

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: P529051

Luminaire Tested: **GALN-SA4A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8743 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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



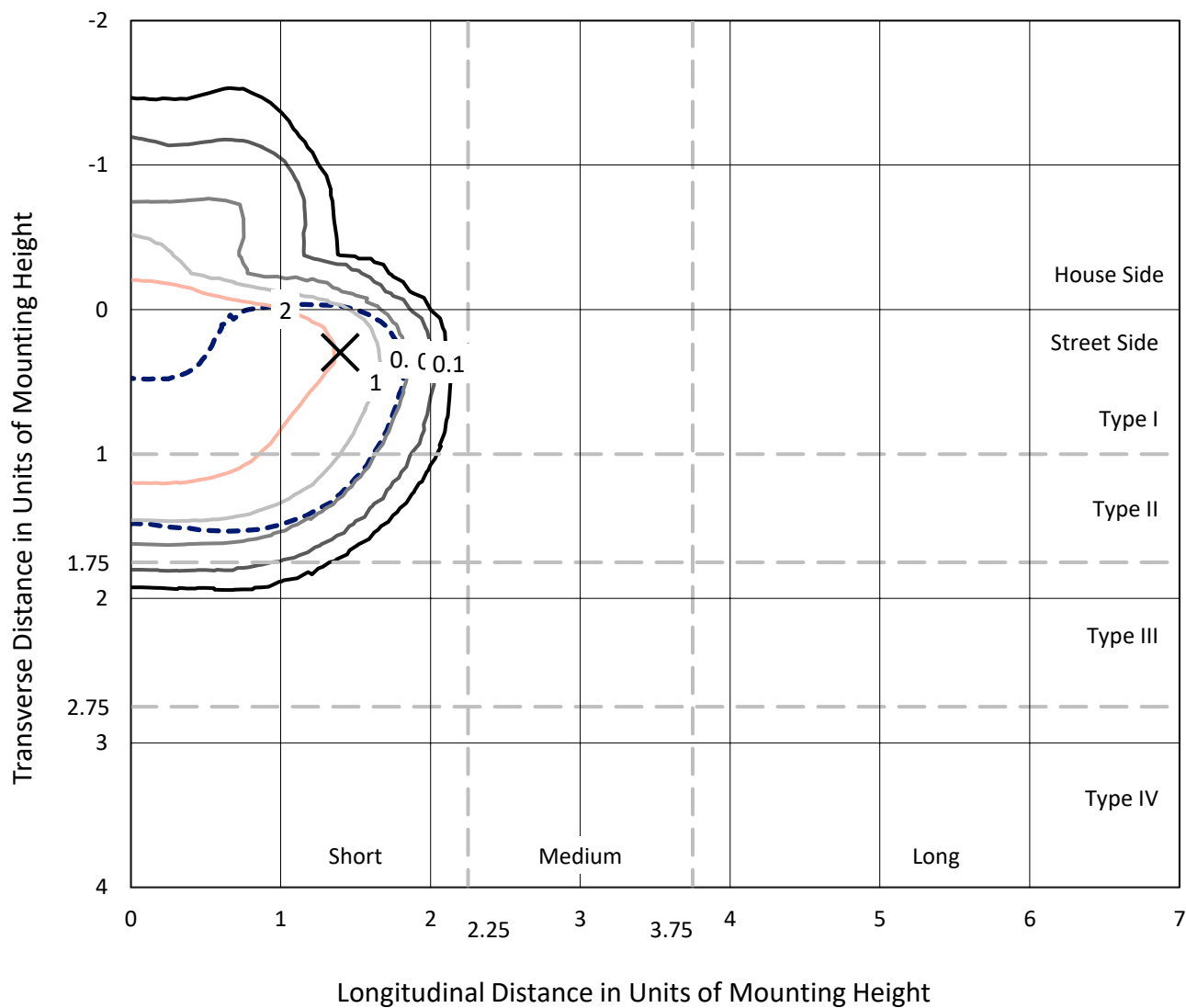
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

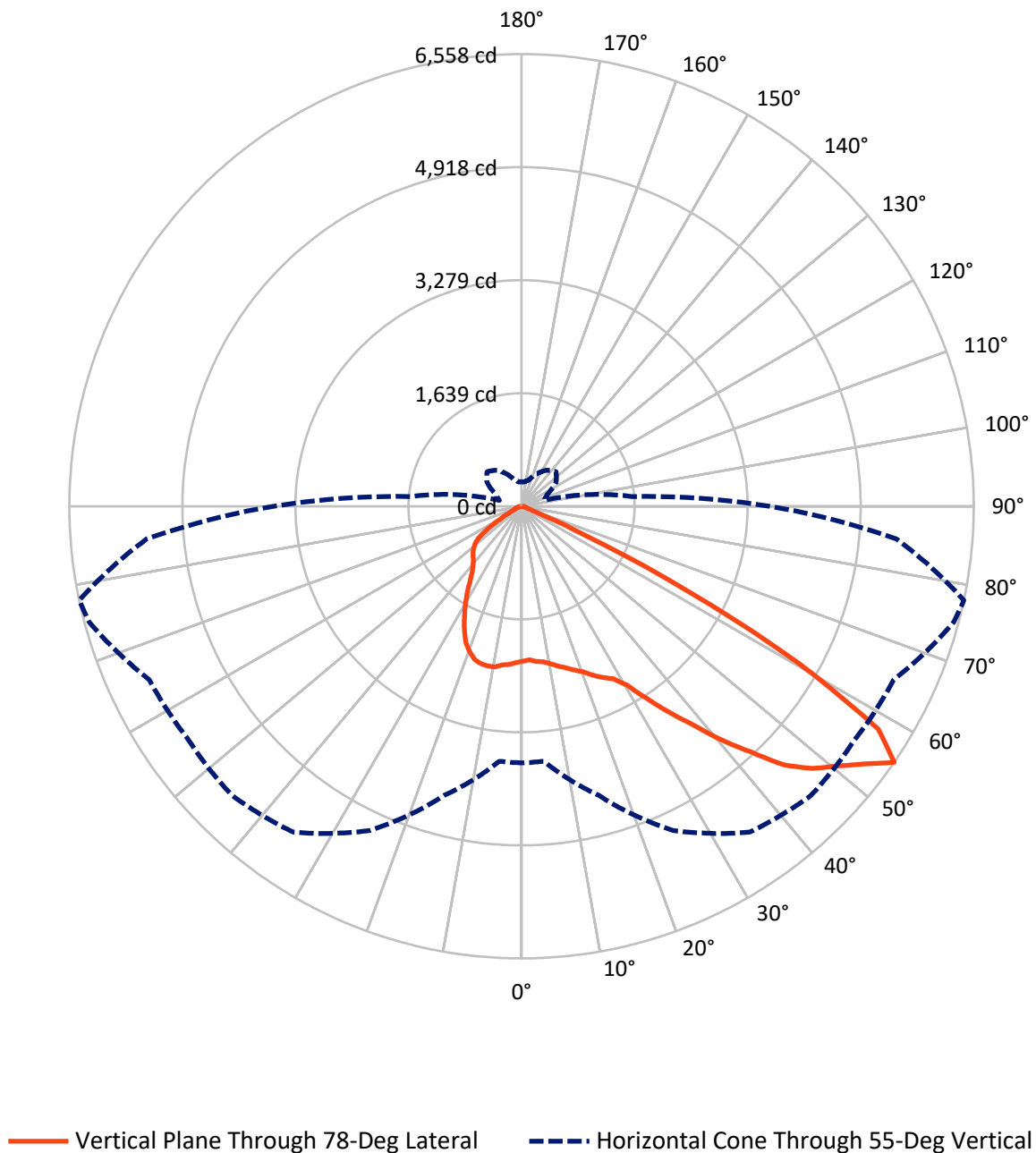


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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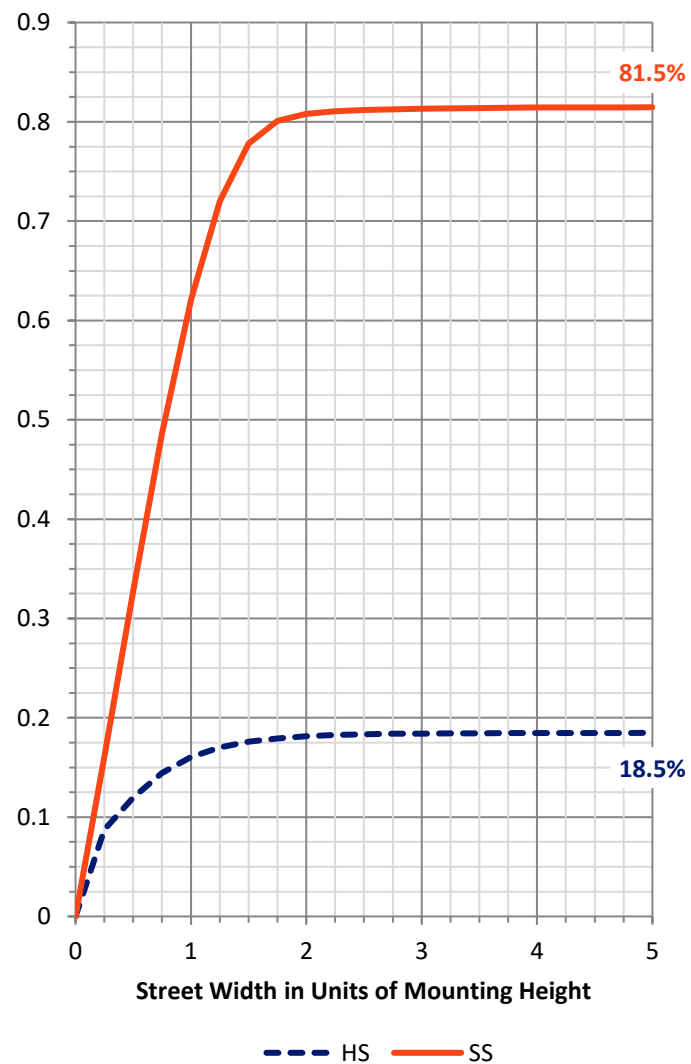
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.9	0.0	1623.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7119.1	0.0	7119.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	8743.0	0.0	8743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	2.3
10°-20°	530.5	6.1
20°-30°	929.8	10.6
30°-40°	1533.1	17.5
40°-50°	2230.9	25.5
50°-60°	2527.8	28.9
60°-70°	722.7	8.3
70°-80°	56.1	0.6
80°-90°	11.7	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°	8743.0	100.0
0°-180°	8743.0	100.0

Coefficient of Utilization



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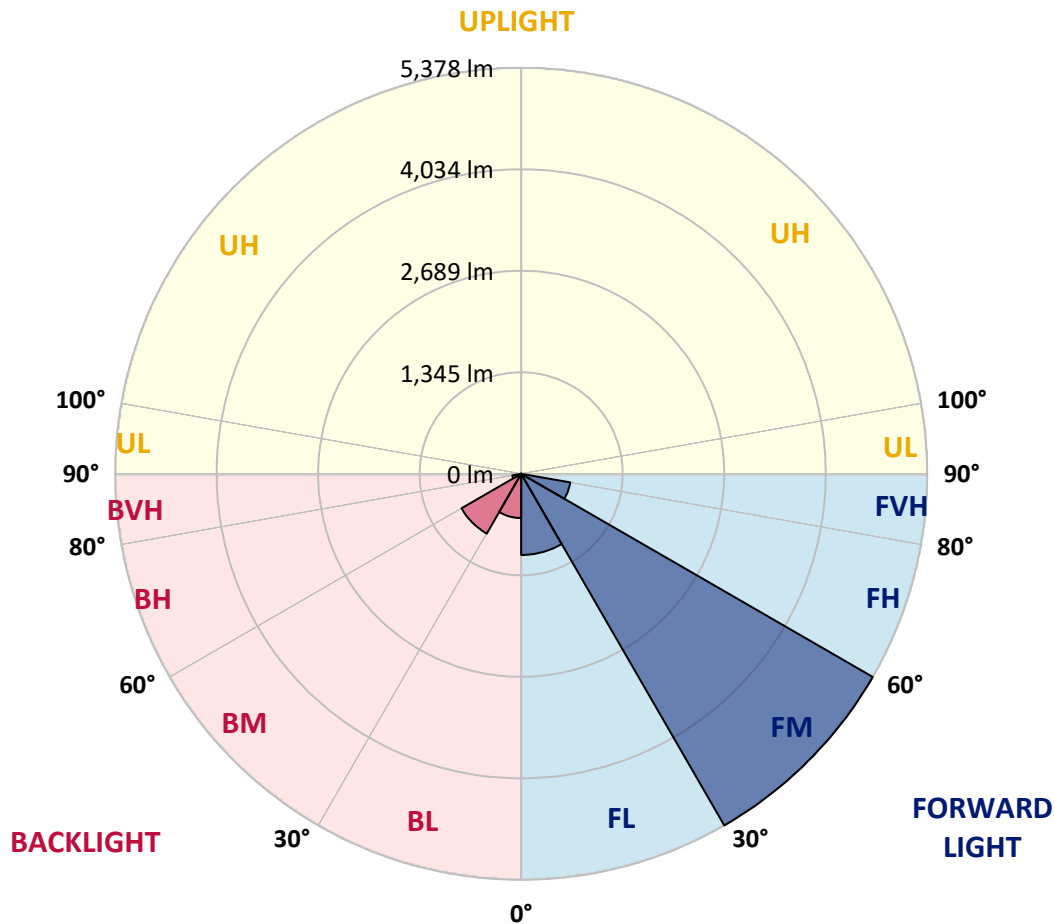
