

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: P652022

Luminaire Tested: **GALN-SA7A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23539.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

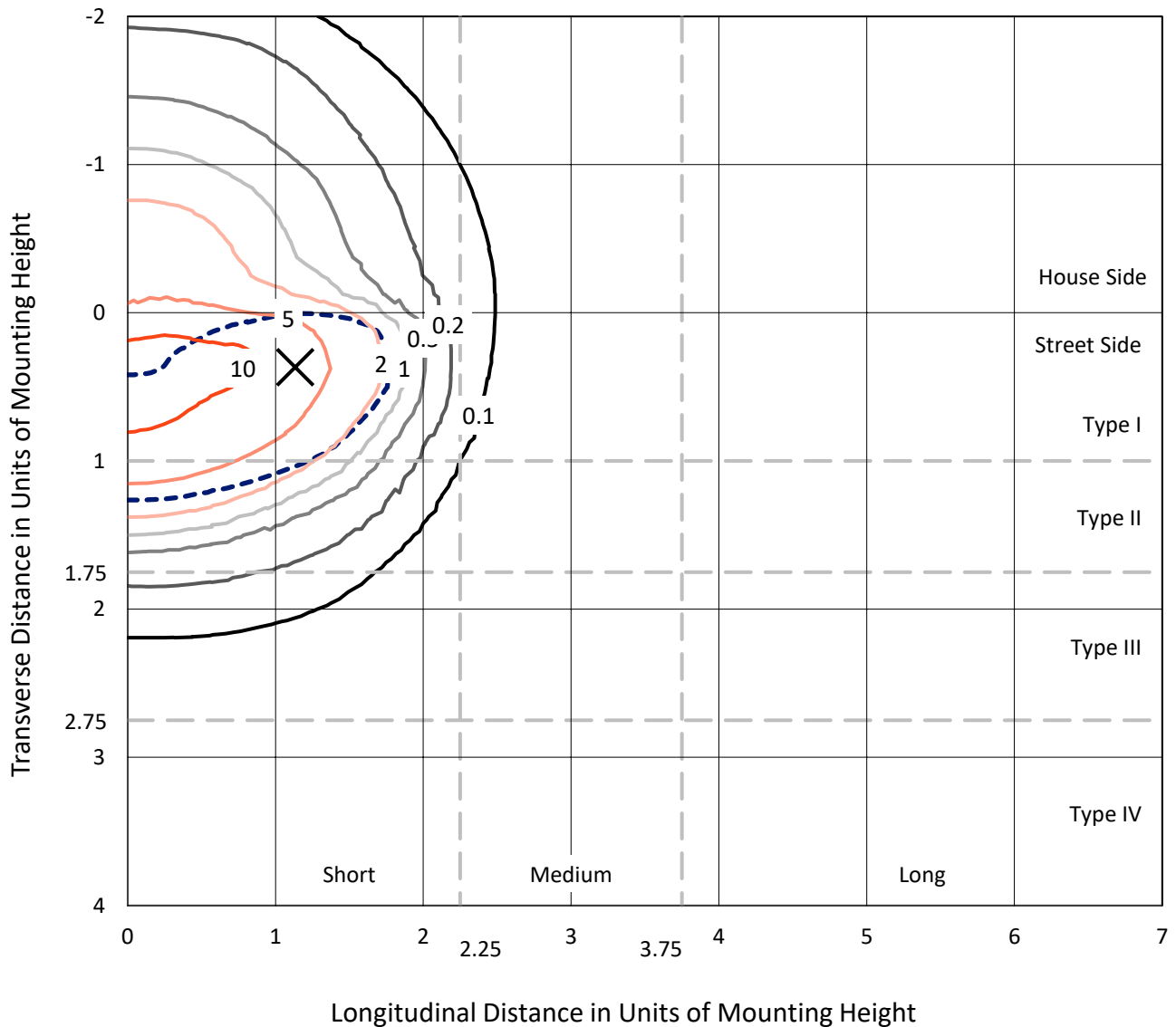
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

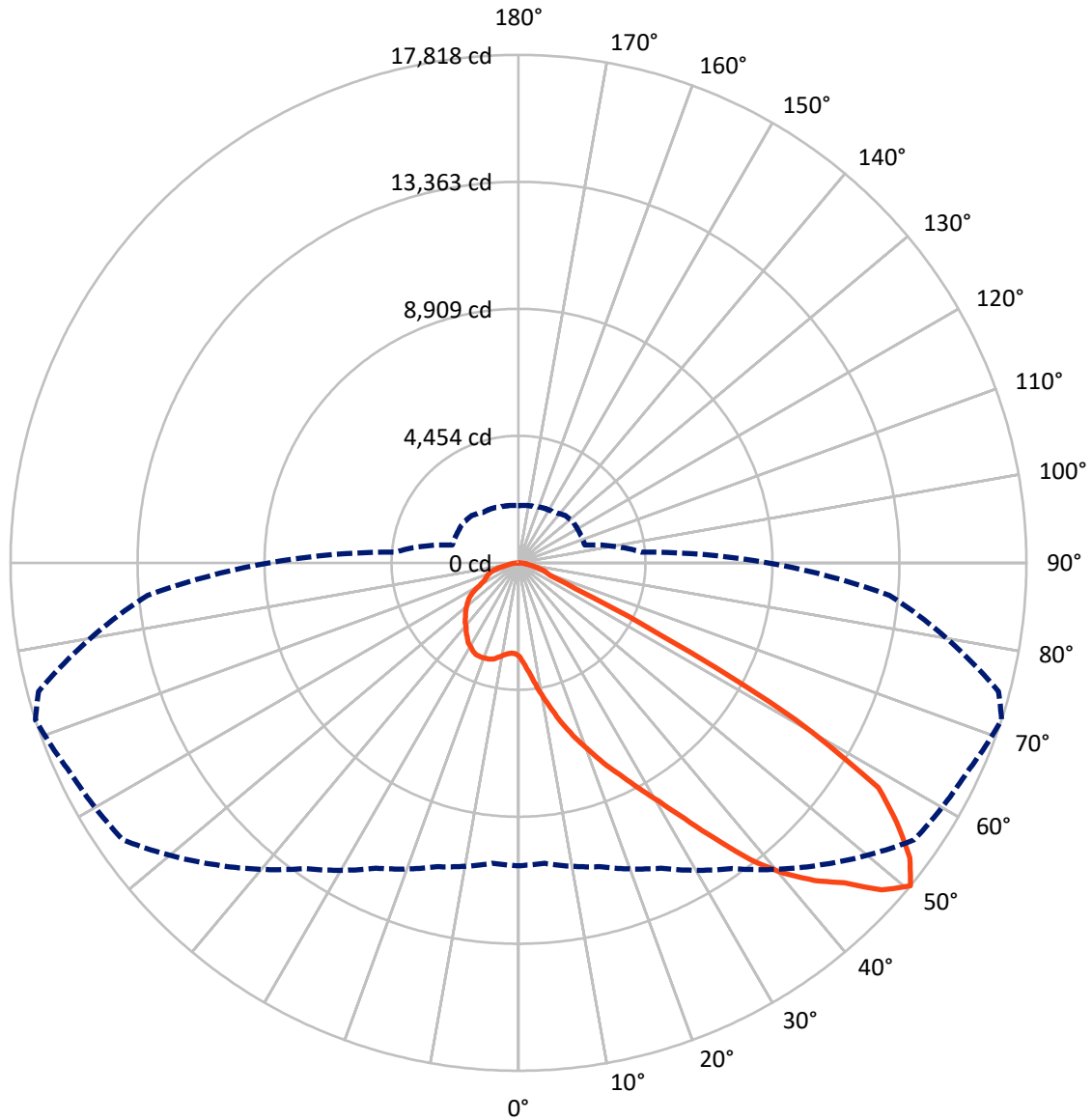
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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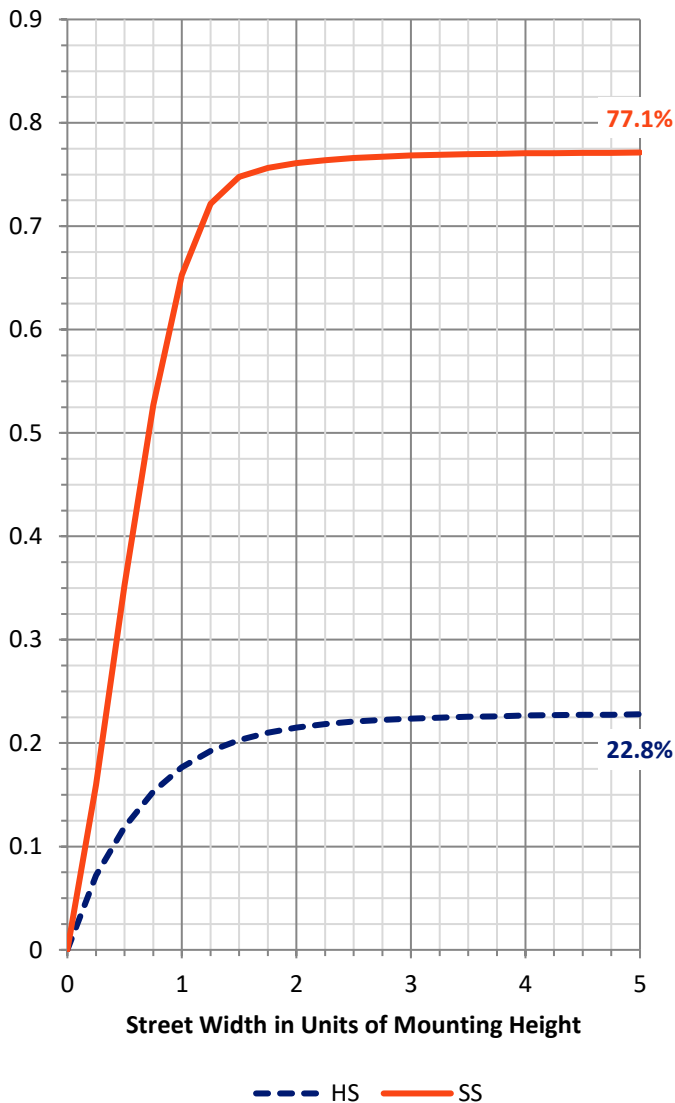
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5393.1	0.0	5393.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18146.5	0.0	18146.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	23539.6	0.0	23539.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	1.6
10°-20°	1440.9	6.1
20°-30°	2793.9	11.9
30°-40°	4628.5	19.7
40°-50°	6476.2	27.5
50°-60°	5463.5	23.2
60°-70°	1665.3	7.1
70°-80°	584.2	2.5
80°-90°	101.6	0.4
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°	23539.6	100.0
0°-180°	23539.6	100.0

Coefficient of Utilization

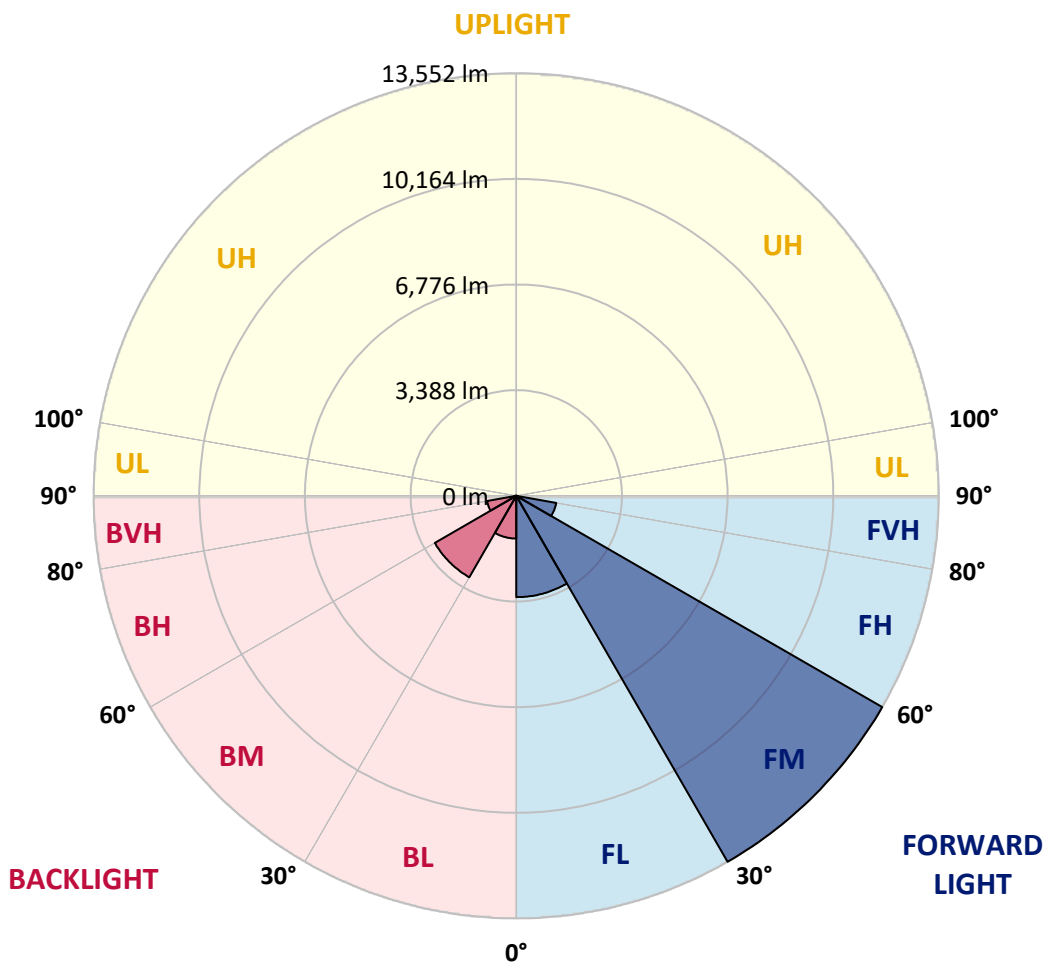


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3249.3	13.8			
FM (30°-60°)	13552.4	57.6			
FH (60°-80°)	1299.3	5.5			G1/1800
