

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: P533569

Luminaire Tested: **GALN-SA9A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533569
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-SA9A-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 22272 lumens
Efficiency: N/A
Efficacy: 81.3 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

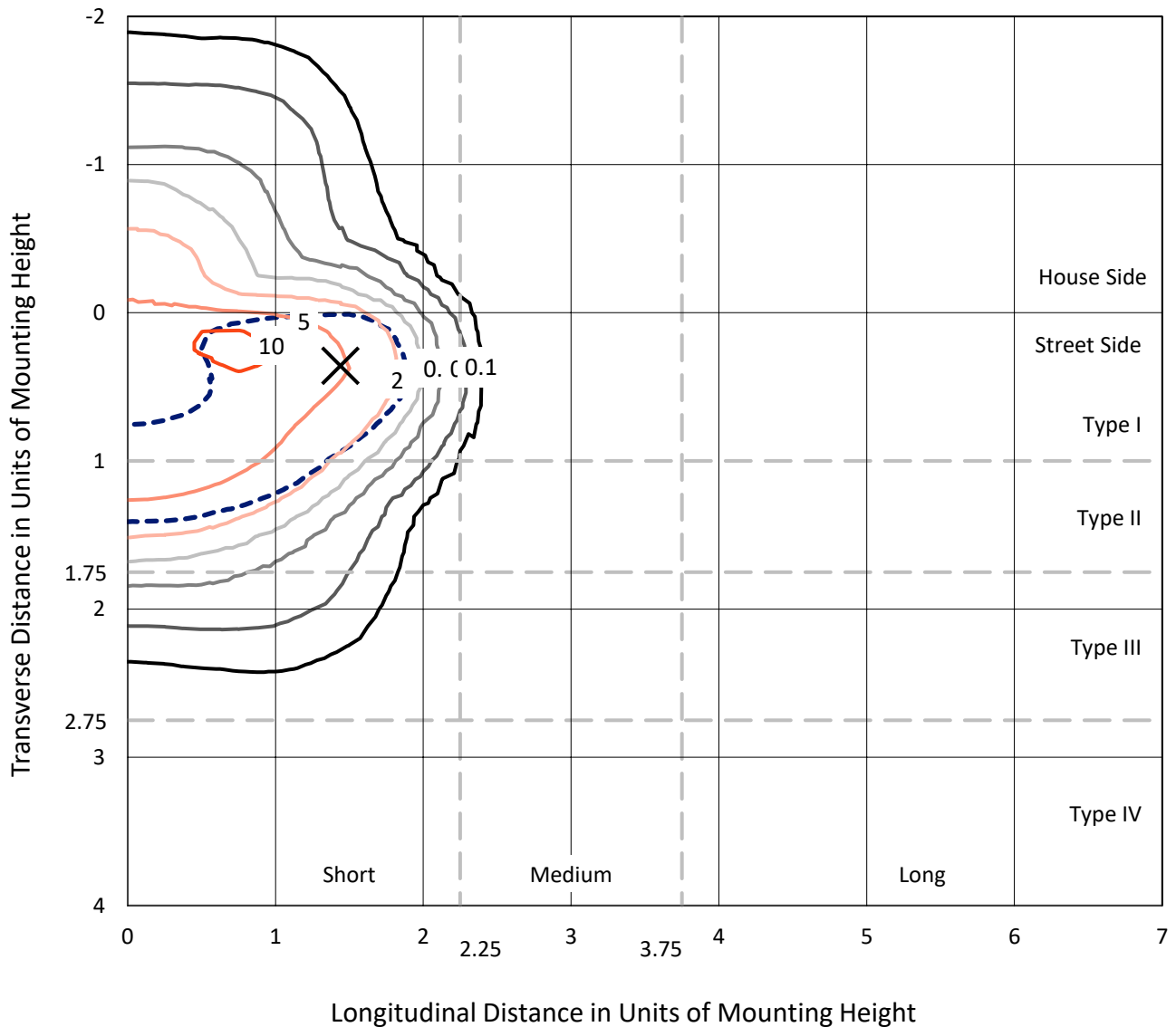
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

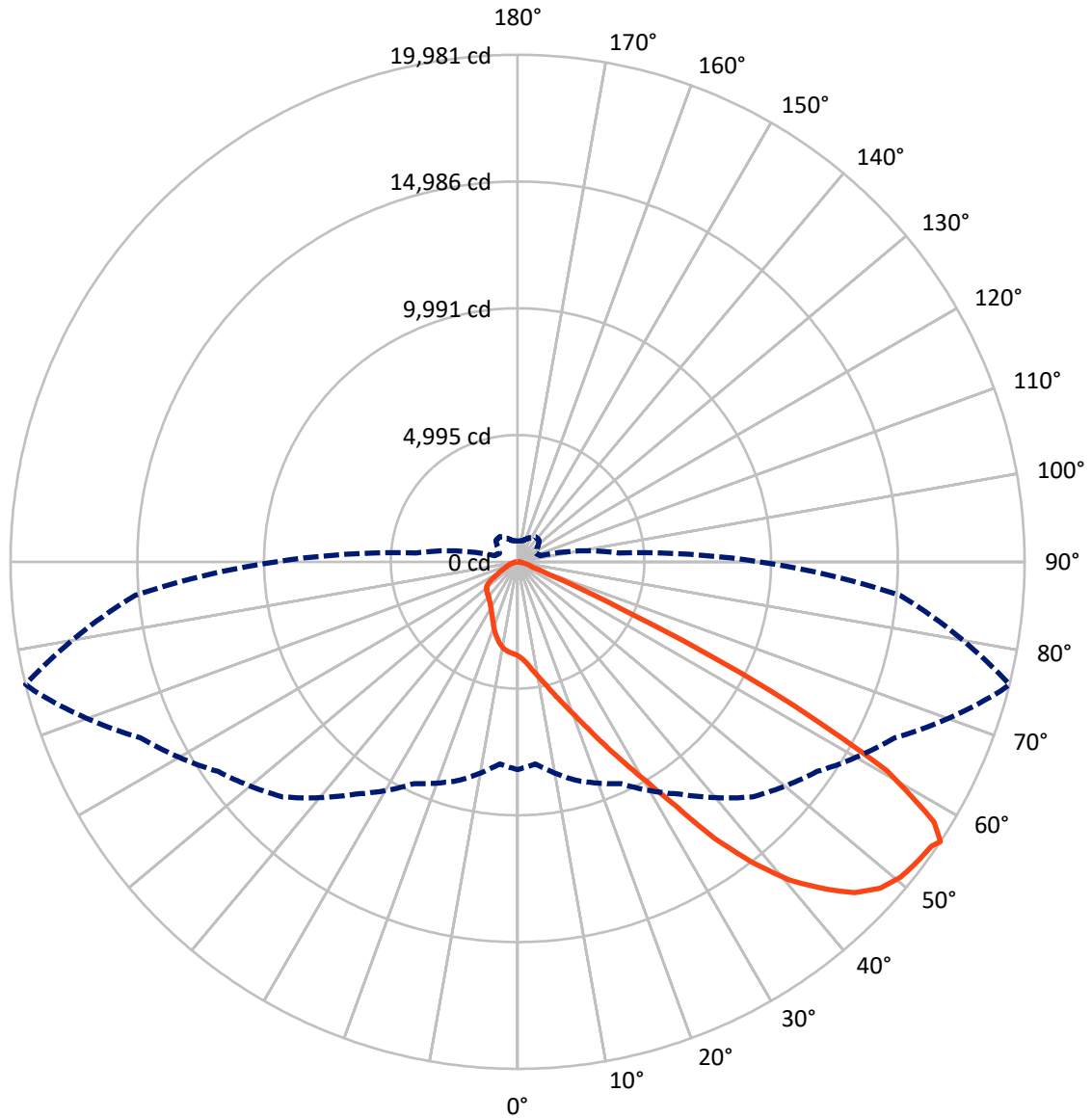
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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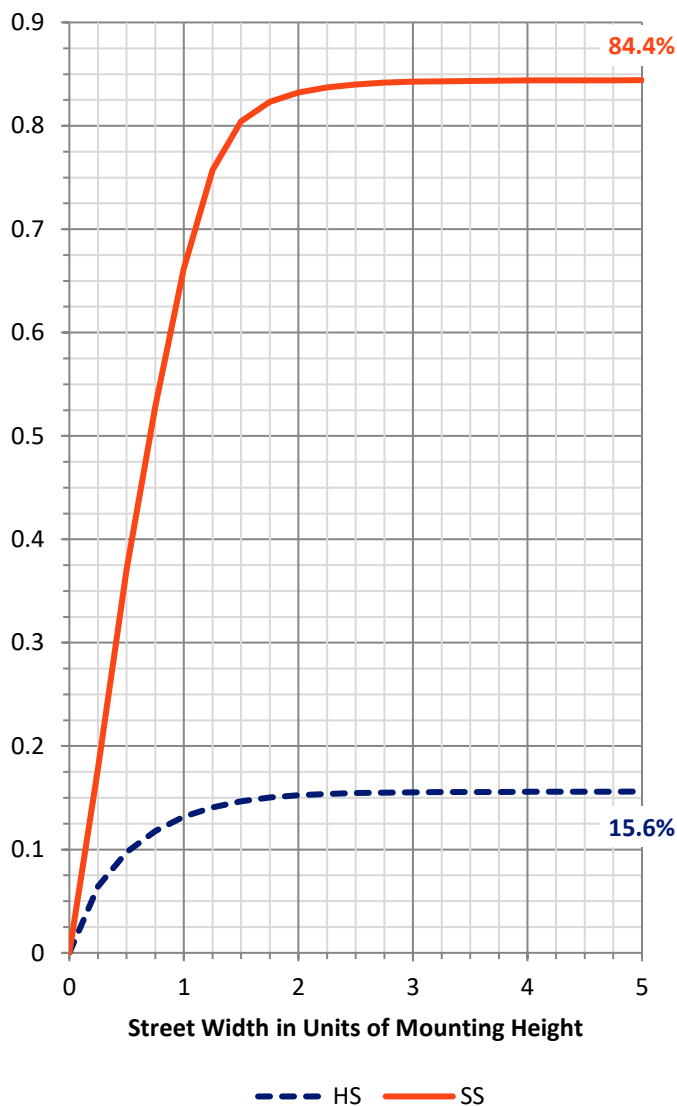
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3498.8	0.0	3498.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	18773.2	0.0	18773.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	22272.0	0.0	22272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.5	1.7
10°-20°	1199.8	5.4
20°-30°	2175.5	9.8
30°-40°	3751.7	16.8
40°-50°	6094.8	27.4
50°-60°	6424.1	28.8
60°-70°	1962.8	8.8
70°-80°	251.6	1.1
80°-90°	38.2	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°	22272.0	100.0
0°-180°	22272.0	100.0

Coefficient of Utilization



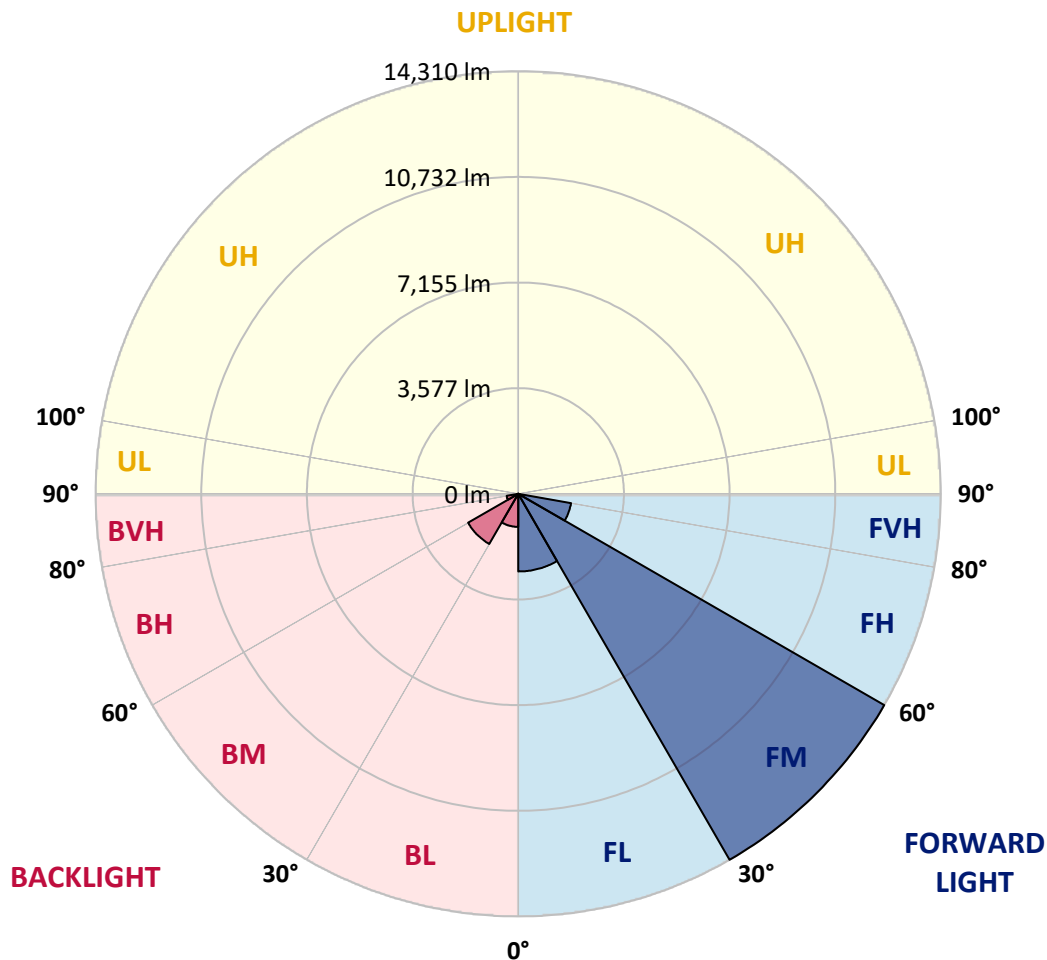
