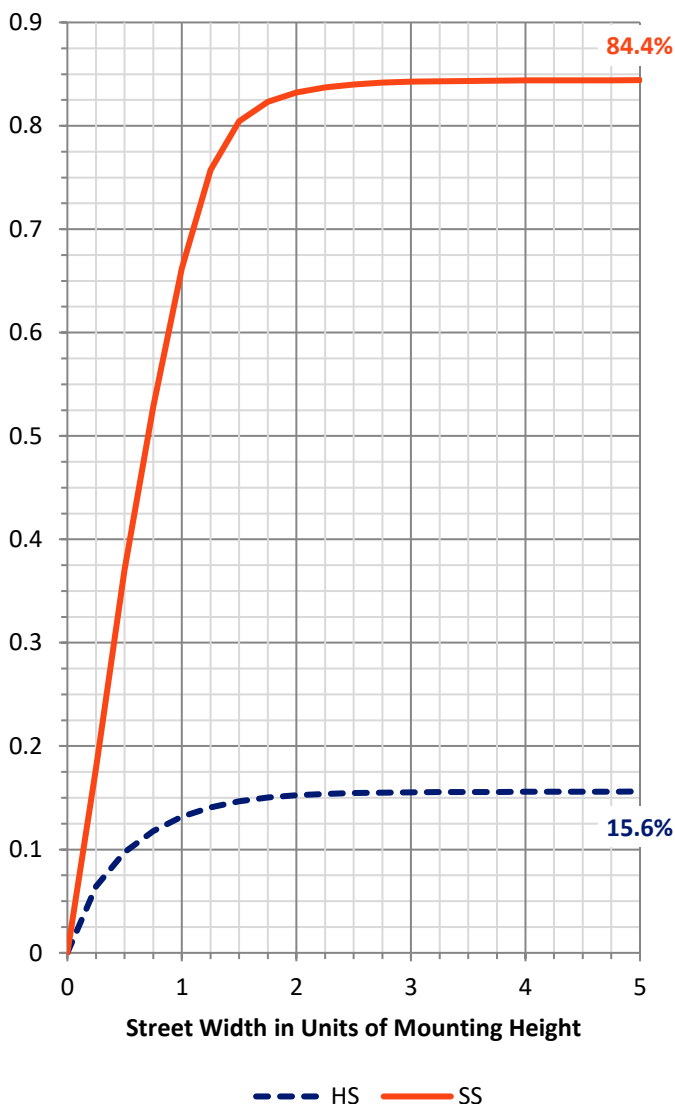
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2629.8	0.0	2629.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14110.3	0.0	14110.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	16740.1	0.0	16740.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	1.7
10°-20°	901.8	5.4
20°-30°	1635.1	9.8
30°-40°	2819.9	16.8
40°-50°	4581.0	27.4
50°-60°	4828.5	28.8
60°-70°	1475.3	8.8
70°-80°	189.1	1.1
80°-90°	28.7	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°	16740.1	100.0
0°-180°	16740.1	100.0

Coefficient of Utilization



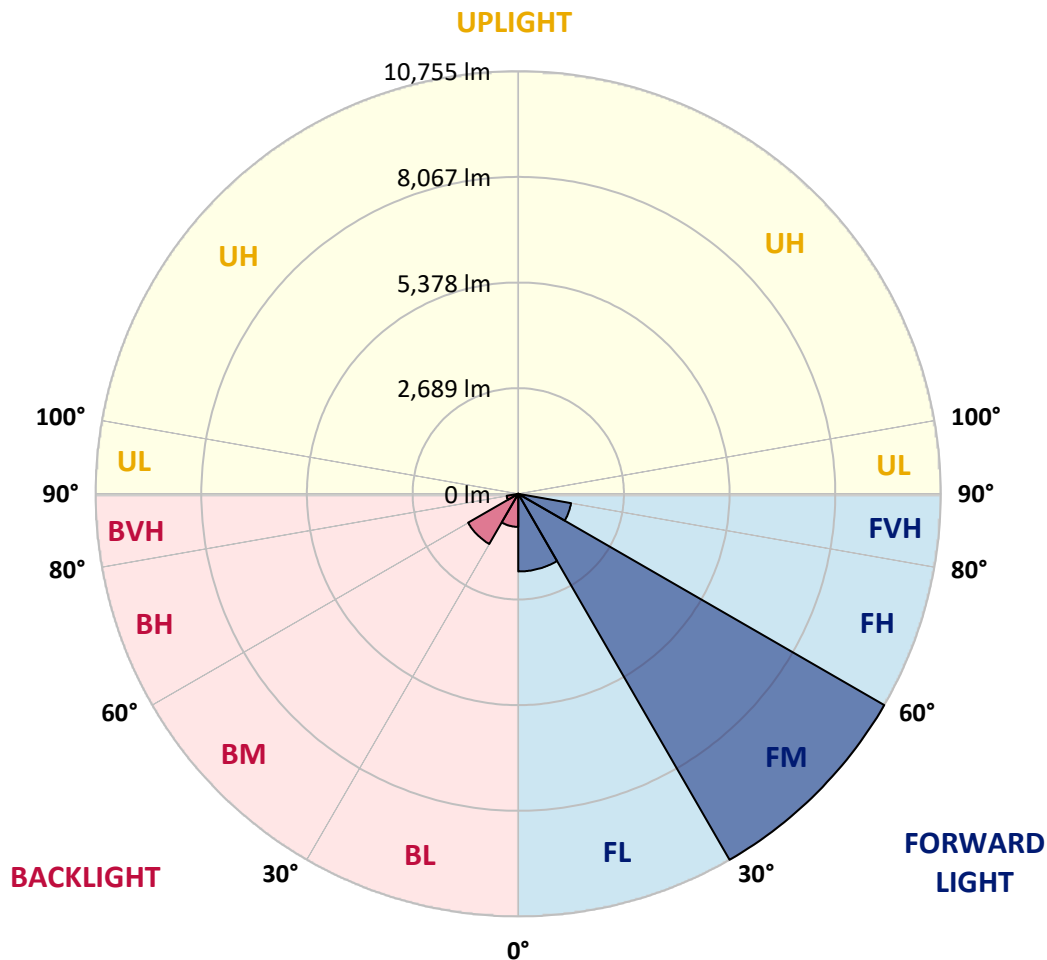
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.3	11.8			
FM (30°-60°)	10755.5	64.2			
FH (60°-80°)	1364.4	8.2			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	841.3	5.0	B2/1000		
BM (30°-60°)	1473.8	8.8	B2/2500		
BH (60°-80°)	300.0	1.8	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
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°	76°	85°
0°	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4
2.5°	3209.2	3135.1	3138.2	3132.1	3122.8	3088.8	2987.0	2971.6	2903.6	2885.1	2823.4
5°	3594.9	3530.1	3567.1	3511.6	3459.1	3428.3	3261.7	3184.4	3076.5	3036.3	2950.0
7.5°	3835.5	3804.7	3792.4	3795.4	3746.1	3668.9	3594.9	3425.1	3280.2	3249.3	3067.2
10°	3952.8	3934.3	3952.8	3943.5	3965.1	3974.4	3844.8	3743.0	3530.1	3477.6	3193.7
12.5°	3980.6	4017.6	4033.0	4073.1	4125.6	4215.1	4205.8	4067.0	3783.1	3749.2	3388.1
15°	4048.5	4079.4	4063.9	4128.7	4227.5	4378.7	4458.9	4437.3	4131.8	4070.1	3613.4
17.5°	4110.2	4054.6	4107.1	4236.7	4335.4	4566.9	4761.3	4850.8	4511.4	4440.4	3820.2
20°	4193.5	4178.1	4168.8	4233.6	4409.5	4718.1	5103.8	5267.4	4937.2	4863.1	4116.4
