

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: P533727

Luminaire Tested: **GALN-SA9A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533727
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-SA9A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 21788 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

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

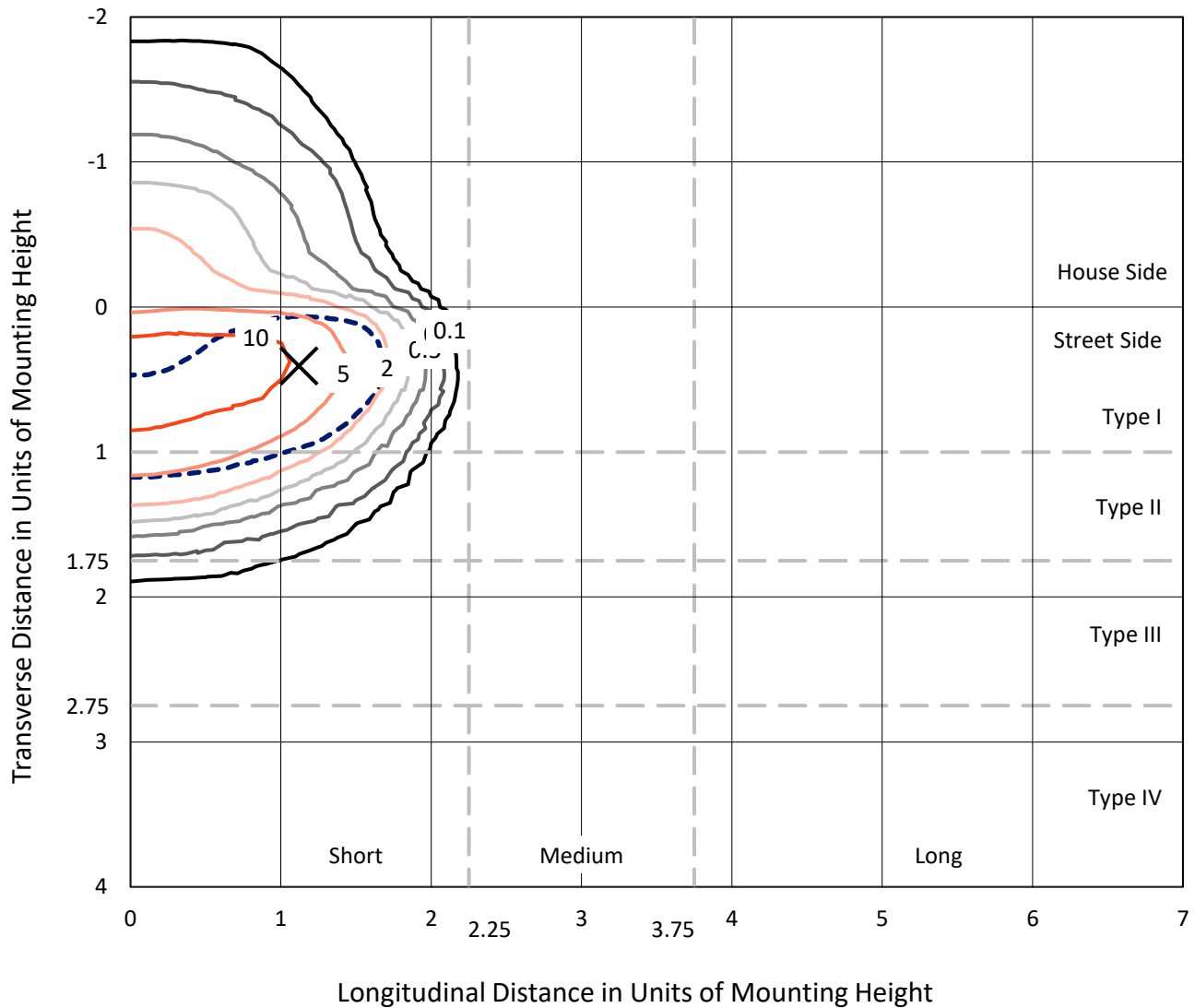


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

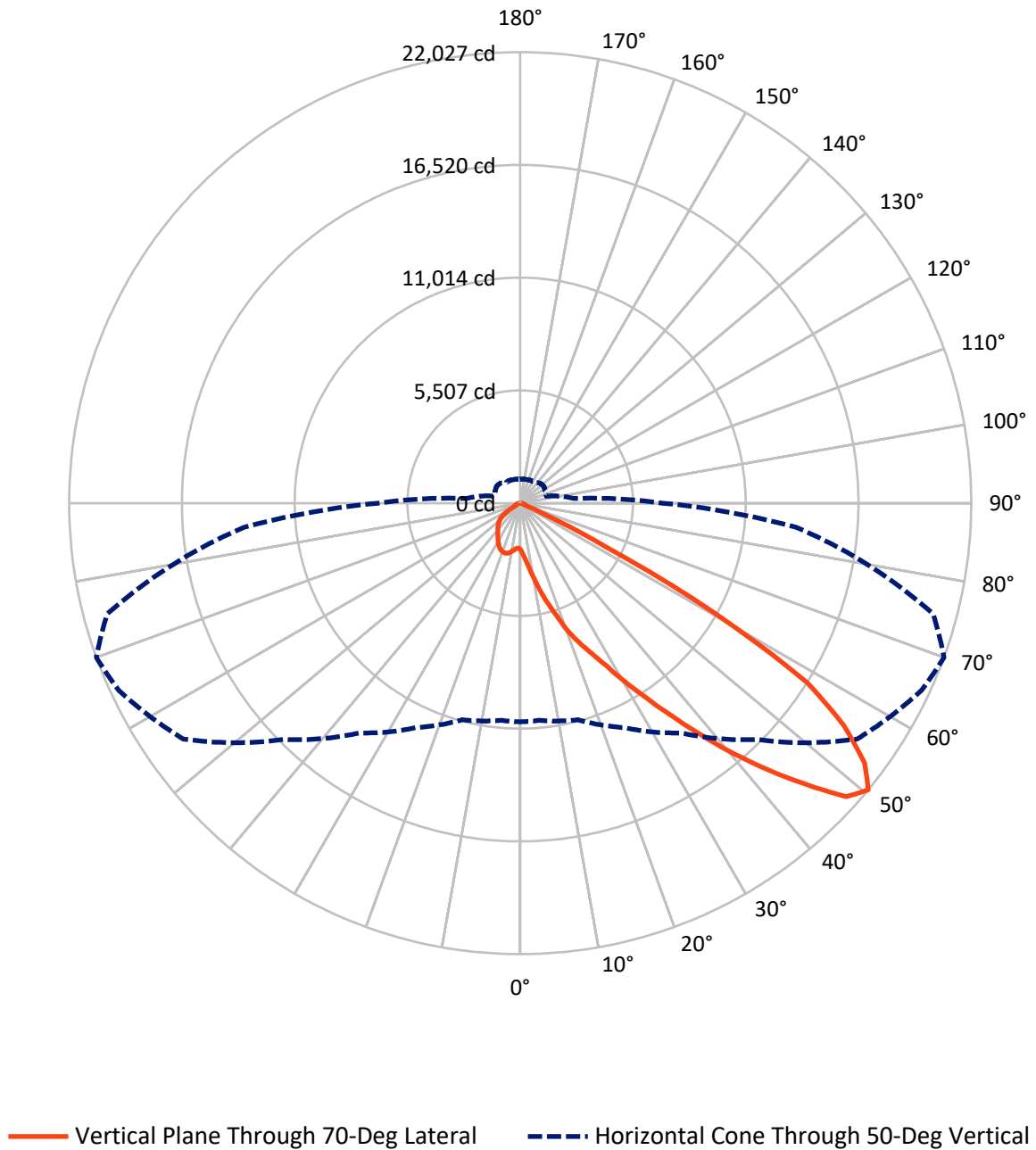


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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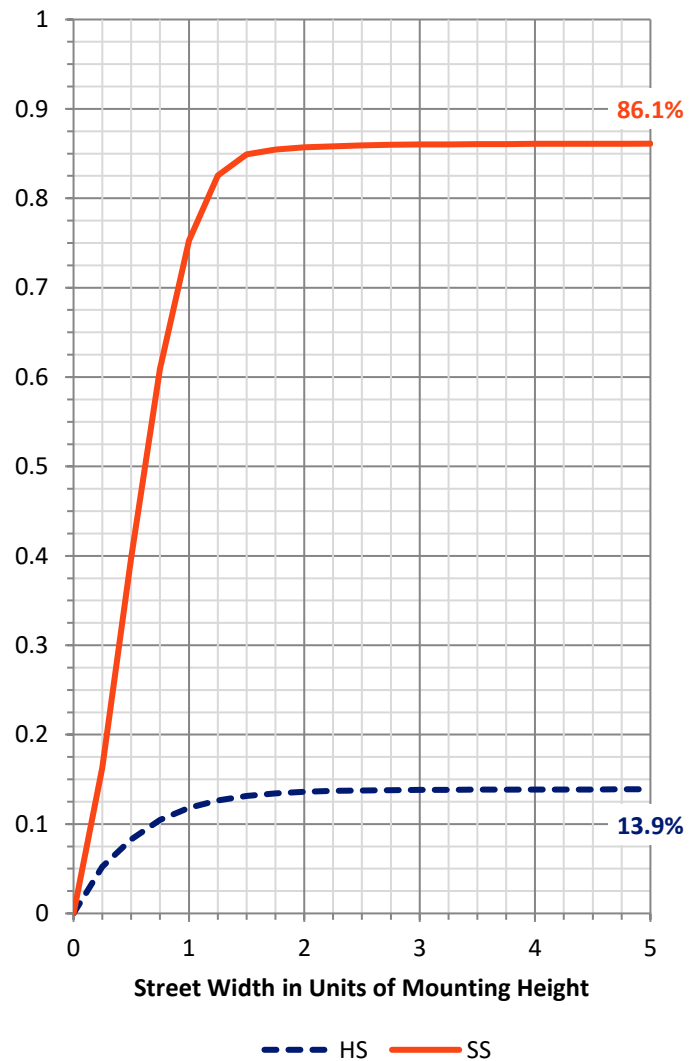
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3042.9	0.0	3042.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18745.2	0.0	18745.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	21788.0	0.0	21788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	1.3
10°-20°	1269.4	5.8
20°-30°	2663.1	12.2
30°-40°	4590.2	21.1
40°-50°	6708.6	30.8
50°-60°	5224.9	24.0
60°-70°	885.3	4.1
70°-80°	121.6	0.6
80°-90°	31.5	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°	21788.0	100.0
0°-180°	21788.0	100.0

Coefficient of Utilization