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1074.8	12.3			
FM	(30°-60°)	5378.3	61.5			
FH	(60°-80°)	660.3	7.6			G1/1800
FVH	(80°-90°)	5.7	0.1			G0/10
BL	(0°-30°)	585.9	6.7	B2/1000		
BM	(30°-60°)	913.5	10.4	B1/1000		
BH	(60°-80°)	118.5	1.4	B1/500		G1/500
BVH	(80°-90°)	6.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8
2.5°	2113.4	2133.7	2136.8	2161.9	2160.3	2202.5	2215.0	2216.6	2244.7	2230.6	2266.6
5°	2054.0	2043.1	2038.4	2082.1	2094.6	2132.2	2163.4	2182.2	2240.0	2260.3	2297.9
7.5°	2000.9	2000.9	2004.0	2043.1	2038.4	2086.8	2119.7	2177.5	2261.9	2279.1	2324.4
10°	1949.3	1930.5	1954.0	1994.6	2029.0	2050.9	2119.7	2174.4	2272.8	2322.9	2385.4
12.5°	1922.7	1932.1	1935.2	1964.9	2002.4	2068.1	2105.6	2196.2	2351.0	2380.7	2447.9
15°	2090.0	2071.2	2025.9	1999.3	2030.6	2061.8	2155.6	2247.8	2391.6	2433.8	2508.9
17.5°	2283.8	2268.2	2230.6	2158.7	2088.4	2146.2	2219.7	2304.1	2435.4	2497.9	2608.9
20°	2537.0	2512.0	2474.5	2333.8	2272.8	2210.3	2288.5	2388.5	2507.3	2563.6	2677.7
22.5°	2838.7	2838.7	2754.3	2583.9	2457.3	2397.9	2430.7	2488.6	2587.0	2663.6	2776.2
