

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: P651526

Luminaire Tested: **GALN-SA7D-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651526
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-SA7D-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29969.9 lumens
Efficiency: N/A
Efficacy: 69.2 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

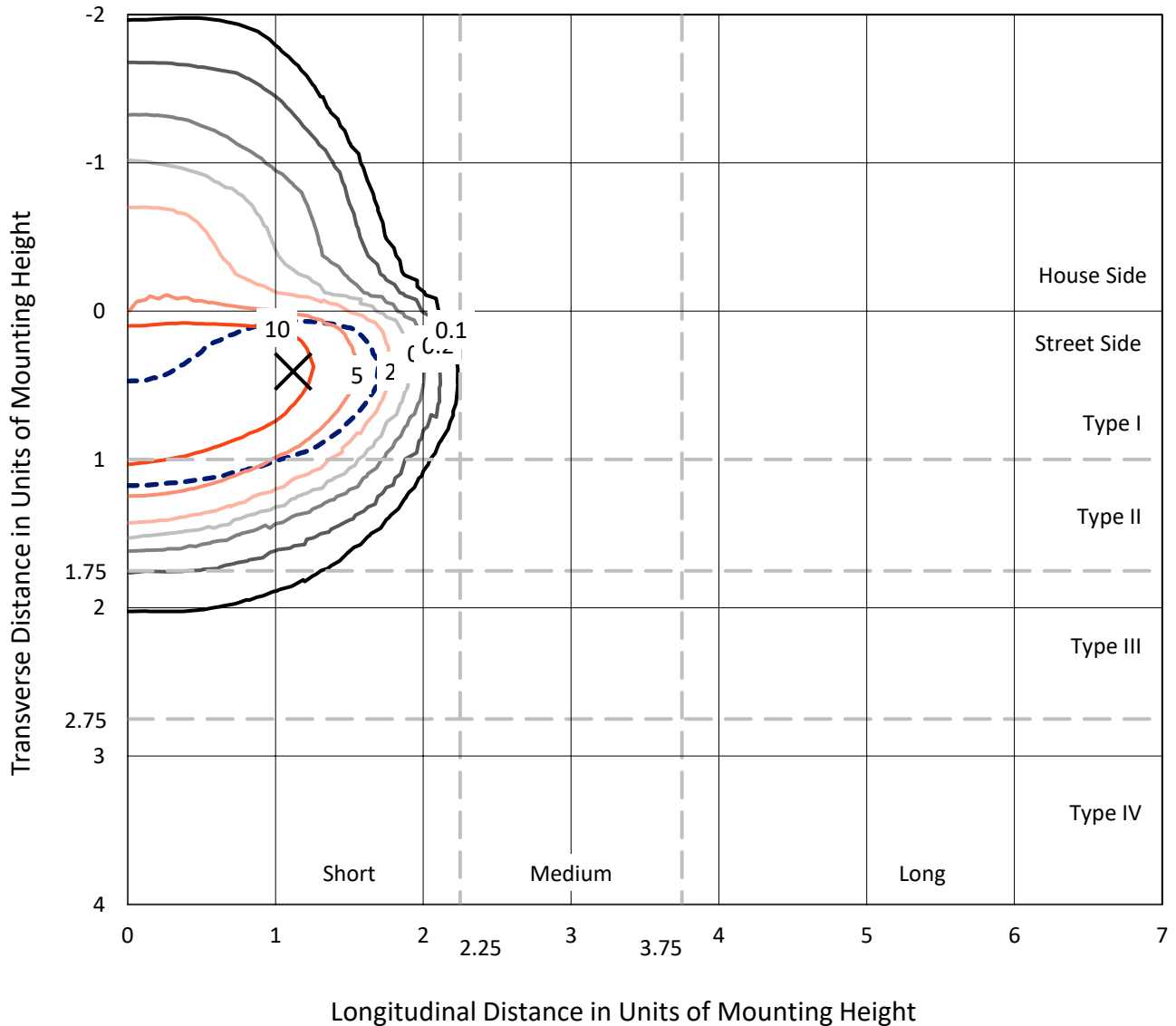
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

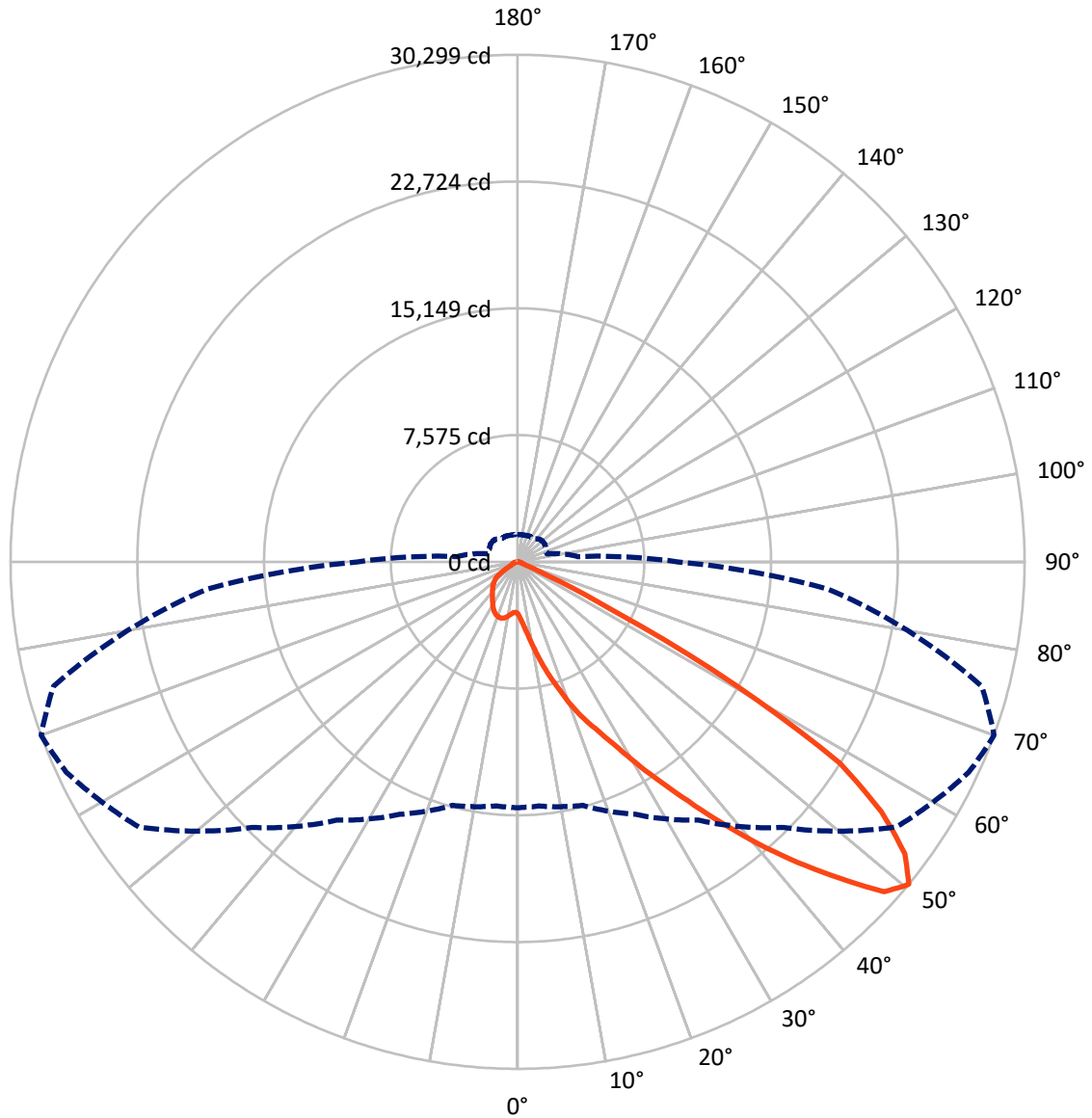
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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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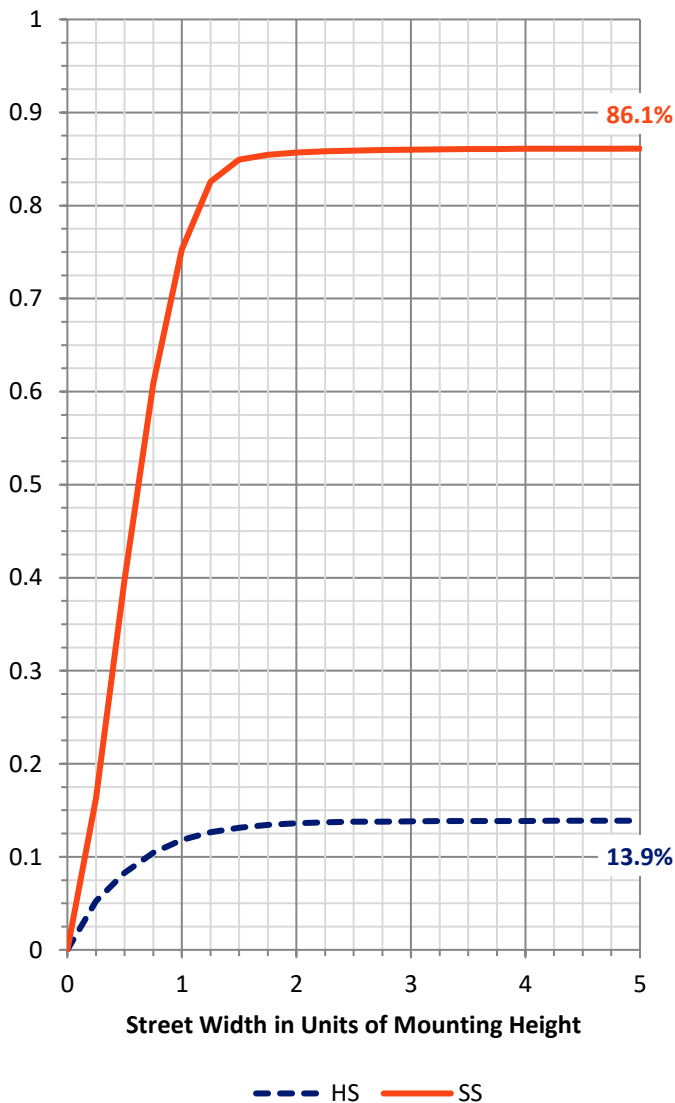
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4185.5	0.0	4185.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	25784.4	0.0	25784.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	29969.9	0.0	29969.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	1.3
10°-20°	1746.1	5.8
20°-30°	3663.1	12.2
30°-40°	6314.0	21.1
40°-50°	9227.8	30.8
50°-60°	7186.9	24.0
60°-70°	1217.7	4.1
70°-80°	167.3	0.6
80°-90°	43.3	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°	29969.9	100.0
0°-180°	29969.9	100.0

Coefficient of Utilization



