

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: P651636

Luminaire Tested: **GALN-SA9D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39007.3 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

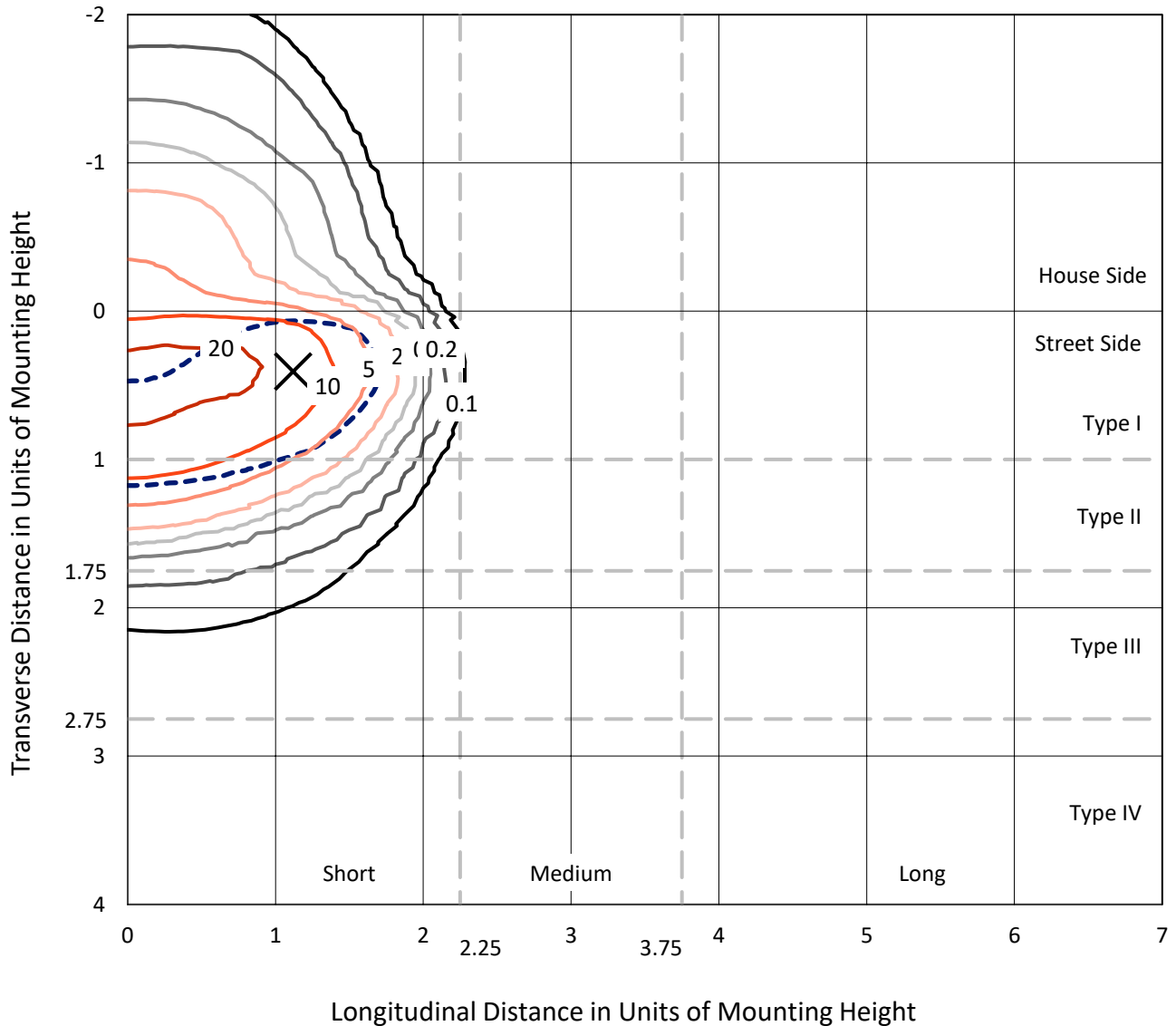
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

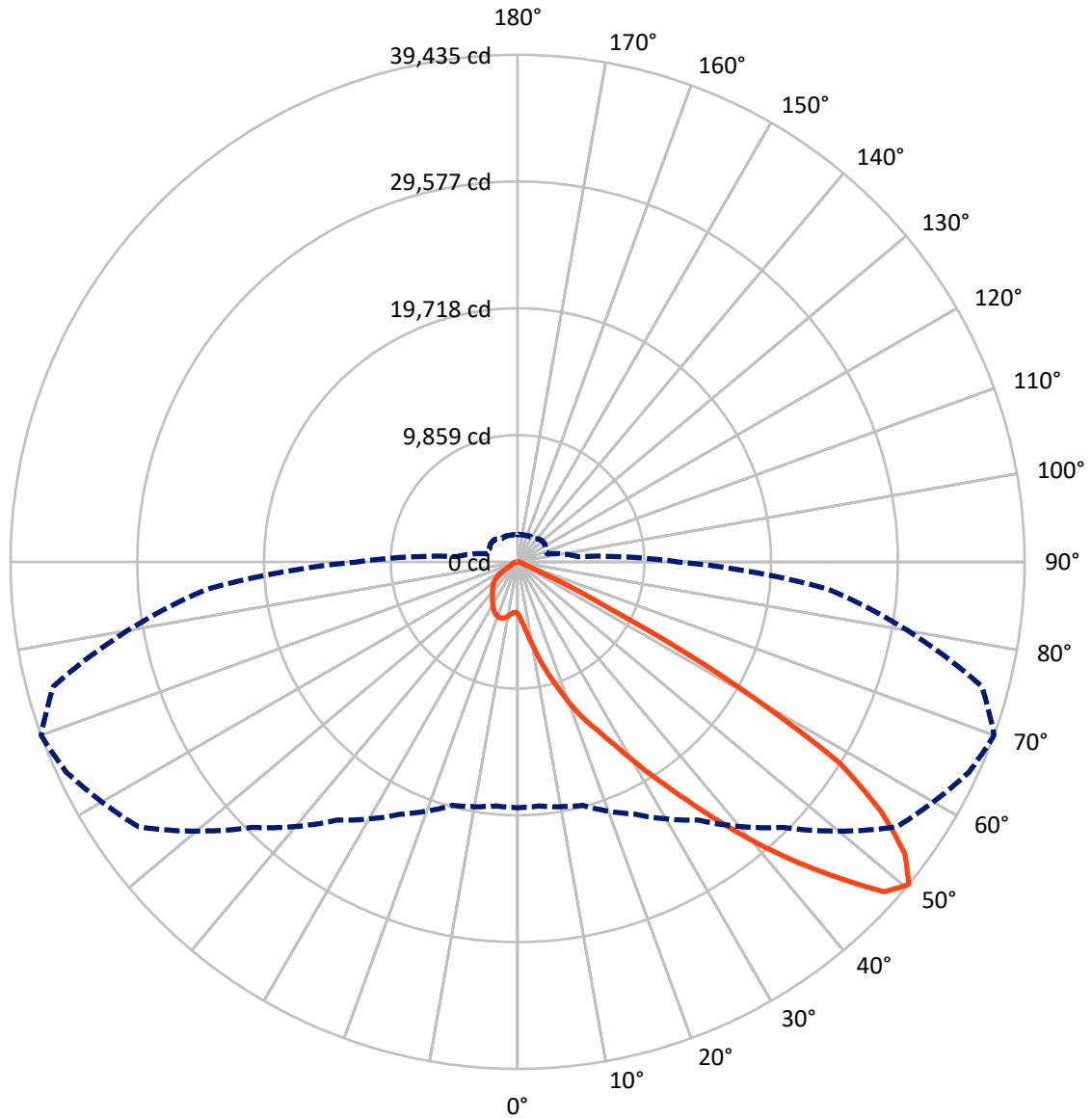
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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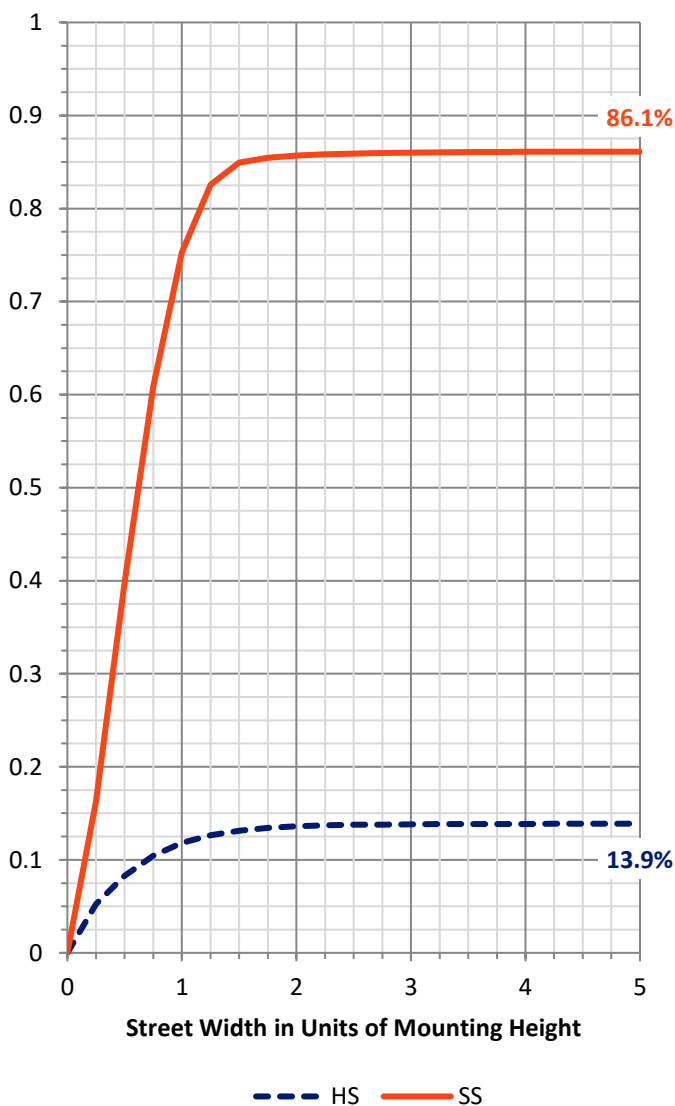
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5447.6	0.0	5447.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33559.7	0.0	33559.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	39007.3	0.0	39007.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.4	1.3
10°-20°	2272.7	5.8
20°-30°	4767.7	12.2
30°-40°	8217.9	21.1
40°-50°	12010.4	30.8
50°-60°	9354.1	24.0
60°-70°	1584.9	4.1
70°-80°	217.7	0.6
80°-90°	56.4	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°	39007.3	100.0
0°-180°	39007.3	100.0

Coefficient of Utilization

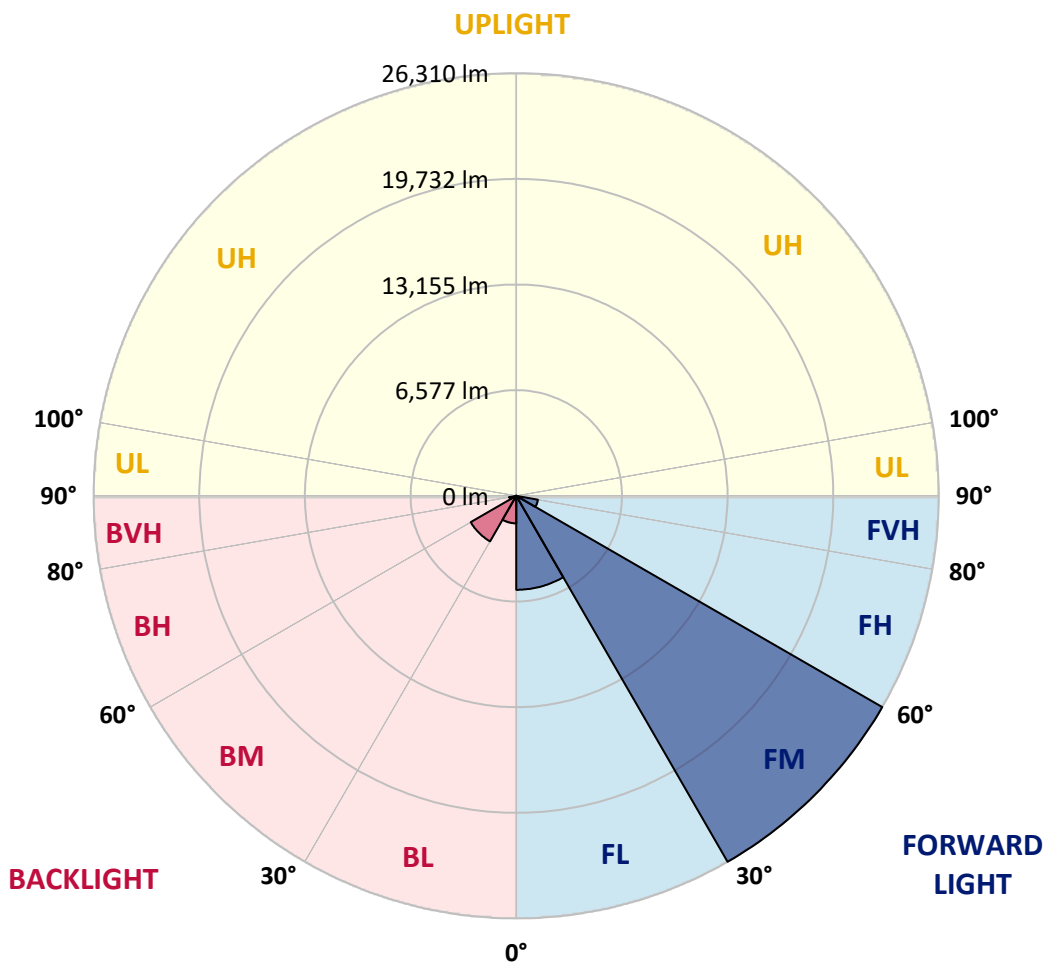


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5851.5	15.0			
FM (30°-60°)	26309.7	67.4			
FH (60°-80°)	1372.3	3.5			G1/1800
