

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: P528349

Luminaire Tested: **GALN-SA3B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528349
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-SA3B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 8209 lumens
Efficiency: N/A
Efficacy: 67.8 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

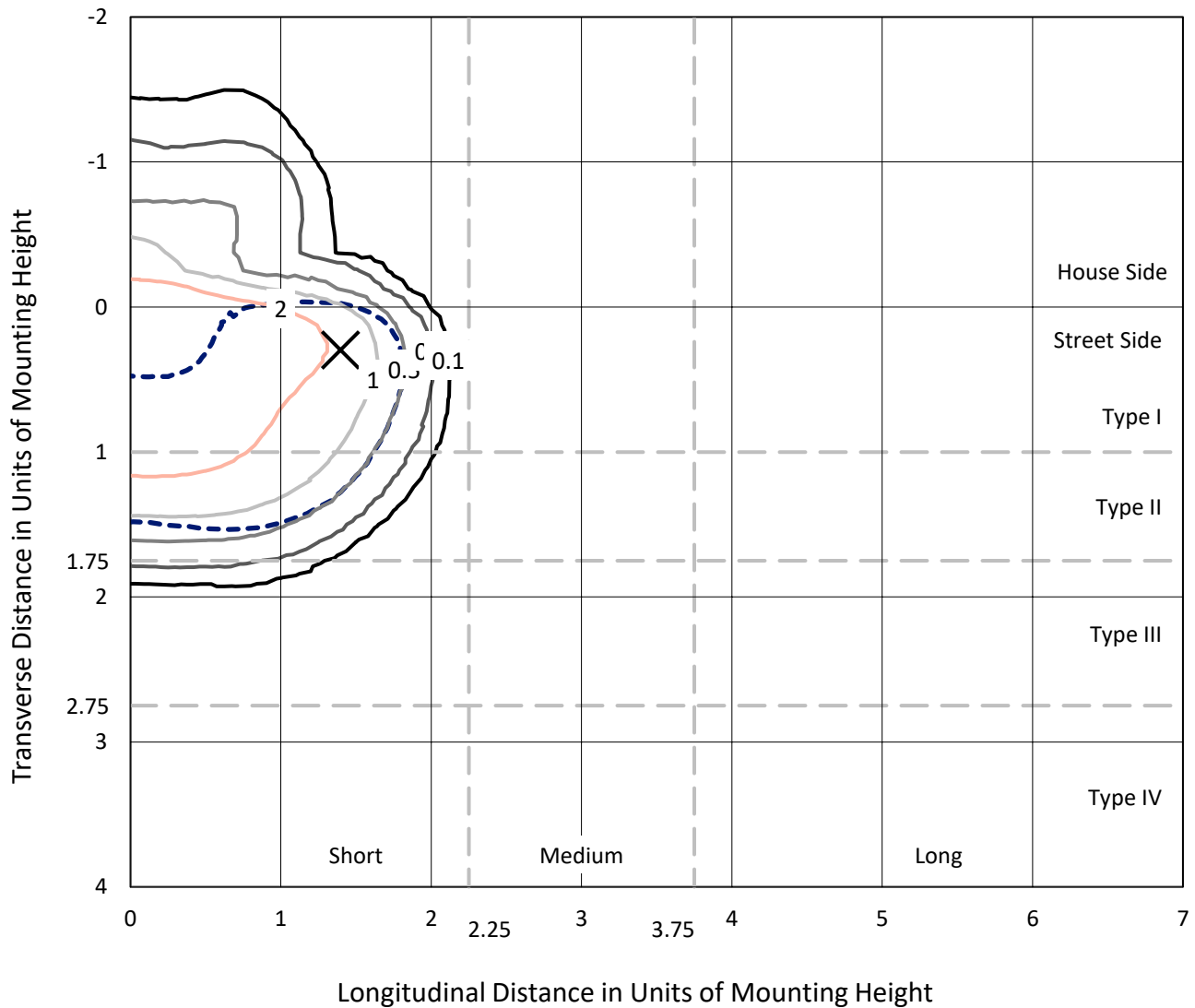


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

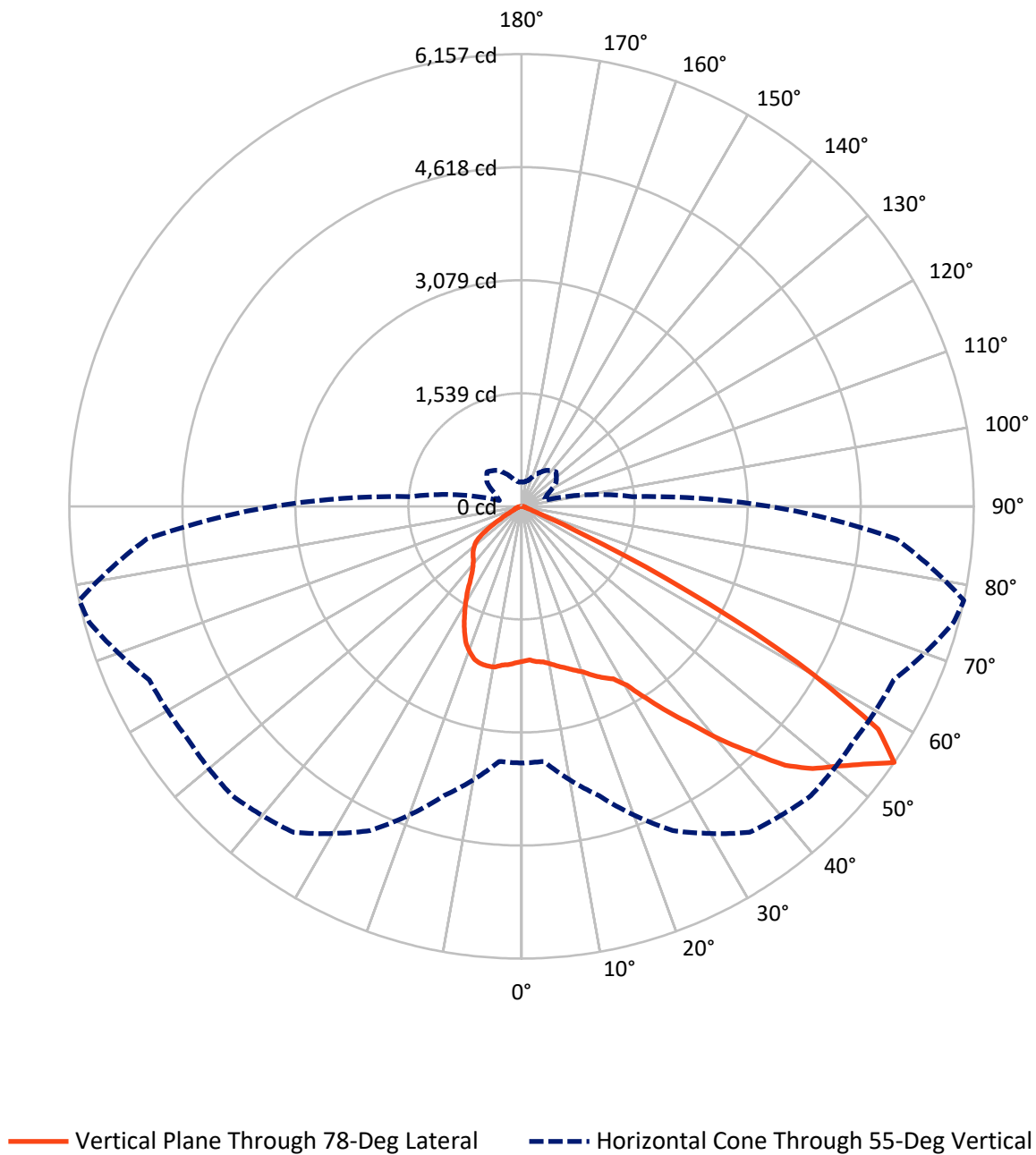


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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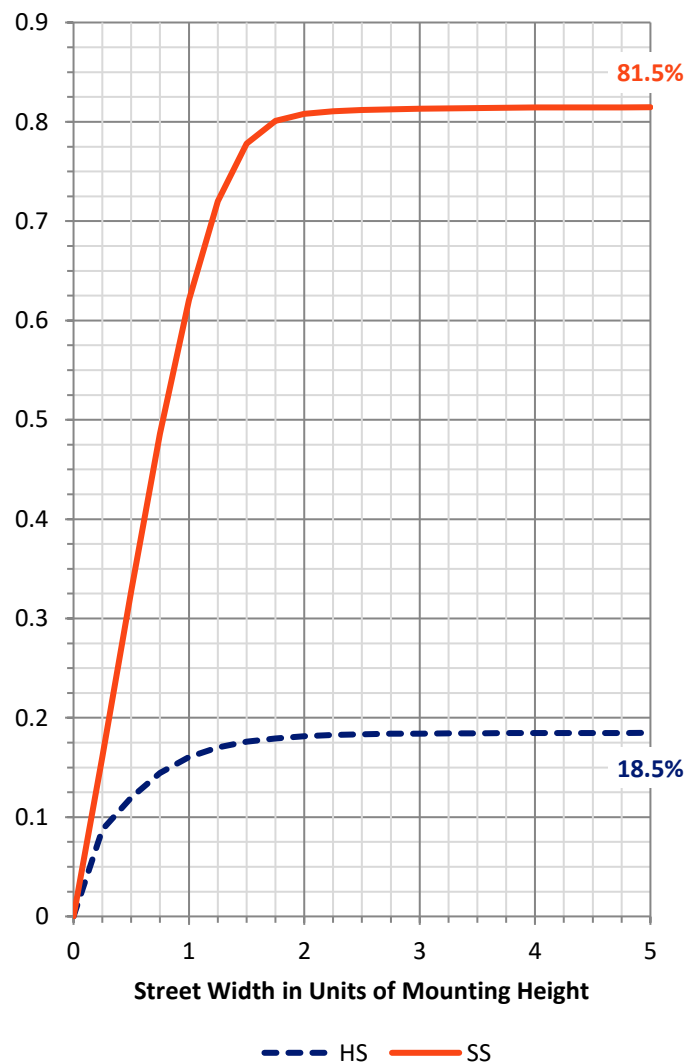
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1524.7	0.0	1524.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6684.3	0.0	6684.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	8209.0	0.0	8209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.3
10°-20°	498.1	6.1
20°-30°	873.0	10.6
30°-40°	1439.5	17.5
40°-50°	2094.6	25.5
50°-60°	2373.4	28.9
60°-70°	678.6	8.3
70°-80°	52.7	0.6
80°-90°	11.0	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°	8209.0	100.0
0°-180°	8209.0	100.0

Coefficient of Utilization