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2629.4	11.8			
FM (30°-60°)	14309.7	64.2			
FH (60°-80°)	1815.3	8.2			G2/5000
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1119.3	5.0	B3/2500		
BM (30°-60°)	1960.9	8.8	B2/2500		
BH (60°-80°)	399.2	1.8	B1/500		G1/500
BVH (80°-90°)	19.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2
2.5°	4269.7	4171.1	4175.2	4167.0	4154.7	4109.5	3974.1	3953.5	3863.2	3838.6	3756.5
5°	4782.8	4696.6	4745.9	4672.0	4602.2	4561.1	4339.4	4236.8	4093.1	4039.7	3924.8
7.5°	5103.1	5062.0	5045.6	5049.7	4984.0	4881.4	4782.8	4557.0	4364.1	4323.0	4080.8
10°	5259.1	5234.4	5259.1	5246.7	5275.5	5287.8	5115.4	4979.9	4696.6	4626.8	4249.1
12.5°	5296.0	5345.3	5365.8	5419.2	5489.0	5608.0	5595.7	5411.0	5033.3	4988.1	4507.8
15°	5386.3	5427.4	5406.9	5493.1	5624.4	5825.6	5932.4	5903.6	5497.2	5415.1	4807.5
17.5°	5468.4	5394.5	5464.3	5636.8	5768.1	6076.0	6334.7	6453.7	6002.1	5907.7	5082.5
20°	5579.3	5558.8	5546.4	5632.7	5866.7	6277.2	6790.4	7008.0	6568.7	6470.2	5476.7
22.5°	5915.9	5920.0	5911.8	5784.6	5952.9	6416.8	7188.6	7726.4	7246.1	7164.0	5924.1
25°	6359.3	6305.9	6264.9	6162.3	6141.7	6544.1	7590.9	8605.0	8059.0	8001.5	6408.6
27.5°	6827.3	6827.3	6704.2	6609.8	6478.4	6860.2	7960.4	9458.9	9040.2	8962.2	6831.4