FVH (80°-90°)	26.1	0.1			G1/100
BL (0°-30°)	1714.2	4.4	B3/2500		
BM (30°-60°)	3272.7	8.4	B3/5000		
BH (60°-80°)	430.3	1.1	B1/500		G1/500
BVH (80°-90°)	30.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4
2.5°	5291.0	5252.5	5169.1	5015.2	4951.1	4797.1	4707.3	4534.2	4425.2	4303.3	4168.7
5°	7452.3	7253.5	7131.6	6958.4	6451.8	6137.5	5618.0	5175.5	4970.3	4745.8	4438.0
7.5°	9684.1	9555.9	9389.1	9017.1	8670.8	8016.7	7125.2	6150.4	5733.5	5348.7	4739.5
10°	11531.1	11172.0	11152.8	10877.0	10498.6	9716.2	8645.1	7433.0	6689.1	6124.8	5169.1
12.5°	12820.2	12493.1	12640.7	12608.5	12255.8	11537.5	10299.8	8696.4	7920.5	7041.8	5611.7
15°	13993.8	13859.2	13814.3	13775.7	13634.7	13102.4	11992.9	10235.6	9113.3	8055.1	6111.9
17.5°	15141.8	14795.5	14962.2	14994.3	14981.5	14500.5	13461.6	11697.9	10376.8	9126.1	6637.8
20°	16161.5	16193.6	15969.2	15924.3	15885.7	15866.6	14853.2	13147.3	11928.7	10248.4	7324.0
22.5°	17469.8	17245.4	17444.2	17315.9	17065.8	16911.9	16135.8	14430.0	13275.5	11601.7	8023.1
25°	19015.4	19195.1	18726.9	18675.6	18399.8	17867.5	17168.4	15866.6	14571.0	12858.7	8779.8
27.5°	20920.2	20605.9	20484.1	20201.9	19701.7	19477.2	18656.3	17348.0	16135.8	14179.8	9511.0