25°	3152.9	3143.5	3066.9	2890.3	2676.1	2605.8	2643.3	2684.0	2710.5	2752.7	2827.8
27.5°	3512.4	3457.7	3360.8	3165.4	2976.3	2840.3	2880.9	2845.0	2812.1	2834.0	2941.9
30°	3756.3	3790.7	3667.2	3479.6	3301.4	3149.8	3157.6	3126.3	2976.3	3007.5	3071.6
32.5°	4009.5	4031.4	3962.6	3859.5	3681.3	3504.6	3440.5	3414.0	3301.4	3315.5	3252.9
35°	4220.5	4262.7	4201.8	4156.5	4104.9	3962.6	3786.0	3872.0	3690.6	3656.2	3493.7
37.5°	4414.4	4401.9	4473.8	4426.9	4415.9	4315.9	4122.1	4139.3	4017.3	4009.5	3821.9
40°	4587.9	4591.0	4689.5	4711.4	4667.6	4489.4	4208.0	4344.0	4442.5	4451.9	4211.2
42.5°	4731.7	4773.9	4858.3	5035.0	4969.3	4672.3	4297.1	4445.6	4811.4	4869.3	4580.1
45°	4856.8	4942.7	5047.5	5205.3	5167.8	4931.8	4519.1	4655.1	5205.3	5357.0	4927.1
47.5°	4864.6	4977.1	5091.2	5325.7	5372.6	5070.9	4748.9	4986.5	5518.0	5682.1	5180.3
50°	4833.3	4892.7	5120.9	5375.7	5482.0	5297.6	5070.9	5264.7	5821.2	5924.4	5308.5
52.5°	4462.8	4508.2	4966.2	5422.6	5679.0	5553.9	5497.6	5652.4	6130.7	6207.3	5428.9
55°	3720.3	3712.5	4342.5	5186.6	5769.6	5933.8	5899.4	5954.1	6488.7	6557.5	5458.6
57.5°	2544.8	2687.1	3231.1	4319.0	5214.7	5844.7	5880.6	5790.0	6071.3	6097.9	4758.3