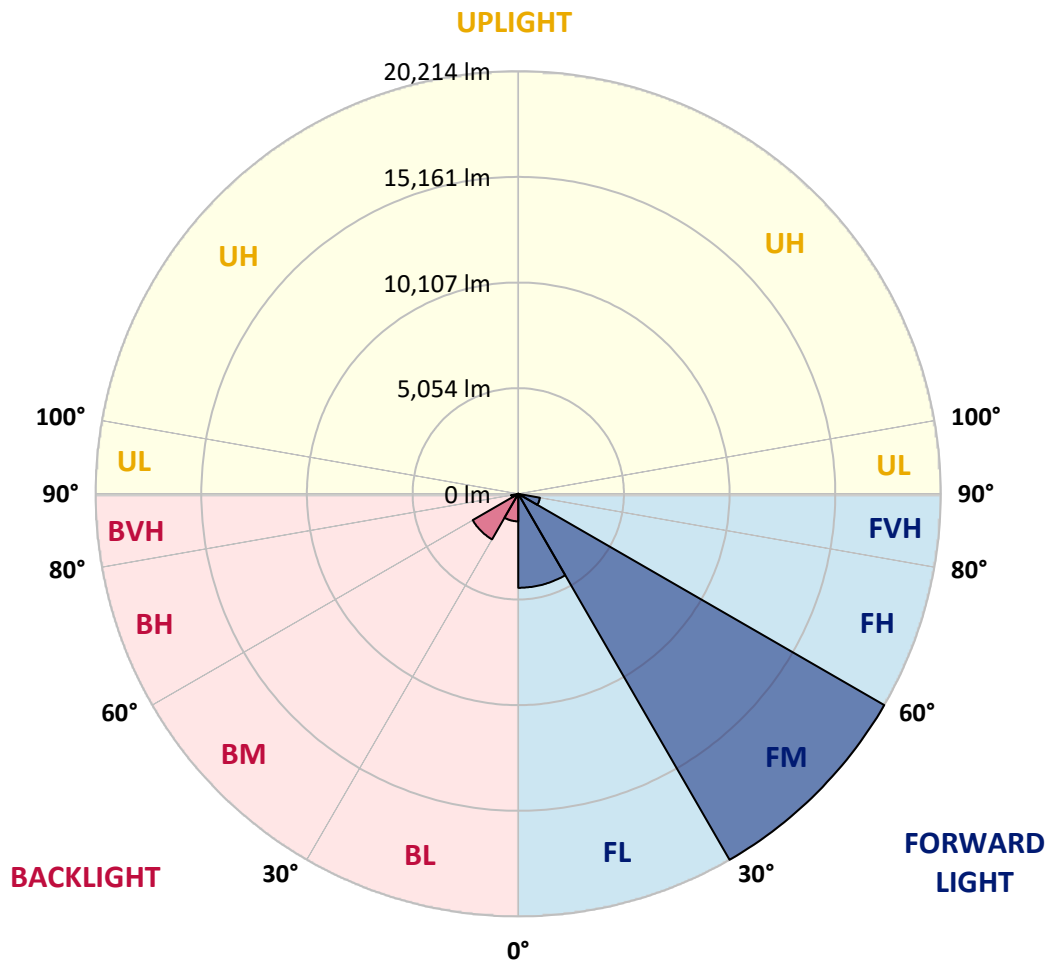
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4495.8	15.0			
FM (30°-60°)	20214.2	67.4			
FH (60°-80°)	1054.3	3.5			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1317.1	4.4	B3/2500		
BM (30°-60°)	2514.5	8.4	B3/5000		
BH (60°-80°)	330.6	1.1	B1/500		G1/500
BVH (80°-90°)	23.3	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°	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3
2.5°	4065.1	4035.5	3971.5	3853.3	3804.0	3685.8	3616.7	3483.7	3399.9	3306.3	3202.9
5°	5725.7	5573.0	5479.3	5346.2	4957.0	4715.6	4316.4	3976.4	3818.7	3646.3	3409.8
7.5°	7440.4	7341.9	7213.8	6928.0	6661.9	6159.3	5474.4	4725.4	4405.2	4109.5	3641.4
10°	8859.5	8583.6	8568.9	8356.9	8066.2	7465.1	6642.2	5710.9	5139.4	4705.7	3971.5
12.5°	9850.0	9598.7	9712.0	9687.3	9416.3	8864.5	7913.5	6681.6	6085.4	5410.3	4311.5
15°	10751.7	10648.2	10613.7	10584.2	10475.7	10066.8	9214.3	7864.2	7001.9	6188.8	4695.9
17.5°	11633.7	11367.6	11495.7	11520.4	11510.5	11141.0	10342.7	8987.7	7972.6	7011.8	5099.9
20°	12417.2	12441.8	12269.3	12234.9	12205.3	12190.5	11411.9	10101.3	9165.0	7874.0	5627.1
22.5°	13422.4	13249.9	13402.7	13304.1	13111.9	12993.7	12397.4	11086.7	10199.8	8913.8	6164.2