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	1370.9	5.8	B3/2500		
BM (30°-60°)	3015.9	12.8	B3/5000		
BH (60°-80°)	950.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	56.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
2.5°	4214.8	4188.6	4110.0	4083.7	3990.5	3821.6	3763.4	3591.5	3518.7	3451.7	3373.0
5°	5330.4	5208.1	5199.4	5050.8	4835.2	4710.0	4337.2	4086.7	3856.6	3740.0	3524.5
7.5°	6041.2	6044.1	6044.1	5921.7	5749.9	5432.4	5097.4	4645.9	4299.3	4127.5	3760.4
10°	6716.9	6658.7	6626.7	6615.0	6498.5	6189.8	5831.4	5272.1	4797.4	4596.4	3938.2
12.5°	7194.7	7145.1	7218.0	7180.0	7095.6	6894.6	6556.8	5918.8	5324.6	5053.7	4223.6
15°	7421.8	7456.8	7515.1	7619.9	7582.0	7506.3	7133.4	6582.9	5892.6	5586.8	4477.0
17.5°	7771.3	7675.2	7745.2	7876.2	7981.1	7946.2	7733.5	7063.6	6454.8	6079.0	4817.8
20°	8016.1	7960.7	7995.6	8147.1	8225.7	8423.9	8313.2	7692.7	6993.7	6597.5	5219.8
22.5°	8715.1	8633.5	8520.0	8543.3	8572.4	8712.3	8738.4	8383.1	7619.9	7200.5	5601.3
25°	9577.3	9501.6	9367.6	9230.7	9146.2	9120.0	9210.3	8924.9	8219.9	7786.0	6012.1
27.5°	10526.9	10398.7	10314.3	10031.7	9804.5	9769.6	9725.9	9571.5	8930.7	8461.7	6475.2
30°	11450.3	11348.3	11234.8	10783.2	10547.3	10509.4	10293.8	10337.6	9702.5	9181.2	6999.5
