

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: P529832

Luminaire Tested: **GALN-SA5A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18207 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

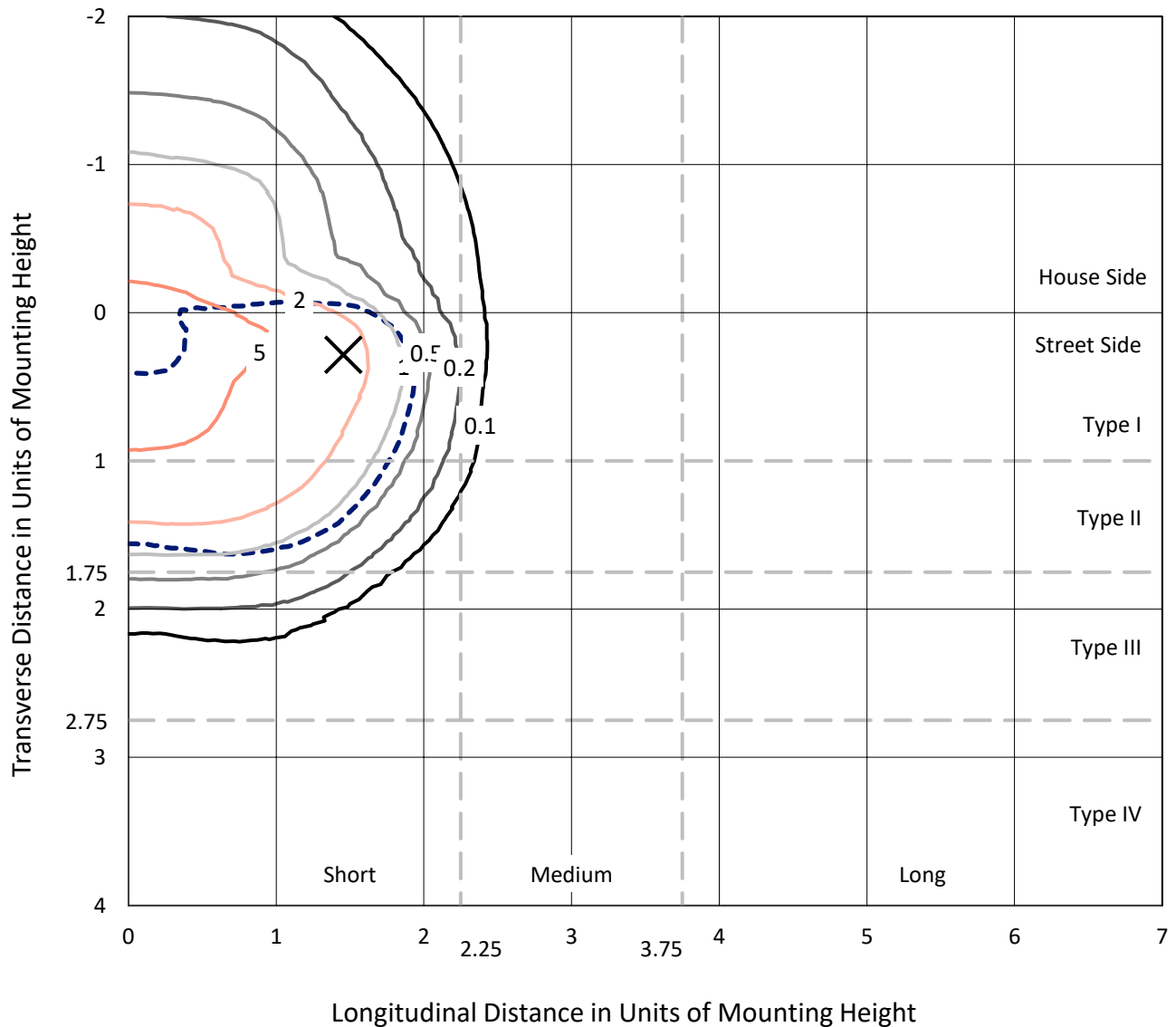
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

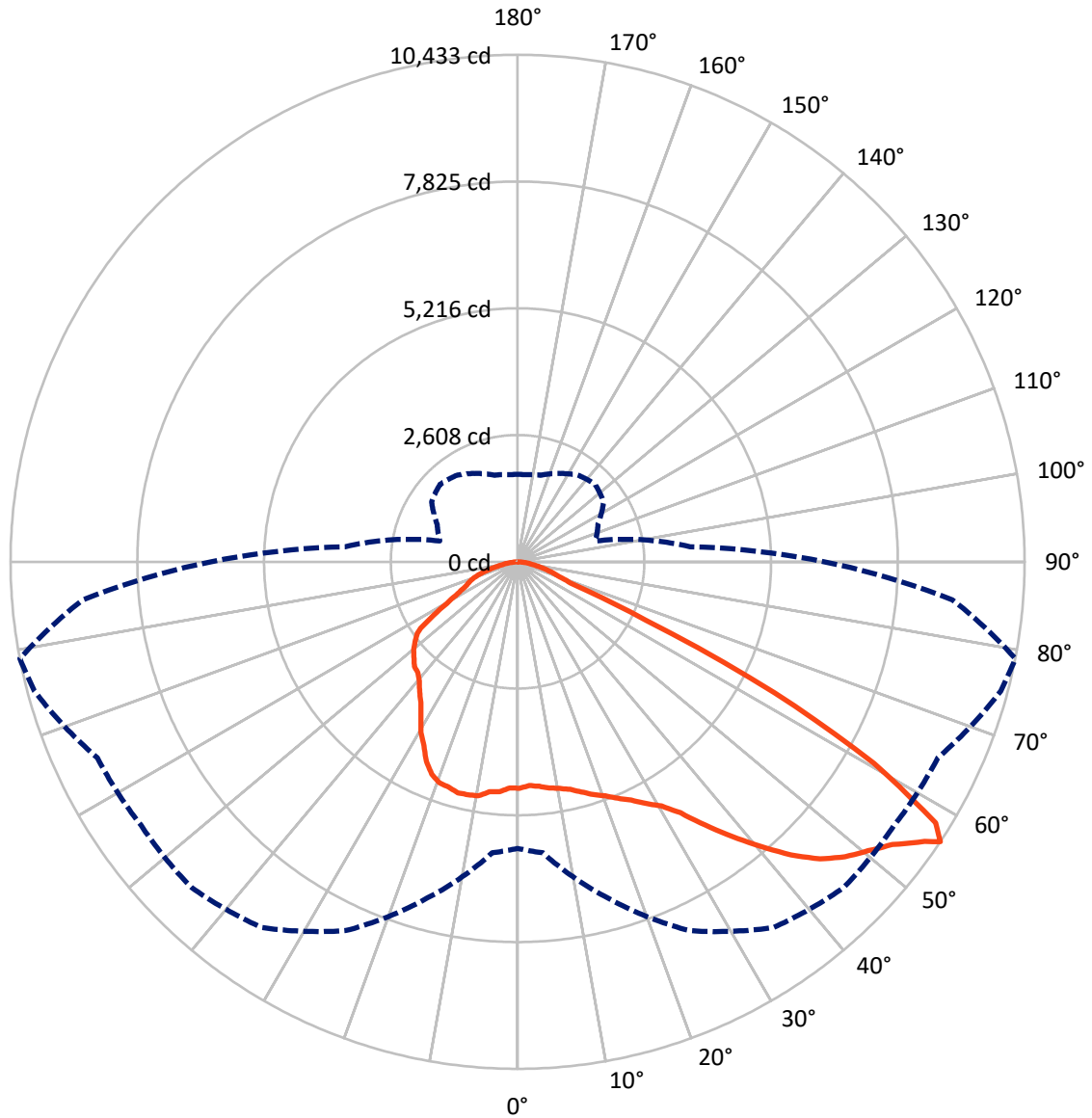
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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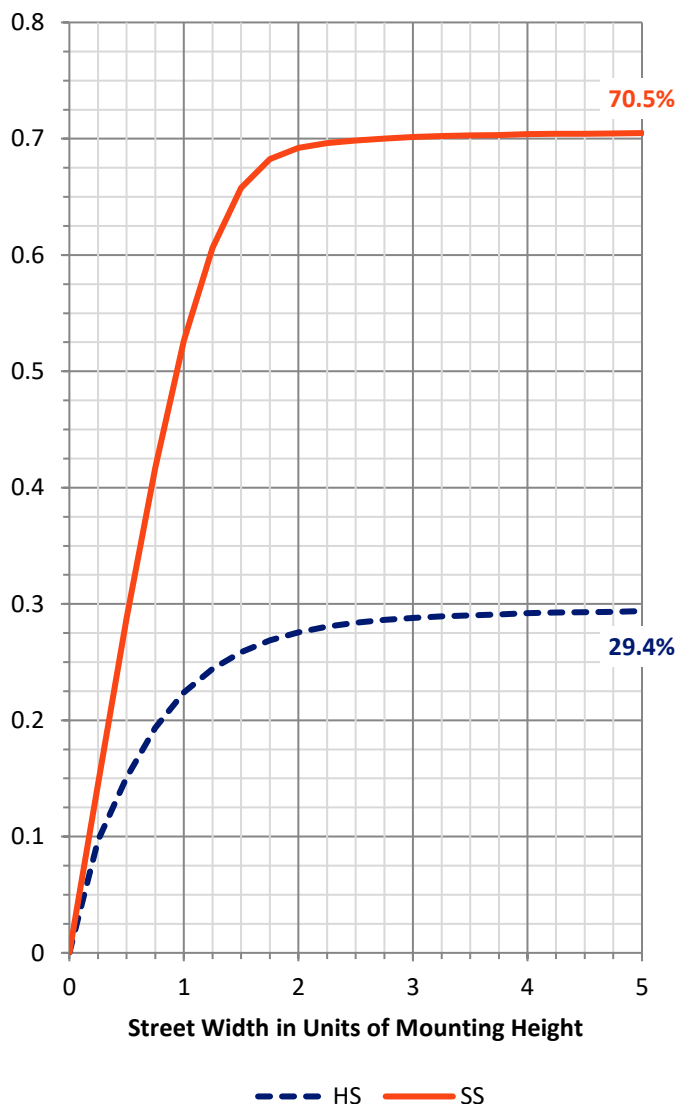
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5376.9	0.0	5376.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	12830.1	0.0	12830.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	18207.0	0.0	18207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	2.3
10°-20°	1159.1	6.4
20°-30°	1983.0	10.9
30°-40°	3039.2	16.7
40°-50°	4107.5	22.6
50°-60°	4717.6	25.9
60°-70°	2150.4	11.8
70°-80°	530.2	2.9
80°-90°	96.4	0.5
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°	18207.0	100.0
0°-180°	18207.0	100.0

Coefficient of Utilization

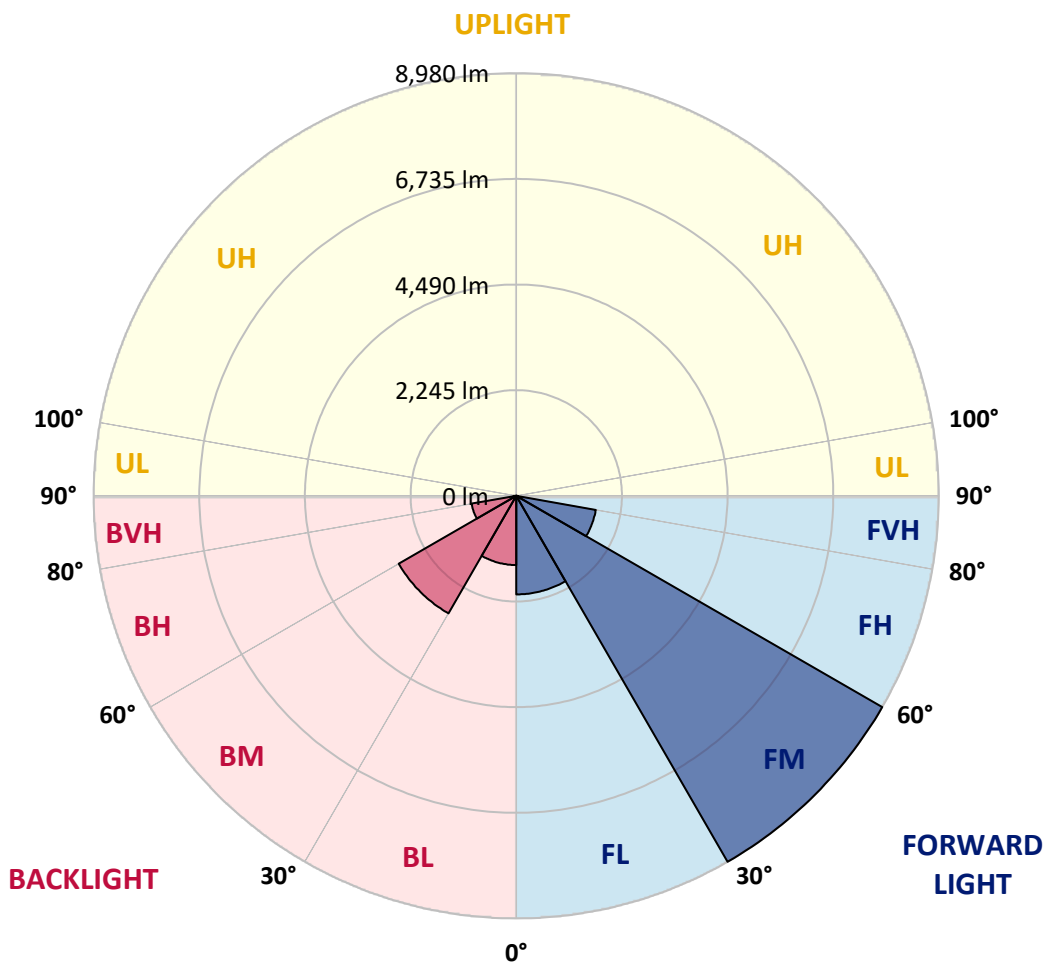


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2094.9	11.5			
FM (30°-60°)	8980.2	49.3			
FH (60°-80°)	1716.5	9.4			G1/1800