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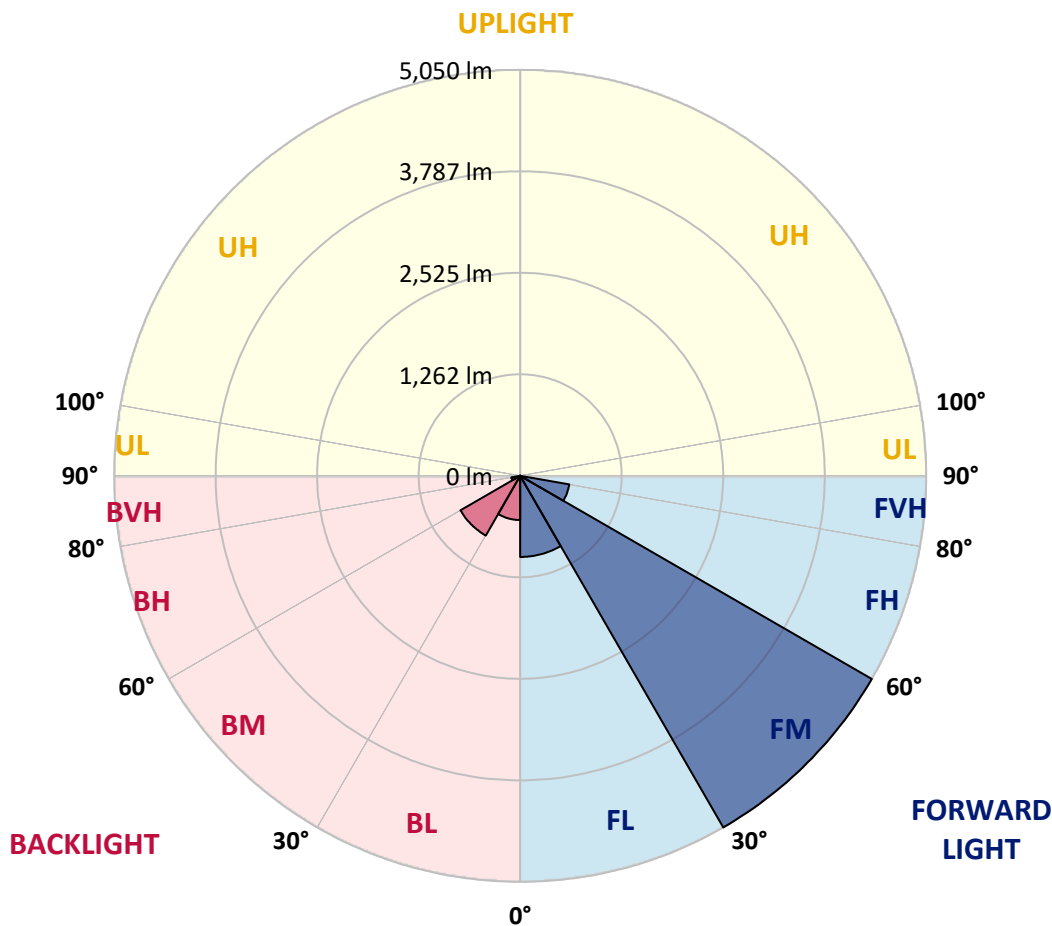
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1009.1	12.3			
FM	(30°-60°)	5049.8	61.5			
FH	(60°-80°)	620.0	7.6			G0/660
FVH	(80°-90°)	5.3	0.1			G0/10
BL	(0°-30°)	550.1	6.7	B2/1000		
BM	(30°-60°)	857.7	10.4	B1/1000		
BH	(60°-80°)	111.3	1.4	B1/500		G1/500
BVH	(80°-90°)	5.6	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°	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5
2.5°	1984.3	2003.4	2006.3	2029.8	2028.3	2068.0	2079.7	2081.2	2107.6	2094.4	2128.2
5°	1928.5	1918.3	1913.9	1955.0	1966.7	2001.9	2031.3	2048.9	2103.2	2122.3	2157.5
7.5°	1878.6	1878.6	1881.6	1918.3	1913.9	1959.4	1990.2	2044.5	2123.7	2139.9	2182.5
10°	1830.2	1812.6	1834.6	1872.8	1905.1	1925.6	1990.2	2041.6	2134.0	2181.0	2239.7
12.5°	1805.3	1814.1	1817.0	1844.9	1880.1	1941.8	1977.0	2062.1	2207.4	2235.3	2298.4
15°	1962.3	1944.7	1902.1	1877.2	1906.5	1935.9	2023.9	2110.5	2245.6	2285.2	2355.6
17.5°	2144.3	2129.6	2094.4	2026.9	1960.8	2015.1	2084.1	2163.4	2286.7	2345.4	2449.6
20°	2382.1	2358.6	2323.4	2191.3	2134.0	2075.3	2148.7	2242.6	2354.2	2407.0	2514.2