30°	22555.6	22472.2	21863.0	21529.5	21093.4	21087.0	19939.0	19355.4	18175.4	16251.3	10517.8
32.5°	23889.6	23524.0	23299.6	23068.6	22715.9	22812.1	21843.7	21535.9	20349.4	18175.4	11704.3
35°	24781.0	24518.1	24383.4	24030.6	23928.0	24357.7	23953.7	23825.4	22850.6	20881.7	13096.0
37.5°	25063.2	25146.6	25120.9	24678.4	24896.5	26057.3	26576.8	26243.2	25730.2	23735.6	14603.1
40°	25313.3	25371.0	25242.8	25762.3	26384.4	27705.5	29584.6	29033.1	28840.7	26628.1	16700.2
42.5°	25454.4	25409.6	25409.6	26307.4	27250.2	29905.3	32489.8	32124.3	31976.8	29706.5	19124.5
45°	24845.2	24409.0	24877.2	26095.7	27994.1	30989.1	34811.4	35318.0	35106.5	33368.4	21959.2
47.5°	22568.4	22837.8	23100.8	24729.7	27089.8	30655.6	36235.2	37960.4	38351.6	36446.8	23819.1
50°	19124.5	19066.7	19611.9	21664.2	24530.9	29219.0	35959.4	38723.6	39435.4	37370.3	24210.2
52.5°	13910.5	14333.8	14923.8	16963.2	20362.3	25499.3	32400.0	36754.6	37703.9	36235.2	23953.7
55°	8100.0	7631.8	8959.4	10684.6	13891.2	19233.5	27391.2	32579.6	34336.9	34170.1	22658.2
57.5°	3245.2	3142.5	3597.9	4848.4	7247.1	11922.4	19919.8	26769.1	29584.6	31297.0	19913.3
60°	1423.7	1391.7	1635.4	1975.3	2962.9	5496.2	10896.2	16648.9	19586.2	21869.4	13705.3