32.5°	12149.3	12158.1	11898.8	11558.0	11336.7	11135.7	11057.0	11182.3	10692.9	10273.5	7585.0
35°	12714.4	12740.6	12493.1	12184.3	11945.4	12085.3	12050.3	12108.5	11875.5	11362.8	8266.5
37.5°	13264.9	13133.9	12868.8	12720.2	12595.0	12825.1	13122.2	13171.7	13215.4	12612.5	9058.8
40°	13355.2	13366.9	13212.5	13317.4	13160.1	13506.7	14197.0	14132.9	14310.6	13783.4	9918.1
42.5°	13227.1	13253.3	13314.5	13463.0	13841.7	14258.2	15283.5	15021.4	15236.9	14768.0	10754.1
45°	13017.3	12909.6	12985.3	13550.4	14205.8	15132.0	16276.8	16072.9	16003.0	15609.7	11750.3
47.5°	12015.4	12126.0	12361.9	13058.1	14042.7	15283.5	16981.7	16935.0	17144.8	16868.1	12656.1
50°	10626.0	10582.2	11036.6	11820.2	13090.2	14986.4	16943.8	17366.1	17817.7	17433.2	13061.1
52.5°	7957.8	8190.8	8581.1	9554.0	11365.8	13366.9	16116.6	16821.5	17188.5	17106.9	12734.8
55°	5030.4	5100.3	5336.2	6492.7	8123.8	10727.9	13815.4	15449.5	16104.9	16410.8	12434.8
57.5°	2443.9	2312.8	2601.1	3530.3	4692.5	7215.0	10655.0	13457.2	14881.6	15435.0	11782.3
60°	1275.8	1325.3	1439.0	1771.0	2426.4	3745.9	6641.2	8968.5	11144.4	11994.9	8930.7
62.5°	1057.4	1074.8	1150.6	1316.6	1613.7	2155.5	3390.5	4372.1	5682.9	6449.0	5080.0