22.5°	2665.3	2665.3	2586.1	2426.1	2307.2	2251.4	2282.3	2336.6	2429.0	2500.9	2606.6
25°	2960.3	2951.5	2879.6	2713.8	2512.7	2446.6	2481.9	2520.0	2545.0	2584.6	2655.1
27.5°	3297.9	3246.5	3155.5	2972.1	2794.5	2666.8	2705.0	2671.2	2640.4	2660.9	2762.2
30°	3526.9	3559.1	3443.2	3267.1	3099.8	2957.4	2964.7	2935.4	2794.5	2823.8	2884.0
32.5°	3764.6	3785.2	3720.6	3623.7	3456.4	3290.6	3230.4	3205.4	3099.8	3113.0	3054.3
35°	3962.8	4002.4	3945.2	3902.6	3854.2	3720.6	3554.7	3635.5	3465.2	3432.9	3280.3
37.5°	4144.8	4133.0	4200.5	4156.5	4146.2	4052.3	3870.3	3886.4	3772.0	3764.6	3588.5
40°	4307.7	4310.6	4403.1	4423.6	4382.5	4215.2	3951.0	4078.7	4171.2	4180.0	3954.0
42.5°	4442.7	4482.3	4561.6	4727.4	4665.8	4386.9	4034.7	4174.1	4517.6	4571.9	4300.3
45°	4560.1	4640.8	4739.2	4887.4	4852.2	4630.6	4243.1	4370.8	4887.4	5029.8	4626.2
47.5°	4567.5	4673.1	4780.3	5000.4	5044.5	4761.2	4458.8	4681.9	5180.9	5335.1	4863.9
50°	4538.1	4593.9	4808.2	5047.4	5147.2	4974.0	4761.2	4943.2	5465.7	5562.5	4984.3
52.5°	4190.3	4232.8	4662.9	5091.4	5332.1	5214.7	5161.9	5307.2	5756.3	5828.2	5097.3
55°	3493.1	3485.8	4077.2	4869.8	5417.2	5571.4	5539.1	5590.4	6092.4	6157.0	5125.2