FVH (80°-90°)	38.5	0.2			G1/100
BL (0°-30°)	1470.8	8.1	B3/2500		
BM (30°-60°)	2884.1	15.8	B3/5000		
BH (60°-80°)	964.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	57.9	0.3			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°	79°	85°
0°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4431.7	4420.3	4447.5	4467.9	4492.9	4524.6	4540.5	4549.6	4629.0	4608.6	4669.8
5°	4336.4	4306.9	4327.3	4343.2	4386.3	4424.8	4467.9	4536.0	4608.6	4640.3	4715.2
7.5°	4252.5	4236.6	4232.1	4243.4	4302.4	4352.3	4427.1	4526.9	4644.8	4697.0	4740.1
10°	4114.1	4091.5	4125.5	4200.3	4216.2	4320.5	4406.7	4549.6	4651.6	4742.4	4869.4
12.5°	4052.9	4030.2	4037.0	4080.1	4191.2	4291.0	4393.1	4554.1	4769.6	4805.9	4976.0
15°	4150.4	4127.7	4134.5	4123.2	4229.8	4282.0	4443.0	4644.8	4851.2	4912.5	5093.9
17.5°	4372.7	4375.0	4345.5	4320.5	4295.6	4406.7	4517.8	4699.3	4883.0	5037.2	5173.3
20°	4796.8	4722.0	4663.0	4522.4	4483.8	4531.4	4672.1	4846.7	5012.3	5139.3	5293.5
22.5°	5123.4	5130.2	5046.3	4814.9	4731.0	4751.4	4871.6	5014.5	5196.0	5286.7	5463.6
25°	5597.4	5549.8	5459.1	5275.3	5087.1	5103.0	5191.4	5320.7	5370.6	5434.1	5626.9
27.5°	6030.6	6044.2	5865.0	5692.7	5459.1	5413.7	5572.5	5595.1	5511.2	5631.4	5697.2