60°	1372.5	1431.9	1869.5	2882.5	3970.4	4763.0	4856.8	4692.6	4670.7	4595.7	3396.8
62.5°	545.5	575.2	823.8	1427.2	2163.4	2895.0	3096.6	3029.4	2885.6	2688.6	1758.6
65°	259.5	278.2	409.5	667.5	959.8	1206.8	1408.4	1470.9	1084.8	977.0	579.9
67.5°	176.6	190.7	298.6	381.4	342.3	358.0	465.8	433.0	254.8	217.3	161.0
70°	134.4	143.8	239.2	259.5	153.2	107.9	120.4	112.5	104.7	106.3	104.7
72.5°	95.4	103.2	175.1	153.2	67.2	50.0	64.1	76.6	76.6	76.6	75.0
75°	57.8	65.7	101.6	59.4	26.6	26.6	40.6	51.6	54.7	56.3	53.1
77.5°	29.7	37.5	34.4	17.2	17.2	20.3	29.7	36.0	39.1	39.1	37.5
80°	6.3	6.3	6.3	9.4	17.2	21.9	29.7	32.8	37.5	37.5	34.4
82.5°	0.0	1.6	4.7	9.4	15.6	20.3	28.1	32.8	37.5	39.1	36.0
85°	0.0	1.6	3.1	6.3	10.9	12.5	10.9	9.4	9.4	9.4	9.4
87.5°	0.0	0.0	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
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°	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8	2247.8
2.5°	2269.7	2274.4	2266.6	2265.0	2258.8	2277.5	2232.2	2221.3	2249.4	2222.8	2229.1
5°	2299.4	2310.4	2296.3	2272.8	2238.5	2185.3	2140.0	2080.6	2052.4	2032.1	2029.0
7.5°	2321.3	2329.1	2315.0	2240.0	2136.8	2002.4	1902.4	1828.9	1771.1	1753.9	1725.7