22.5°	4446.5	4449.6	4443.4	4347.8	4474.3	4823.0	5403.1	5807.4	5446.3	5384.6	4452.7
25°	4779.8	4739.7	4708.8	4631.7	4616.2	4918.7	5705.5	6467.7	6057.3	6014.1	4816.8
27.5°	5131.5	5131.5	5039.0	4968.0	4869.3	5156.3	5983.2	7109.6	6794.8	6736.2	5134.6
30°	5514.2	5535.8	5523.4	5372.2	5310.6	5415.5	6267.1	7930.3	7640.2	7566.2	5659.3
32.5°	6078.9	6032.6	6085.1	5958.6	5776.5	5869.1	6714.5	8664.7	8738.8	8633.9	6347.4
35°	6825.6	6797.9	6763.9	6557.2	6341.1	6415.2	7347.1	9568.8	10118.2	10065.7	7041.6
37.5°	7495.2	7479.9	7452.0	7310.1	7060.2	7149.7	8066.1	10510.0	11463.5	11290.7	8022.9
40°	8198.8	8282.1	8192.6	8066.1	7837.8	8035.3	8911.6	11068.5	12596.0	12386.2	8772.7
42.5°	9152.3	9087.5	9127.6	8896.2	8772.7	8988.8	9760.1	11627.1	13475.4	13225.5	9568.8
45°	10167.5	10170.5	10062.6	9988.5	9667.6	9902.1	10281.6	11935.6	14175.8	13981.5	10170.5
47.5°	10818.5	10815.5	10932.7	11050.0	10719.8	10488.4	10636.5	12228.7	14536.9	14447.4	10389.6
50°	10716.8	10747.6	10898.8	11337.0	11509.8	11198.1	10969.8	12142.4	14700.4	14691.2	10577.9
52.5°	9322.0	9423.8	9676.9	10309.4	11179.6	11565.3	11318.4	12302.8	14780.7	14796.0	10858.7
55°	7097.2	7152.7	7634.1	8402.4	9365.2	10685.9	11179.6	12429.3	14842.4	14870.1	11198.1
56°	6156.0	6007.9	6702.2	7248.4	8399.4	9843.5	10827.8	12330.6	14805.3	15018.2	11367.8
57.5°	4647.1	4548.4	5110.0	5791.9	6899.7	8424.0	9735.5	11864.7	14555.4	14552.3	11124.1
60°	2826.5	2727.8	3159.8	3561.0	4181.2	5187.1	6578.8	9448.6	12305.9	12565.1	9007.3
62.5°	1681.7	1743.5	2169.3	2413.1	2613.6	2718.5	3403.5	5616.0	8211.1	8396.3	5588.3
65°	1120.1	1141.7	1462.7	1863.7	1953.3	1555.2	1385.5	2274.1	3561.0	3446.8	2305.0