30°	6470.6	6459.2	6341.3	6139.4	5910.4	5919.5	5989.8	5878.6	5763.0	5828.7	5874.1
32.5°	6926.4	6797.2	6792.6	6611.2	6436.6	6352.6	6266.5	6320.9	6141.7	6155.3	6112.2
35°	7291.6	7309.7	7205.4	7076.1	6989.9	6842.5	6606.7	6704.2	6670.2	6654.3	6468.3
37.5°	7556.9	7486.6	7538.8	7495.7	7414.1	7230.4	6985.4	7078.4	7094.3	7171.4	6955.9
40°	7774.7	7745.2	7883.5	7906.2	7849.5	7452.6	7012.6	7289.3	7527.5	7695.3	7439.0
42.5°	7879.0	7942.5	8087.7	8262.3	8135.3	7711.2	7153.2	7450.3	7981.1	8246.4	7897.1
45°	8019.6	7938.0	8153.4	8473.2	8475.5	7928.9	7289.3	7668.1	8334.9	8720.4	8210.1
47.5°	7876.7	7917.6	8139.8	8545.8	8650.1	8158.0	7656.7	7976.5	8725.0	9067.4	8500.4
50°	7556.9	7638.6	8044.6	8466.4	8781.7	8400.6	8078.6	8309.9	9085.6	9346.4	8548.1
52.5°	7223.5	7268.9	7903.9	8527.6	8840.6	8713.6	8643.3	8770.3	9525.6	9661.6	8607.0
55°	6316.4	6531.8	7439.0	8500.4	9128.7	9278.3	9223.9	9409.9	10024.5	10160.6	8929.1
56°	5896.8	6010.2	7160.0	8373.4	9185.4	9484.7	9457.5	9541.4	10289.9	10432.8	8979.0
57.5°	5121.1	5130.2	6105.4	7811.0	8972.2	9546.0	9518.8	9584.5	10237.7	10140.2	8541.2
60°	3204.7	3345.3	4155.0	6007.9	7629.5	8856.5	9010.7	8482.3	8632.0	8425.6	6645.2
62.5°	1660.2	1639.8	2177.3	3513.1	5064.4	6341.3	6484.2	6459.2	6227.9	5926.3	4340.9