10°	2410.4	2412.0	2341.6	2175.9	1974.3	1797.6	1644.4	1531.9	1474.1	1438.1	1422.5
12.5°	2469.8	2466.7	2324.4	2049.3	1780.4	1546.0	1370.9	1234.9	1181.8	1164.6	1153.6
15°	2544.8	2527.6	2283.8	1919.6	1530.3	1277.1	1119.2	1025.4	1020.7	1009.8	1020.7
17.5°	2604.2	2555.8	2224.4	1683.5	1291.2	1052.0	948.8	955.1	967.6	978.5	980.1
20°	2701.1	2601.1	2088.4	1477.2	1069.2	901.9	900.4	928.5	959.8	972.3	984.8
22.5°	2774.6	2619.9	1943.0	1256.8	887.9	841.0	867.6	909.8	933.2	945.7	964.5
25°	2801.2	2568.3	1749.2	1036.4	800.3	812.8	853.5	881.6	911.3	925.4	917.6
27.5°	2827.8	2541.7	1517.8	853.5	753.4	794.1	828.5	856.6	866.0	884.8	897.3
30°	2891.9	2449.5	1309.9	737.8	730.0	781.6	806.6	816.0	841.0	851.9	851.9
32.5°	2943.4	2413.5	1089.5	683.1	726.9	787.8	791.0	791.0	794.1	786.3	783.1
35°	3049.7	2290.0	892.6	650.3	725.3	789.4	797.2	770.6	698.7	670.6	662.8
37.5°	3181.0	2210.3	747.2	642.5	736.3	808.2	820.7	720.6	626.8	581.5	573.7
40°	3340.5	2154.0	651.8	639.3	761.3	851.9	814.4	681.5	559.6	494.0	490.8
42.5°	3526.5	2102.5	587.7	637.8	792.5	897.3	808.2	648.7	490.8	447.1	453.3
45°	3675.0	2074.3	544.0	626.8	803.5	923.8	812.8	590.9	462.7	434.6	437.7