57.5°	2389.4	2523.0	3033.7	4055.2	4896.2	5487.7	5521.5	5436.3	5700.5	5725.5	4467.6
60°	1288.6	1344.4	1755.4	2706.4	3727.9	4472.1	4560.1	4406.0	4385.5	4315.0	3189.3
62.5°	512.2	540.1	773.5	1340.0	2031.3	2718.2	2907.5	2844.4	2709.4	2524.4	1651.2
65°	243.6	261.2	384.5	626.7	901.2	1133.1	1322.4	1381.1	1018.6	917.3	544.5
67.5°	165.8	179.1	280.3	358.1	321.4	336.1	437.4	406.6	239.2	204.0	151.2
70°	126.2	135.0	224.6	243.6	143.8	101.3	113.0	105.7	98.3	99.8	98.3
72.5°	89.5	96.9	164.4	143.8	63.1	47.0	60.2	71.9	71.9	71.9	70.4
75°	54.3	61.6	95.4	55.8	25.0	25.0	38.2	48.4	51.4	52.8	49.9
77.5°	27.9	35.2	32.3	16.1	16.1	19.1	27.9	33.8	36.7	36.7	35.2
80°	5.9	5.9	5.9	8.8	16.1	20.5	27.9	30.8	35.2	35.2	32.3
82.5°	0.0	1.5	4.4	8.8	14.7	19.1	26.4	30.8	35.2	36.7	33.8
85°	0.0	1.5	2.9	5.9	10.3	11.7	10.3	8.8	8.8	8.8	8.8
87.5°	0.0	0.0	1.5	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9
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°	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5	2110.5
2.5°	2131.1	2135.5	2128.2	2126.7	2120.8	2138.4	2095.9	2085.6	2112.0	2087.1	2092.9
5°	2159.0	2169.2	2156.0	2134.0	2101.7	2051.8	2009.3	1953.5	1927.1	1908.0	1905.1
7.5°	2179.5	2186.9	2173.6	2103.2	2006.3	1880.1	1786.2	1717.2	1662.9	1646.7	1620.3