65°	897.2	905.9	987.4	1098.1	1287.5	1517.6	1744.7	1826.3	2210.8	2269.1	1806.0
67.5°	748.6	757.3	844.7	949.6	1071.9	1133.1	1191.4	1185.5	1229.2	1211.7	1208.9
70°	576.8	585.5	675.7	786.4	847.6	812.7	993.3	1034.0	1051.5	1066.1	1089.4
72.5°	416.5	434.0	503.9	582.6	550.5	632.1	818.5	879.7	903.0	911.7	940.8
75°	302.9	308.7	326.2	302.9	349.5	439.8	576.8	652.4	681.6	690.4	734.0
77.5°	134.0	136.9	139.8	174.8	224.3	273.8	343.7	404.9	445.6	457.3	468.9
80°	69.9	72.8	90.3	119.4	160.2	201.0	250.5	285.4	311.7	314.6	326.2
82.5°	43.7	46.6	64.1	84.4	113.6	148.5	183.5	212.6	233.0	235.9	238.8
85°	20.4	26.2	37.8	52.4	75.8	96.1	99.1	84.4	90.3	93.2	87.4
87.5°	5.8	8.7	11.7	8.7	11.7	11.7	14.5	17.5	17.5	17.5	20.4
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°	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9	3276.9
2.5°	3329.4	3303.1	3201.2	3163.3	3064.3	3081.8	3029.3	3026.4	3014.7	3011.9	3008.9
5°	3410.9	3329.4	3207.0	3113.8	3058.5	3052.7	3014.7	3014.7	3026.4	3035.2	3014.7
7.5°	3544.9	3451.7	3244.8	3157.5	3108.0	3099.3	3073.0	3052.7	3078.8	3070.1	3046.8
10°	3699.3	3536.2	3317.7	3242.0	3160.4	3140.0	3140.0	3148.8	3105.1	3119.6	3096.3
12.5°	3871.1	3652.6	3410.9	3323.5	3227.4	3215.7	3209.9	3145.8	3169.1	3157.5	3099.3