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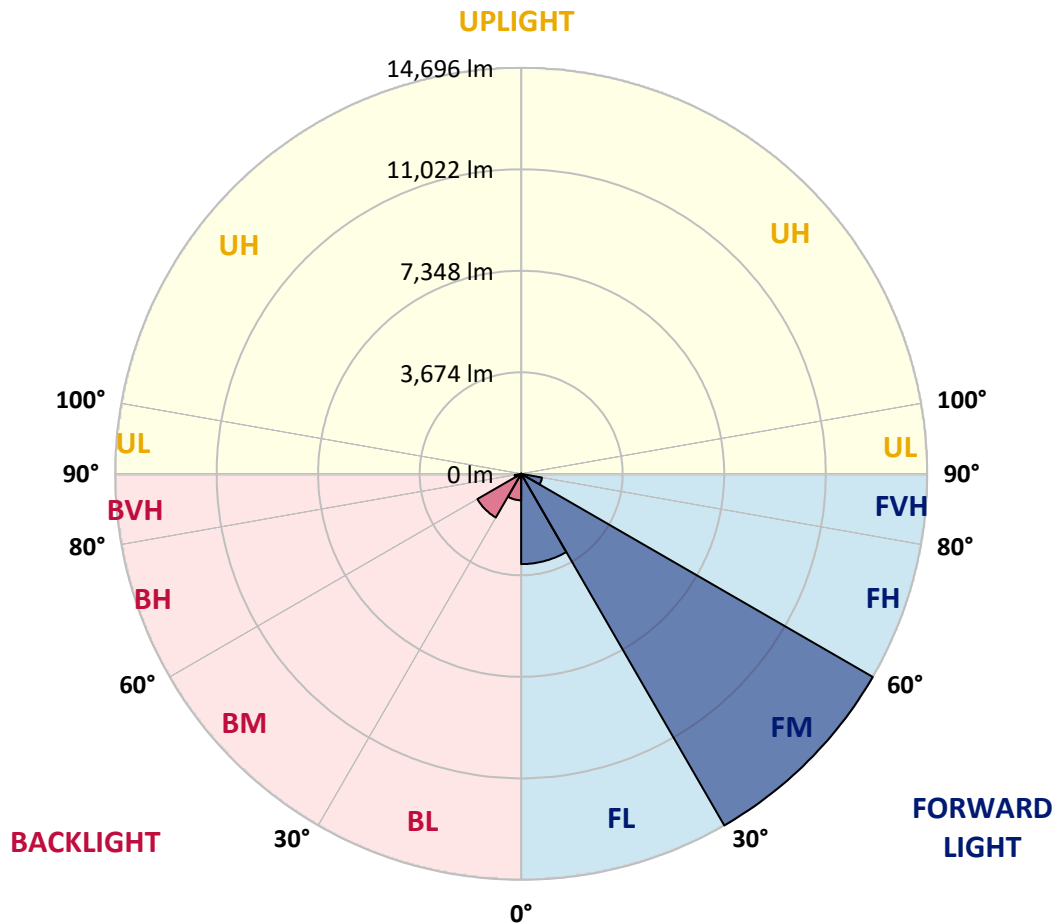
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3268.5	15.0			
FM	(30°-60°)	14695.6	67.4			
FH	(60°-80°)	766.5	3.5			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	957.5	4.4	B2/1000		
BM	(30°-60°)	1828.0	8.4	B2/2500		
BH	(60°-80°)	240.4	1.1	B1/500		G1/500
BVH	(80°-90°)	16.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	2955.3	2933.9	2887.3	2801.3	2765.5	2679.5	2629.4	2532.6	2471.7	2403.7	2328.5
5°	4162.6	4051.5	3983.4	3886.7	3603.7	3428.2	3138.0	2890.9	2776.2	2650.9	2478.9
7.5°	5409.2	5337.5	5244.4	5036.6	4843.2	4477.8	3979.9	3435.4	3202.5	2987.6	2647.3
10°	6440.9	6240.3	6229.5	6075.5	5864.1	5427.1	4828.9	4151.8	3736.3	3421.0	2887.3
12.5°	7160.9	6978.2	7060.6	7042.7	6845.7	6444.4	5753.1	4857.5	4424.1	3933.3	3134.5
15°	7816.4	7741.2	7716.1	7694.6	7615.8	7318.5	6698.8	5717.2	5090.4	4499.3	3413.9
17.5°	8457.7	8264.2	8357.4	8375.3	8368.1	8099.4	7519.1	6534.0	5796.1	5097.5	3707.6
20°	9027.2	9045.1	8919.8	8894.7	8873.2	8862.4	8296.5	7343.6	6663.0	5724.4	4090.9
22.5°	9758.0	9632.6	9743.7	9672.0	9532.3	9446.4	9012.9	8060.0	7415.2	6480.3	4481.4
25°	10621.3	10721.6	10460.1	10431.5	10277.4	9980.1	9589.6	8862.4	8138.8	7182.4	4904.1