65°	827.8	832.4	1138.5	1739.5	2594.6	3320.3	3719.5	3762.6	3148.0	2896.2	2059.3
67.5°	601.0	623.7	818.7	1063.7	1222.4	1367.6	1676.0	1644.3	1245.1	1183.9	1097.7
70°	467.2	487.6	664.5	811.9	737.1	737.1	802.9	830.1	886.8	911.7	941.2
72.5°	340.2	356.1	508.0	560.2	483.1	519.4	601.0	664.5	723.5	732.6	766.6
75°	233.6	247.2	333.4	308.4	290.3	358.3	440.0	499.0	542.0	564.7	585.1
77.5°	152.0	156.5	190.5	161.0	186.0	231.3	285.8	335.7	378.8	396.9	401.4
80°	68.0	74.8	81.6	102.1	129.3	165.6	204.1	244.9	272.2	279.0	292.6
82.5°	38.6	38.6	49.9	72.6	95.3	120.2	147.4	176.9	208.7	215.5	213.2
85°	20.4	20.4	29.5	43.1	59.0	70.3	68.0	70.3	74.8	86.2	83.9
87.5°	6.8	6.8	9.1	9.1	11.3	13.6	11.3	15.9	20.4	20.4	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°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4651.6	4672.1	4644.8	4703.8	4703.8	4692.5	4635.8	4653.9	4667.5	4667.5	4678.9
5°	4740.1	4733.3	4751.4	4681.1	4638.0	4622.2	4529.2	4483.8	4445.3	4443.0	4409.0
7.5°	4790.0	4771.8	4765.0	4712.9	4522.4	4406.7	4207.1	4091.5	4066.5	3978.1	4012.1
10°	4869.4	4903.4	4869.4	4585.9	4320.5	4055.2	3860.1	3680.9	3610.6	3553.9	3519.9
12.5°	5032.7	5016.8	4819.5	4436.2	4064.2	3749.0	3458.7	3270.4	3200.1	3150.2	3145.7
15°	5171.0	5091.6	4790.0	4200.3	3665.1	3329.4	3091.3	2957.5	2925.7	2930.2	2950.7