15°	4089.6	3786.7	3530.3	3381.7	3300.3	3247.8	3172.1	3160.4	3145.8	3116.7	3090.5
17.5°	4325.5	3932.3	3585.7	3399.2	3276.9	3239.0	3180.8	3119.6	3076.0	3081.8	3061.3
20°	4526.5	4066.3	3606.0	3416.7	3259.5	3186.6	3096.3	3058.5	3011.9	3008.9	3006.0
22.5°	4765.4	4246.9	3635.2	3370.1	3207.0	3131.3	3070.1	3003.1	2971.1	2930.3	2950.6
25°	5050.8	4316.8	3641.0	3343.9	3169.1	3035.2	3003.1	2930.3	2918.6	2860.4	2872.0
27.5°	5257.6	4354.6	3594.4	3262.3	3081.8	2979.8	2921.5	2869.2	2848.7	2805.1	2793.4
30°	5534.4	4412.9	3495.4	3160.4	2994.4	2880.8	2845.8	2834.2	2775.9	2729.3	2723.5
32.5°	5848.9	4450.7	3431.3	3055.5	2904.1	2816.7	2834.2	2778.8	2706.0	2665.2	2653.6
35°	6099.4	4465.4	3271.1	2936.1	2842.9	2787.6	2767.1	2755.5	2650.7	2612.8	2583.6
37.5°	6481.0	4433.3	3137.1	2851.7	2775.9	2755.5	2738.0	2659.4	2540.0	2484.7	2443.9
40°	6926.6	4424.6	2965.3	2732.2	2711.8	2735.1	2682.7	2560.3	2394.3	2333.2	2304.0
42.5°	7354.9	4485.7	2857.5	2668.2	2641.9	2650.7	2577.8	2394.3	2312.8	2277.8	2231.2
45°	8071.4	4613.9	2679.8	2569.1	2557.5	2551.6	2464.2	2272.0	2225.4	2181.7	2173.0
47.5°	8718.1	4529.5	2566.2	2467.2	2478.8	2446.7	2260.4	2199.1	2146.7	2103.1	2088.5
50°	8755.9	4328.5	2406.0	2388.5	2391.4	2336.0	2158.4	2117.6	2050.6	2021.5	2001.1