67.5°	691.2	740.6	981.3	1400.9	1552.1	1135.5	657.2	848.6	981.3	981.3	666.5
70°	419.7	444.4	654.2	953.5	1064.5	731.3	478.3	478.3	472.1	462.9	398.0
72.5°	200.6	216.0	333.3	490.6	499.9	385.7	370.3	404.3	394.9	391.9	330.2
75°	86.4	92.6	117.2	154.3	175.9	163.6	225.2	290.1	299.3	290.1	237.6
77.5°	27.8	30.9	43.2	55.5	58.6	71.0	95.6	120.3	138.8	129.6	117.2
80°	3.1	6.1	12.4	27.8	43.2	55.5	71.0	80.2	89.5	89.5	83.3
82.5°	3.1	3.1	12.4	24.7	40.1	52.5	67.9	77.1	89.5	92.6	86.4
85°	0.0	3.1	9.3	21.6	34.0	34.0	30.9	30.9	21.6	21.6	21.6
87.5°	0.0	0.0	3.1	3.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4	2786.4
2.5°	2811.1	2804.9	2721.6	2669.2	2641.4	2585.8	2551.9	2527.2	2508.7	2487.1	2490.2
5°	2848.1	2826.5	2687.7	2592.0	2477.8	2416.1	2363.6	2320.5	2292.7	2286.5	2274.1
7.5°	2953.0	2838.9	2629.1	2456.2	2311.2	2249.5	2203.3	2175.4	2187.8	2160.0	2181.6
10°	3033.2	2863.5	2558.1	2308.1	2163.1	2116.8	2092.2	2113.7	2144.5	2132.3	2116.8
12.5°	3132.1	2888.2	2443.9	2166.2	2030.4	1996.4	2039.7	2079.8	2141.5	2166.2	2135.3
15°	3243.1	2916.0	2298.9	2002.7	1916.2	1944.0	2018.1	2089.0	2150.8	2181.6	2200.1
17.5°	3378.9	2906.7	2156.9	1873.1	1808.2	1888.5	1977.9	2042.8	2135.3	2181.6	2169.3
20°	3505.4	2875.9	1999.6	1743.5	1746.5	1820.6	1894.6	1999.6	2048.9	2110.7	2089.0
22.5°	3625.7	2820.4	1836.0	1653.9	1653.9	1768.1	1805.1	1873.1	1916.2	1947.1	1944.0
25°	3795.4	2715.4	1700.2	1567.5	1604.5	1678.6	1709.5	1731.1	1712.6	1737.3	1740.4
27.5°	3915.8	2607.4	1589.2	1490.4	1558.3	1613.9	1604.5	1592.3	1549.0	1515.1	1536.7
30°	4045.4	2481.0	1493.5	1437.9	1474.9	1524.3	1487.3	1450.3	1382.4	1326.8	1330.0
32.5°	4230.6	2422.3	1410.2	1376.2	1425.6	1431.8	1391.7	1336.1	1268.2	1215.7	1212.7