25°	14609.9	14747.9	14388.2	14348.7	14136.9	13727.9	13190.7	12190.5	11195.1	9879.6	6745.7
27.5°	16073.4	15831.9	15738.2	15521.4	15137.1	14964.7	14333.9	13328.8	12397.4	10894.6	7307.4
30°	17329.8	17265.7	16797.6	16541.5	16206.3	16201.4	15319.4	14871.0	13964.4	12486.2	8081.0
32.5°	18354.7	18073.8	17901.4	17724.0	17453.0	17526.9	16782.9	16546.3	15634.8	13964.4	8992.6
35°	19039.7	18837.6	18734.1	18463.1	18384.3	18714.4	18404.0	18305.5	17556.5	16043.8	10061.8
37.5°	19256.5	19320.5	19300.8	18960.8	19128.3	20020.2	20419.3	20163.1	19768.9	18236.5	11219.8
40°	19448.6	19493.0	19394.4	19793.5	20271.5	21286.6	22730.3	22306.5	22158.8	20458.8	12831.1
42.5°	19557.0	19522.6	19522.6	20212.3	20936.7	22976.6	24962.4	24681.6	24568.2	22823.9	14693.6
45°	19088.9	18753.9	19113.6	20049.8	21508.3	23809.4	26746.2	27135.5	26972.8	25637.5	16871.6
47.5°	17339.7	17546.6	17748.6	19000.2	20813.5	23553.2	27840.0	29165.5	29466.1	28002.7	18300.5
50°	14693.6	14649.3	15068.1	16644.9	18847.5	22449.4	27628.2	29751.9	30298.9	28712.2	18601.1
52.5°	10687.6	11012.8	11466.2	13033.1	15644.6	19591.5	24893.4	28239.2	28968.4	27840.0	18404.0
55°	6223.4	5863.6	6883.7	8209.1	10672.9	14777.4	21045.1	25031.4	26381.5	26253.4	17408.6
57.5°	2493.3	2414.4	2764.3	3725.1	5568.0	9160.1	15304.6	20567.2	22730.3	24046.0	15299.7