10°	2263.2	2264.6	2198.6	2043.0	1853.7	1687.8	1544.0	1438.3	1384.0	1350.3	1335.6
12.5°	2319.0	2316.0	2182.5	1924.1	1671.7	1451.5	1287.2	1159.5	1109.6	1093.4	1083.2
15°	2389.4	2373.3	2144.3	1802.3	1436.9	1199.1	1050.9	962.8	958.4	948.1	958.4
17.5°	2445.2	2399.7	2088.5	1580.7	1212.3	987.8	890.9	896.8	908.5	918.8	920.2
20°	2536.2	2442.2	1960.8	1387.0	1003.9	846.9	845.4	871.8	901.2	912.9	924.6
22.5°	2605.2	2459.8	1824.3	1180.0	833.6	789.6	814.6	854.2	876.2	888.0	905.6
25°	2630.1	2411.4	1642.3	973.1	751.5	763.2	801.4	827.8	855.7	868.9	861.5
27.5°	2655.1	2386.5	1425.1	801.4	707.4	745.6	777.9	804.3	813.1	830.7	842.5
30°	2715.2	2299.9	1229.9	692.7	685.4	733.8	757.3	766.1	789.6	799.9	799.9
32.5°	2763.7	2266.1	1023.0	641.4	682.5	739.7	742.7	742.7	745.6	738.2	735.3
35°	2863.5	2150.2	838.1	610.6	681.0	741.2	748.5	723.6	656.1	629.6	622.3
37.5°	2986.7	2075.3	701.6	603.2	691.3	758.8	770.5	676.6	588.5	546.0	538.6
40°	3136.5	2022.5	612.0	600.3	714.8	799.9	764.7	639.9	525.4	463.8	460.9
42.5°	3311.1	1974.0	551.9	598.8	744.1	842.5	758.8	609.1	460.9	419.8	425.6
45°	3450.5	1947.6	510.8	588.5	754.4	867.4	763.2	554.8	434.4	408.0	411.0