30°	7336.4	7365.2	7348.7	7147.6	7065.5	7205.0	8338.1	10551.0	10165.1	10066.5	7529.4
32.5°	8087.7	8026.1	8095.9	7927.6	7685.4	7808.5	8933.4	11528.1	11626.6	11487.0	8444.9
35°	9081.2	9044.3	8999.1	8724.0	8436.7	8535.2	9775.0	12731.0	13461.7	13391.9	9368.6
37.5°	9972.1	9951.6	9914.6	9725.8	9393.2	9512.3	10731.6	13983.1	15251.7	15021.8	10674.1
40°	10908.1	11019.0	10899.9	10731.6	10427.8	10690.6	11856.5	14726.2	16758.4	16479.2	11671.8
42.5°	12176.7	12090.5	12143.9	11836.0	11671.8	11959.1	12985.5	15469.3	17928.4	17595.9	12731.0
45°	13527.4	13531.5	13387.8	13289.3	12862.3	13174.3	13679.3	15879.8	18860.4	18601.7	13531.5
47.5°	14393.7	14389.5	14545.6	14701.6	14262.3	13954.4	14151.4	16269.8	19340.7	19221.6	13823.0
50°	14258.2	14299.2	14500.4	15083.4	15313.3	14898.6	14594.8	16154.9	19558.3	19546.0	14073.4
52.5°	12402.5	12538.0	12874.6	13716.3	14874.0	15387.2	15058.7	16368.4	19665.0	19685.6	14447.0
55°	9442.5	9516.4	10156.8	11179.1	12460.0	14217.1	14874.0	16536.7	19747.1	19784.1	14898.6
56°	8190.3	7993.3	8917.0	9643.7	11175.0	13096.3	14406.0	16405.3	19697.9	19981.2	15124.4
57.5°	6182.8	6051.4	6798.6	7705.9	9179.8	11207.8	12952.6	15785.4	19365.3	19361.2	14800.1
60°	3760.6	3629.2	4204.0	4737.7	5562.9	6901.2	8752.8	12570.8	16372.5	16717.3	11983.8