62.5°	1026.1	1013.3	1135.2	1257.0	1564.8	2392.1	4579.1	6708.3	8363.0	10101.0	6137.5
65°	827.3	859.4	942.8	1006.9	1154.4	1327.5	1616.1	1866.3	2289.5	2373.0	1353.2
67.5°	673.4	699.0	776.0	846.6	872.2	718.3	743.9	654.1	654.1	583.6	468.2
70°	493.8	500.2	590.0	673.4	538.7	288.6	506.6	506.6	455.3	436.1	397.6
72.5°	365.6	372.0	442.5	416.9	211.7	179.6	372.0	410.5	372.0	352.7	320.7
75°	269.4	275.8	230.9	96.2	89.8	115.5	218.1	282.2	269.4	263.0	243.7
77.5°	51.3	38.5	32.0	44.9	64.2	96.2	141.1	173.2	179.6	192.4	179.6
80°	6.4	6.4	19.3	38.5	70.6	102.6	147.5	166.8	173.2	179.6	166.8
82.5°	0.0	6.4	19.3	38.5	70.6	96.2	128.3	147.5	160.3	166.8	160.3
85°	0.0	6.4	12.9	32.0	57.7	70.6	64.2	44.9	38.5	44.9	32.0
87.5°	0.0	0.0	6.4	6.4	12.9	12.9	12.9	12.9	12.9	12.9	12.9
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°	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4	4040.4
2.5°	4091.7	4066.1	3976.2	3880.0	3796.7	3835.1	3796.7	3764.7	3777.4	3764.7	3751.8
5°	4316.2	4200.7	4008.3	3924.9	3854.4	3848.0	3828.7	3822.3	3828.7	3828.7	3771.0
7.5°	4527.8	4341.8	4136.5	4046.8	3963.5	3969.9	3924.9	3924.9	3918.6	3886.4	3873.6
10°	4848.4	4598.3	4335.4	4175.1	4072.5	4053.2	4008.3	3963.5	3963.5	3963.5	3899.3