35°	4576.1	2385.2	1339.2	1336.1	1345.3	1348.5	1308.3	1240.5	1212.7	1169.5	1184.9
37.5°	4921.7	2366.7	1289.8	1277.5	1274.4	1277.5	1231.2	1166.4	1218.9	1215.7	1222.0
40°	5363.0	2450.1	1218.9	1203.5	1206.5	1206.5	1147.9	1129.4	1222.0	1231.2	1234.3
42.5°	5810.5	2555.0	1172.6	1123.2	1135.5	1135.5	1104.7	1083.1	1147.9	1086.2	1076.9
45°	6199.3	2709.3	1123.2	1043.0	1073.9	1089.3	1080.0	1043.0	1002.9	897.9	897.9
47.5°	6325.7	2845.0	1064.5	965.8	990.5	1058.4	1030.6	953.5	882.5	796.1	790.0
50°	6547.9	2993.1	1018.3	876.3	928.8	1012.1	984.3	907.2	827.0	765.2	768.3
52.5°	6776.3	3162.9	931.9	771.4	836.2	975.1	975.1	888.7	765.2	722.1	715.9
55°	7118.8	3156.7	777.6	632.6	746.7	919.5	934.9	796.1	685.0	651.1	651.1
56°	7168.2	3014.7	700.5	592.5	706.6	904.2	907.2	771.4	654.2	617.1	617.1
57.5°	6797.9	2721.6	614.1	543.1	657.2	876.3	879.4	749.8	629.5	577.0	570.9
60°	5230.3	1842.2	512.3	484.5	595.5	790.0	805.3	682.0	552.4	512.3	509.1
62.5°	2953.0	1021.4	450.5	438.2	512.3	672.7	719.0	595.5	469.0	447.4	453.6
65°	1348.5	561.6	379.5	354.8	413.5	518.4	580.1	490.6	385.7	361.0	361.0
67.5°	493.8	382.7	324.0	280.8	290.1	336.3	376.4	317.8	256.1	219.1	228.3
70°	351.8	320.9	283.9	243.8	225.2	219.1	216.0	179.0	126.5	98.7	105.0
72.5°	283.9	265.3	237.6	206.7	175.9	148.1	126.5	92.6	58.6	40.1	37.0
75°	203.7	194.4	172.8	148.1	123.5	105.0	86.4	58.6	30.9	15.4	15.4
77.5°	105.0	105.0	101.8	92.6	77.1	61.7	49.4	34.0	18.5	6.1	6.1
80°	80.2	86.4	89.5	80.2	71.0	55.5	40.1	24.7	12.4	3.1	3.1
82.5°	77.1	89.5	95.6	83.3	71.0	52.5	40.1	24.7	12.4	3.1	3.1
85°	18.5	18.5	27.8	30.9	40.1	43.2	34.0	21.6	9.3	3.1	3.1
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	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)