47.5°	3790.7	2014.9	508.0	608.1	801.9	933.2	770.6	567.4	448.6	456.4	464.3
50°	3793.8	1935.2	462.7	567.4	778.5	916.0	722.2	545.5	445.5	478.3	494.0
52.5°	3751.6	1822.6	414.2	509.6	723.7	856.6	678.4	536.2	431.4	428.3	447.1
55°	3601.5	1611.6	333.0	412.7	611.2	706.6	639.3	519.0	389.2	353.3	356.4
57.5°	2910.6	1155.2	245.4	295.4	433.0	517.4	576.8	511.2	350.1	300.1	301.7
60°	1802.3	655.0	179.8	201.6	267.3	314.2	467.4	475.2	312.6	253.2	250.1
62.5°	925.4	323.6	139.1	142.2	164.1	184.5	320.4	398.6	282.9	240.7	240.7
65°	309.5	159.4	121.9	109.4	109.4	114.1	193.8	276.7	239.2	201.6	201.6
67.5°	132.9	118.8	106.3	95.4	87.5	82.8	109.4	161.0	178.2	153.2	146.9
70°	103.2	100.0	92.2	79.7	68.8	62.5	64.1	82.8	101.6	98.5	95.4
72.5°	76.6	76.6	73.5	62.5	53.1	45.3	42.2	43.8	48.5	50.0	51.6
75°	53.1	54.7	54.7	48.5	39.1	32.8	28.1	23.4	18.8	15.6	14.1
77.5°	36.0	37.5	40.6	36.0	29.7	21.9	17.2	12.5	7.8	3.1	3.1
80°	31.3	36.0	39.1	36.0	31.3	23.4	17.2	9.4	4.7	0.0	0.0
82.5°	32.8	36.0	40.6	34.4	29.7	21.9	17.2	10.9	4.7	1.6	0.0
85°	7.8	7.8	9.4	10.9	14.1	15.6	12.5	7.8	4.7	1.6	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	0.0	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)