12.5°	5201.2	4887.0	4527.8	4341.8	4220.0	4123.8	4053.2	4040.4	3969.9	3957.0	3924.9
15°	5509.1	5111.4	4656.0	4399.5	4245.6	4117.4	4008.3	3937.7	3905.7	3886.4	3860.8
17.5°	5810.5	5303.8	4726.6	4399.5	4232.8	4085.2	3969.9	3905.7	3828.7	3841.6	3790.3
20°	6214.5	5509.1	4745.8	4316.2	4110.9	3969.9	3816.0	3783.8	3738.9	3700.5	3713.3
22.5°	6605.7	5656.6	4688.2	4213.6	3918.6	3751.8	3674.8	3636.3	3617.1	3585.0	3540.1
25°	6958.4	5816.9	4598.3	4027.5	3713.3	3591.5	3520.9	3514.5	3469.6	3469.6	3386.2
27.5°	7317.6	5874.6	4444.4	3809.5	3533.7	3463.2	3431.1	3418.3	3399.1	3354.2	3296.5
30°	7728.0	5893.8	4220.0	3585.0	3373.4	3296.5	3341.3	3373.4	3290.0	3206.6	3232.3
32.5°	8068.0	5848.9	3950.6	3373.4	3257.9	3219.5	3309.3	3341.3	3245.2	3155.3	3110.4
35°	8478.4	5739.9	3687.6	3206.6	3142.5	3219.5	3296.5	3296.5	3104.0	2995.1	2969.4
37.5°	9100.5	5618.0	3444.0	3065.5	3020.7	3181.0	3283.6	3213.0	2911.6	2777.0	2744.9
40°	9767.5	5541.1	3206.6	2924.5	2956.5	3116.8	3174.6	2956.5	2648.7	2565.3	2539.7
42.5°	10735.9	5387.2	2995.1	2802.6	2898.8	3027.1	3027.1	2635.9	2520.4	2475.6	2469.1
45°	11941.6	5278.1	2809.0	2700.0	2815.4	2847.5	2744.9	2469.1	2385.7	2373.0	2379.4
47.5°	12531.6	5066.5	2616.6	2578.2	2661.5	2667.9	2398.6	2334.4	2263.9	2244.6	2231.8