47.5°	3559.1	1891.9	477.0	570.9	752.9	876.2	723.6	532.8	421.2	428.6	435.9
50°	3562.1	1817.0	434.4	532.8	730.9	860.1	678.1	512.2	418.3	449.1	463.8
52.5°	3522.5	1711.3	388.9	478.5	679.5	804.3	637.0	503.4	405.1	402.1	419.8
55°	3381.6	1513.2	312.6	387.5	573.9	663.4	600.3	487.3	365.5	331.7	334.6
57.5°	2732.8	1084.6	230.4	277.4	406.6	485.8	541.6	479.9	328.8	281.8	283.3
60°	1692.2	615.0	168.8	189.3	251.0	295.0	438.8	446.2	293.5	237.8	234.8
62.5°	868.9	303.8	130.6	133.6	154.1	173.2	300.9	374.3	265.7	226.0	226.0
65°	290.6	149.7	114.5	102.7	102.7	107.1	182.0	259.8	224.6	189.3	189.3
67.5°	124.8	111.5	99.8	89.5	82.2	77.8	102.7	151.2	167.3	143.8	138.0
70°	96.9	93.9	86.6	74.9	64.6	58.7	60.2	77.8	95.4	92.5	89.5
72.5°	71.9	71.9	69.0	58.7	49.9	42.6	39.6	41.1	45.5	47.0	48.4
75°	49.9	51.4	51.4	45.5	36.7	30.8	26.4	22.0	17.6	14.7	13.2
77.5°	33.8	35.2	38.2	33.8	27.9	20.5	16.1	11.7	7.3	2.9	2.9
80°	29.4	33.8	36.7	33.8	29.4	22.0	16.1	8.8	4.4	0.0	0.0
82.5°	30.8	33.8	38.2	32.3	27.9	20.5	16.1	10.3	4.4	1.5	0.0
85°	7.3	7.3	8.8	10.3	13.2	14.7	11.7	7.3	4.4	1.5	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	1.5	1.5	1.5	1.5	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)