17.5°	5218.6	5164.2	4635.8	3955.4	3368.0	2973.3	2862.2	2841.8	2871.3	2905.3	2914.4
20°	5293.5	5207.3	4572.3	3622.0	3000.6	2751.1	2744.3	2816.8	2871.3	2921.2	2928.0
22.5°	5450.0	5232.3	4365.9	3306.7	2748.8	2685.3	2751.1	2812.3	2896.2	2937.0	2900.8
25°	5495.3	5177.8	4075.6	2928.0	2590.0	2644.5	2714.8	2798.7	2857.7	2880.3	2896.2
27.5°	5533.9	5093.9	3683.2	2676.2	2540.1	2642.2	2714.8	2785.1	2816.8	2837.3	2855.4
30°	5642.8	5069.0	3343.0	2508.4	2508.4	2596.8	2689.8	2708.0	2751.1	2776.0	2807.8
32.5°	5697.2	4896.6	2993.7	2401.8	2476.6	2619.5	2626.3	2660.4	2662.6	2683.0	2649.0
35°	5840.1	4774.1	2669.4	2324.7	2490.3	2596.8	2630.9	2610.5	2499.3	2444.9	2456.2
37.5°	5944.4	4712.9	2435.8	2315.6	2492.5	2621.8	2639.9	2485.7	2370.0	2279.3	2302.0
40°	6225.6	4560.9	2258.9	2299.7	2512.9	2649.0	2599.1	2431.3	2222.6	2129.6	2113.8
42.5°	6441.1	4452.1	2147.8	2281.6	2528.8	2687.6	2578.7	2322.4	2109.2	2023.0	2045.7
45°	6690.6	4427.1	2088.8	2286.1	2556.0	2708.0	2553.8	2238.5	2011.7	1977.7	1970.9
47.5°	6779.0	4247.9	2025.3	2247.6	2549.2	2701.2	2469.8	2175.0	1975.4	1980.0	1998.1
50°	6631.6	4064.2	1977.7	2168.2	2503.9	2639.9	2338.3	2091.1	1955.0	2011.7	2043.5