50°	12441.8	4688.2	2366.5	2417.8	2533.3	2469.1	2186.9	2199.8	2135.6	2129.2	2097.1
52.5°	11813.3	4091.7	2116.4	2238.2	2366.5	2180.5	2013.8	2001.0	2001.0	1917.6	1885.5
55°	10473.0	3296.5	1815.0	1968.9	2122.8	1834.2	1789.3	1776.5	1744.4	1667.5	1648.2
57.5°	8292.4	2417.8	1366.0	1532.8	1802.2	1558.5	1552.0	1494.3	1410.9	1353.2	1353.2
60°	4931.8	1391.7	859.4	936.4	1192.9	1263.4	1404.6	1378.8	1237.8	1148.0	1122.3
62.5°	2251.1	718.3	545.1	557.9	641.3	820.9	1103.1	1276.2	1077.4	923.5	910.7
65°	756.7	532.3	448.9	429.7	442.5	493.8	660.6	904.2	859.4	711.9	686.3
67.5°	461.8	474.6	423.3	391.2	391.2	384.8	378.4	410.5	506.6	493.8	500.2
70°	397.6	436.1	391.2	352.7	339.9	320.7	269.4	224.5	192.4	224.5	237.3
72.5°	320.7	346.3	333.5	301.4	269.4	243.7	192.4	147.5	109.0	96.2	96.2
75°	237.3	256.5	269.4	230.9	205.2	173.2	141.1	96.2	57.7	38.5	38.5
77.5°	173.2	192.4	198.8	179.6	153.9	121.9	89.8	64.2	32.0	12.9	12.9
80°	147.5	173.2	192.4	179.6	160.3	115.5	83.3	44.9	25.7	6.4	6.4
82.5°	141.1	173.2	192.4	173.2	153.9	109.0	83.3	51.3	19.3	6.4	6.4
85°	32.0	44.9	57.7	70.6	83.3	83.3	64.2	38.5	19.3	6.4	6.4
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	6.4	6.4	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)