27.5°	11685.2	11509.7	11441.7	11284.0	11004.6	10879.2	10420.7	9689.9	9012.9	7920.3	5312.5
30°	12598.7	12552.1	12211.8	12025.6	11782.0	11778.4	11137.2	10811.2	10152.1	9077.4	5874.9
32.5°	13343.8	13139.6	13014.3	12885.3	12688.3	12742.0	12201.1	12029.1	11366.4	10152.1	6537.6
35°	13841.8	13694.9	13619.7	13422.6	13365.3	13605.3	13379.6	13308.0	12763.5	11663.8	7314.9
37.5°	13999.4	14045.9	14031.6	13784.4	13906.2	14554.6	14844.8	14658.5	14371.9	13257.9	8156.7
40°	14139.1	14171.3	14099.7	14389.8	14737.3	15475.3	16524.8	16216.8	16109.3	14873.4	9328.1
42.5°	14217.9	14192.8	14192.8	14694.3	15220.9	16704.0	18147.6	17943.4	17861.0	16592.9	10682.2
45°	13877.6	13634.0	13895.5	14576.1	15636.5	17309.4	19444.4	19727.4	19609.2	18638.4	12265.6
47.5°	12605.9	12756.3	12903.2	13813.1	15131.4	17123.1	20239.6	21203.2	21421.8	20357.8	13304.4
50°	10682.2	10650.0	10954.5	12100.8	13702.0	16320.7	20085.6	21629.5	22027.2	20873.7	13522.9
52.5°	7769.9	8006.3	8335.9	9475.0	11373.6	14243.0	18097.4	20529.8	21060.0	20239.6	13379.6
55°	4524.4	4262.9	5004.4	5968.0	7759.1	10743.1	15299.7	18197.8	19179.3	19086.1	12656.0
57.5°	1812.6	1755.3	2009.6	2708.2	4047.9	6659.4	11126.4	14952.2	16524.8	17481.3	11122.8