60°	1093.9	1069.2	1256.5	1517.7	2276.5	4222.8	8371.7	12791.6	15048.4	16802.6	10529.9
62.5°	788.4	778.5	872.1	965.8	1202.3	1837.9	3518.2	5154.1	6425.4	7760.7	4715.6
65°	635.6	660.3	724.4	773.6	886.9	1020.0	1241.7	1433.9	1759.1	1823.1	1039.7
67.5°	517.4	537.1	596.2	650.4	670.1	551.9	571.5	502.6	502.6	448.4	359.7
70°	379.4	384.3	453.3	517.4	413.9	221.8	389.3	389.3	349.9	335.1	305.5
72.5°	280.9	285.8	340.0	320.3	162.6	138.0	285.8	315.4	285.8	271.0	246.4
75°	207.0	211.8	177.4	73.9	69.0	88.7	167.5	216.8	207.0	202.0	187.2
77.5°	39.4	29.6	24.6	34.5	49.3	73.9	108.4	133.0	138.0	147.8	138.0
80°	5.0	5.0	14.8	29.6	54.2	78.8	113.4	128.1	133.0	138.0	128.1
82.5°	0.0	5.0	14.8	29.6	54.2	73.9	98.6	113.4	123.2	128.1	123.2
85°	0.0	5.0	9.8	24.6	44.3	54.2	49.3	34.5	29.6	34.5	24.6
87.5°	0.0	0.0	5.0	5.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8
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°	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3	3104.3
2.5°	3143.7	3124.0	3055.0	2981.1	2917.0	2946.6	2917.0	2892.4	2902.3	2892.4	2882.5
5°	3316.1	3227.5	3079.7	3015.6	2961.4	2956.5	2941.6	2936.8	2941.6	2941.6	2897.3
7.5°	3478.8	3335.9	3178.2	3109.2	3045.2	3050.1	3015.6	3015.6	3010.7	2986.1	2976.2