62.5°	2237.5	2319.6	2886.1	3210.5	3477.3	3616.9	4528.3	7471.9	10924.6	11170.9	7434.9
65°	1490.3	1519.0	1946.0	2479.7	2598.7	2069.1	1843.3	3025.7	4737.7	4585.8	3066.8
67.5°	919.6	985.3	1305.5	1863.9	2065.0	1510.8	874.5	1129.0	1305.5	1305.5	886.8
70°	558.3	591.2	870.4	1268.6	1416.4	973.0	636.3	636.3	628.1	615.8	529.6
72.5°	266.9	287.4	443.4	652.8	665.1	513.2	492.7	537.8	525.5	521.4	439.3
75°	115.0	123.2	156.0	205.3	234.0	217.6	299.7	385.9	398.2	385.9	316.1
77.5°	36.9	41.1	57.5	73.9	78.0	94.4	127.3	160.1	184.7	172.4	156.0
80°	4.1	8.2	16.4	36.9	57.5	73.9	94.4	106.7	119.1	119.1	110.8
82.5°	4.1	4.1	16.4	32.8	53.4	69.8	90.3	102.6	119.1	123.2	115.0
85°	0.0	4.1	12.3	28.7	45.2	45.2	41.1	41.1	28.7	28.7	28.7
87.5°	0.0	0.0	4.1	4.1	4.1	8.2	8.2	8.2	8.2	8.2	8.2
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°	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2	3707.2
2.5°	3740.1	3731.8	3621.0	3551.2	3514.3	3440.4	3395.2	3362.4	3337.7	3309.0	3313.1
5°	3789.3	3760.6	3575.8	3448.6	3296.7	3214.6	3144.8	3087.3	3050.3	3042.1	3025.7
7.5°	3928.9	3777.0	3497.8	3267.9	3075.0	2992.9	2931.3	2894.3	2910.8	2873.8	2902.5
10°	4035.6	3809.8	3403.4	3070.9	2877.9	2816.3	2783.5	2812.2	2853.3	2836.9	2816.3