52.5°	6443.4	3876.0	1880.2	2061.6	2410.9	2544.7	2277.1	2086.6	1934.6	1916.5	1923.3
55°	6500.1	3721.8	1744.1	1916.5	2261.2	2367.8	2209.0	2043.5	1884.7	1816.7	1839.3
56°	6316.4	3563.0	1655.6	1825.7	2159.1	2254.4	2175.0	2004.9	1843.9	1798.5	1798.5
57.5°	5797.0	3030.0	1540.0	1680.6	1943.7	2057.1	2109.2	1982.2	1798.5	1719.1	1721.4
60°	4275.2	2154.6	1381.2	1481.0	1610.3	1701.0	1943.7	1918.7	1685.1	1630.7	1610.3
62.5°	2635.4	1574.0	1267.8	1306.4	1372.1	1447.0	1696.5	1737.3	1564.9	1505.9	1492.3
65°	1476.5	1204.3	1181.6	1197.5	1229.3	1267.8	1408.4	1499.1	1381.2	1290.5	1286.0
67.5°	1079.6	1077.3	1095.4	1109.0	1122.7	1122.7	1156.7	1193.0	1177.1	1104.5	1097.7
70°	959.4	966.2	979.8	982.0	986.6	970.7	943.5	932.1	950.3	904.9	895.9
72.5°	791.5	814.2	830.1	832.4	807.4	787.0	750.7	712.1	698.5	689.5	687.2
75°	607.8	623.7	630.5	628.2	619.2	589.7	546.6	508.0	483.1	455.9	469.5
77.5°	410.5	433.2	444.5	444.5	430.9	385.6	365.1	335.7	310.7	281.2	285.8
80°	288.0	303.9	322.1	319.8	297.1	274.4	244.9	217.7	197.3	174.6	172.4
82.5°	215.5	224.5	233.6	229.1	213.2	190.5	170.1	145.2	122.5	106.6	106.6
85°	77.1	83.9	102.1	106.6	115.7	115.7	97.5	81.6	65.8	54.4	54.4
87.5°	22.7	22.7	24.9	24.9	22.7	24.9	20.4	22.7	24.9	15.9	15.9
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)