10°	3725.1	3533.0	3330.9	3207.7	3128.9	3114.1	3079.7	3045.2	3045.2	3045.2	2995.9
12.5°	3996.2	3754.7	3478.8	3335.9	3242.2	3168.4	3114.1	3104.3	3050.1	3040.2	3015.6
15°	4232.7	3927.1	3577.4	3380.2	3262.0	3163.4	3079.7	3025.4	3000.8	2986.1	2966.3
17.5°	4464.3	4075.0	3631.5	3380.2	3252.1	3138.8	3050.1	3000.8	2941.6	2951.6	2912.1
20°	4774.7	4232.7	3646.3	3316.1	3158.5	3050.1	2931.8	2907.2	2872.7	2843.2	2853.0
22.5°	5075.3	4346.0	3601.9	3237.3	3010.7	2882.5	2823.4	2793.9	2779.1	2754.4	2720.0
25°	5346.2	4469.2	3533.0	3094.5	2853.0	2759.4	2705.2	2700.2	2665.7	2665.7	2601.7
27.5°	5622.3	4513.6	3414.7	2926.9	2715.0	2660.8	2636.2	2626.4	2611.6	2577.1	2532.7
30°	5937.5	4528.3	3242.2	2754.4	2591.8	2532.7	2567.2	2591.8	2527.8	2463.7	2483.5
32.5°	6198.8	4493.8	3035.3	2591.8	2503.2	2473.5	2542.6	2567.2	2493.3	2424.3	2389.8
35°	6514.0	4410.0	2833.2	2463.7	2414.4	2473.5	2532.7	2532.7	2384.9	2301.1	2281.4
37.5°	6992.1	4316.4	2646.0	2355.3	2320.8	2444.0	2522.8	2468.7	2237.1	2133.6	2109.0
40°	7504.5	4257.3	2463.7	2246.9	2271.5	2394.7	2439.1	2271.5	2035.1	1971.0	1951.3
42.5°	8248.5	4139.1	2301.1	2153.3	2227.2	2325.8	2325.8	2025.2	1936.5	1902.0	1897.0
45°	9174.9	4055.3	2158.3	2074.5	2163.1	2187.8	2109.0	1897.0	1833.0	1823.1	1828.1