12.5°	4167.0	3842.7	3251.5	2882.0	2701.4	2656.2	2713.7	2767.1	2849.2	2882.0	2841.0
15°	4314.8	3879.6	3058.5	2664.4	2549.5	2586.4	2685.0	2779.4	2861.5	2902.5	2927.2
17.5°	4495.5	3867.3	2869.7	2492.0	2405.8	2512.5	2631.6	2717.8	2841.0	2902.5	2886.1
20°	4663.8	3826.3	2660.3	2319.6	2323.7	2422.2	2520.7	2660.3	2726.0	2808.1	2779.4
22.5°	4823.9	3752.4	2442.7	2200.5	2200.5	2352.4	2401.7	2492.0	2549.5	2590.5	2586.4
25°	5049.7	3612.8	2262.1	2085.6	2134.8	2233.4	2274.4	2303.1	2278.5	2311.4	2315.5
27.5°	5209.8	3469.1	2114.3	1982.9	2073.2	2147.1	2134.8	2118.4	2060.9	2015.8	2044.5
30°	5382.2	3300.8	1987.0	1913.1	1962.4	2028.1	1978.8	1929.6	1839.2	1765.3	1769.4
32.5°	5628.6	3222.8	1876.2	1831.0	1896.7	1904.9	1851.6	1777.7	1687.3	1617.5	1613.4
35°	6088.4	3173.5	1781.8	1777.7	1790.0	1794.1	1740.7	1650.4	1613.4	1556.0	1576.5
37.5°	6548.2	3148.9	1716.1	1699.7	1695.5	1699.7	1638.1	1551.9	1621.6	1617.5	1625.8
40°	7135.2	3259.7	1621.6	1601.1	1605.2	1605.2	1527.2	1502.6	1625.8	1638.1	1642.2
42.5°	7730.5	3399.3	1560.1	1494.4	1510.8	1510.8	1469.7	1441.0	1527.2	1445.1	1432.8
45°	8247.8	3604.6	1494.4	1387.6	1428.7	1449.2	1436.9	1387.6	1334.3	1194.7	1194.7
47.5°	8416.1	3785.2	1416.4	1285.0	1317.8	1408.2	1371.2	1268.6	1174.2	1059.2	1051.0