60°	795.3	777.3	913.5	1103.3	1655.0	3070.0	6086.2	9299.5	10940.1	12215.4	7655.2
62.5°	573.2	566.0	634.1	702.1	874.1	1336.2	2557.7	3747.0	4671.2	5642.0	3428.2
65°	462.1	480.0	526.6	562.4	644.8	741.5	902.7	1042.4	1278.9	1325.4	755.9
67.5°	376.1	390.5	433.5	472.9	487.2	401.2	415.5	365.4	365.4	326.0	261.5
70°	275.8	279.4	329.6	376.1	300.9	161.2	283.0	283.0	254.3	243.6	222.1
72.5°	204.2	207.8	247.2	232.8	118.2	100.3	207.8	229.3	207.8	197.0	179.1
75°	150.5	154.0	129.0	53.7	50.2	64.5	121.8	157.6	150.5	146.9	136.1
77.5°	28.7	21.5	17.9	25.1	35.8	53.7	78.8	96.7	100.3	107.5	100.3
80°	3.6	3.6	10.7	21.5	39.4	57.3	82.4	93.1	96.7	100.3	93.1
82.5°	0.0	3.6	10.7	21.5	39.4	53.7	71.6	82.4	89.6	93.1	89.6
85°	0.0	3.6	7.2	17.9	32.2	39.4	35.8	25.1	21.5	25.1	17.9
87.5°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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°	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8	2256.8
2.5°	2285.5	2271.1	2221.0	2167.3	2120.7	2142.2	2120.7	2102.8	2109.9	2102.8	2095.6
5°	2410.8	2346.4	2238.9	2192.3	2152.9	2149.3	2138.6	2135.0	2138.6	2138.6	2106.4
7.5°	2529.1	2425.2	2310.5	2260.4	2213.8	2217.4	2192.3	2192.3	2188.7	2170.8	2163.7