47.5°	9628.2	3892.7	2010.4	1980.8	2044.9	2049.9	1842.9	1793.6	1739.4	1724.6	1714.7
50°	9559.2	3601.9	1818.2	1857.7	1946.3	1897.0	1680.2	1690.1	1640.9	1635.9	1611.3
52.5°	9076.3	3143.7	1626.1	1719.7	1818.2	1675.4	1547.2	1537.3	1537.3	1473.3	1448.7
55°	8046.5	2532.7	1394.5	1512.7	1631.0	1409.3	1374.8	1364.9	1340.3	1281.1	1266.4
57.5°	6371.2	1857.7	1049.6	1177.7	1384.6	1197.3	1192.5	1148.1	1084.0	1039.7	1039.7
60°	3789.2	1069.2	660.3	719.4	916.5	970.7	1079.1	1059.4	951.0	882.0	862.3
62.5°	1729.5	551.9	418.8	428.7	492.7	630.8	847.6	980.5	827.8	709.6	699.7
65°	581.5	409.0	344.9	330.2	340.0	379.4	507.5	694.8	660.3	547.0	527.2
67.5°	354.8	364.7	325.2	300.6	300.6	295.6	290.7	315.4	389.3	379.4	384.3
70°	305.5	335.1	300.6	271.0	261.1	246.4	207.0	172.5	147.8	172.5	182.3
72.5°	246.4	266.1	256.3	231.6	207.0	187.2	147.8	113.4	83.8	73.9	73.9
75°	182.3	197.1	207.0	177.4	157.7	133.0	108.4	73.9	44.3	29.6	29.6
77.5°	133.0	147.8	152.7	138.0	118.2	93.6	69.0	49.3	24.6	9.8	9.8
80°	113.4	133.0	147.8	138.0	123.2	88.7	64.1	34.5	19.7	5.0	5.0
82.5°	108.4	133.0	147.8	133.0	118.2	83.8	64.1	39.4	14.8	5.0	5.0
85°	24.6	34.5	44.3	54.2	64.1	64.1	49.3	29.6	14.8	5.0	5.0
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	5.0	5.0	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)