50°	8711.7	3982.3	1354.8	1165.9	1235.7	1346.6	1309.6	1207.0	1100.3	1018.1	1022.3
52.5°	9015.5	4208.1	1239.8	1026.4	1112.6	1297.3	1297.3	1182.4	1018.1	960.7	952.5
55°	9471.2	4199.9	1034.6	841.6	993.5	1223.4	1243.9	1059.2	911.4	866.2	866.2
56°	9536.9	4011.0	931.9	788.2	940.1	1202.9	1207.0	1026.4	870.4	821.1	821.1
57.5°	9044.3	3621.0	817.0	722.6	874.5	1165.9	1170.0	997.6	837.5	767.7	759.5
60°	6958.7	2450.9	681.5	644.6	792.3	1051.0	1071.5	907.3	734.9	681.5	677.4
62.5°	3928.9	1358.9	599.4	583.0	681.5	895.0	956.6	792.3	624.0	595.3	603.5
65°	1794.1	747.2	505.0	472.1	550.1	689.7	771.8	652.8	513.2	480.3	480.3
67.5°	656.9	509.1	431.1	373.6	385.9	447.5	500.9	422.9	340.8	291.5	303.8
70°	468.0	427.0	377.7	324.3	299.7	291.5	287.4	238.1	168.3	131.4	139.6
72.5°	377.7	353.1	316.1	275.1	234.0	197.1	168.3	123.2	78.0	53.4	49.3
75°	271.0	258.6	229.9	197.1	164.2	139.6	115.0	78.0	41.1	20.5	20.5
77.5°	139.6	139.6	135.5	123.2	102.6	82.1	65.7	45.2	24.6	8.2	8.2
80°	106.7	115.0	119.1	106.7	94.4	73.9	53.4	32.8	16.4	4.1	4.1
82.5°	102.6	119.1	127.3	110.8	94.4	69.8	53.4	32.8	16.4	4.1	4.1
85°	24.6	24.6	36.9	41.1	53.4	57.5	45.2	28.7	12.3	4.1	4.1
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	4.1	4.1	4.1	4.1	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)