10°	2708.2	2568.5	2421.6	2332.0	2274.7	2264.0	2238.9	2213.8	2213.8	2213.8	2178.0
12.5°	2905.2	2729.7	2529.1	2425.2	2357.1	2303.4	2264.0	2256.8	2217.4	2210.2	2192.3
15°	3077.1	2855.0	2600.7	2457.4	2371.4	2299.8	2238.9	2199.5	2181.6	2170.8	2156.5
17.5°	3245.5	2962.5	2640.1	2457.4	2364.3	2281.9	2217.4	2181.6	2138.6	2145.8	2117.1
20°	3471.2	3077.1	2650.9	2410.8	2296.2	2217.4	2131.4	2113.5	2088.4	2066.9	2074.1
22.5°	3689.7	3159.5	2618.6	2353.5	2188.7	2095.6	2052.6	2031.1	2020.4	2002.5	1977.4
25°	3886.7	3249.1	2568.5	2249.6	2074.1	2006.1	1966.6	1963.1	1938.0	1938.0	1891.4
27.5°	4087.3	3281.3	2482.5	2127.8	1973.8	1934.4	1916.5	1909.3	1898.6	1873.5	1841.3
30°	4316.6	3292.1	2357.1	2002.5	1884.3	1841.3	1866.3	1884.3	1837.7	1791.1	1805.4
32.5°	4506.5	3267.0	2206.7	1884.3	1819.8	1798.3	1848.4	1866.3	1812.6	1762.5	1737.4
35°	4735.7	3206.1	2059.8	1791.1	1755.3	1798.3	1841.3	1841.3	1733.8	1672.9	1658.6
37.5°	5083.2	3138.0	1923.7	1712.3	1687.2	1776.8	1834.1	1794.7	1626.3	1551.1	1533.2
40°	5455.7	3095.1	1791.1	1633.5	1651.4	1741.0	1773.2	1651.4	1479.5	1432.9	1418.6
42.5°	5996.7	3009.1	1672.9	1565.4	1619.2	1690.8	1690.8	1472.3	1407.8	1382.7	1379.2
45°	6670.1	2948.2	1569.0	1508.1	1572.6	1590.5	1533.2	1379.2	1332.6	1325.4	1329.0