52.5°	8557.8	3999.3	2257.4	2263.2	2272.0	2181.7	2033.1	2004.0	1948.7	1907.9	1896.2
55°	8001.5	3486.6	2111.8	2135.1	2158.4	1986.5	1939.9	1867.1	1823.5	1765.2	1768.0
57.5°	7049.0	2807.9	1907.9	1945.7	1995.3	1806.0	1771.0	1680.7	1616.6	1570.0	1564.2
60°	4724.6	1998.2	1602.0	1616.6	1727.3	1651.6	1648.6	1558.4	1471.0	1430.2	1406.9
62.5°	2787.6	1526.3	1383.6	1369.0	1366.1	1409.8	1482.6	1450.6	1337.0	1258.3	1281.6
65°	1459.3	1319.5	1287.5	1238.0	1208.9	1197.2	1252.5	1267.1	1191.4	1106.8	1101.0
67.5°	1226.3	1226.3	1200.1	1182.6	1141.8	1092.3	1057.4	1010.7	999.1	975.8	946.6
70°	1115.6	1144.8	1136.0	1095.2	1060.2	1004.9	914.6	838.9	766.1	739.8	757.3
72.5°	972.9	1002.0	1002.0	981.6	935.0	850.5	763.1	675.7	614.6	568.0	562.2
75°	748.6	763.1	798.1	774.8	713.7	661.2	570.9	480.6	422.4	378.7	370.0
77.5°	477.7	501.0	501.0	498.1	454.4	404.9	346.7	282.6	238.8	206.8	198.1
80°	317.5	332.0	343.7	332.0	302.9	265.1	221.4	177.7	145.7	119.4	113.6
82.5°	233.0	250.5	259.3	247.6	218.5	189.3	157.3	125.2	93.2	72.8	67.0
85°	90.3	93.2	104.9	125.2	122.4	119.4	96.1	69.9	52.4	37.8	35.0
87.5°	23.3	20.4	23.3	23.3	20.4	17.5	17.5	17.5	17.5	8.7	11.7
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)