47.5°	6999.7	2830.0	1461.6	1440.1	1486.6	1490.2	1339.8	1303.9	1264.5	1253.8	1246.6
50°	6949.5	2618.6	1321.8	1350.5	1415.0	1379.2	1221.5	1228.7	1192.9	1189.3	1171.4
52.5°	6598.5	2285.5	1182.1	1250.2	1321.8	1218.0	1124.8	1117.7	1117.7	1071.1	1053.2
55°	5849.8	1841.3	1013.8	1099.7	1185.7	1024.5	999.4	992.3	974.4	931.4	920.6
57.5°	4631.8	1350.5	763.0	856.2	1006.6	870.5	866.9	834.7	788.1	755.9	755.9
60°	2754.7	777.3	480.0	523.0	666.3	705.7	784.5	770.2	691.4	641.2	626.9
62.5°	1257.4	401.2	304.5	311.7	358.2	458.5	616.1	712.9	601.8	515.8	508.7
65°	422.7	297.3	250.8	240.0	247.2	275.8	369.0	505.1	480.0	397.6	383.3
67.5°	257.9	265.1	236.4	218.5	218.5	214.9	211.4	229.3	283.0	275.8	279.4
70°	222.1	243.6	218.5	197.0	189.9	179.1	150.5	125.4	107.5	125.4	132.5
72.5°	179.1	193.4	186.3	168.4	150.5	136.1	107.5	82.4	60.9	53.7	53.7
75°	132.5	143.3	150.5	129.0	114.6	96.7	78.8	53.7	32.2	21.5	21.5
77.5°	96.7	107.5	111.0	100.3	86.0	68.1	50.2	35.8	17.9	7.2	7.2
80°	82.4	96.7	107.5	100.3	89.6	64.5	46.6	25.1	14.3	3.6	3.6
82.5°	78.8	96.7	107.5	96.7	86.0	60.9	46.6	28.7	10.7	3.6	3.6
85°	17.9	25.1	32.2	39.4	46.6	46.6	35.8	21.5	10.7	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	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)