

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: P531621

Luminaire Tested: **GALN-SA6D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531621
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-SA6D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 24109 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 368
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

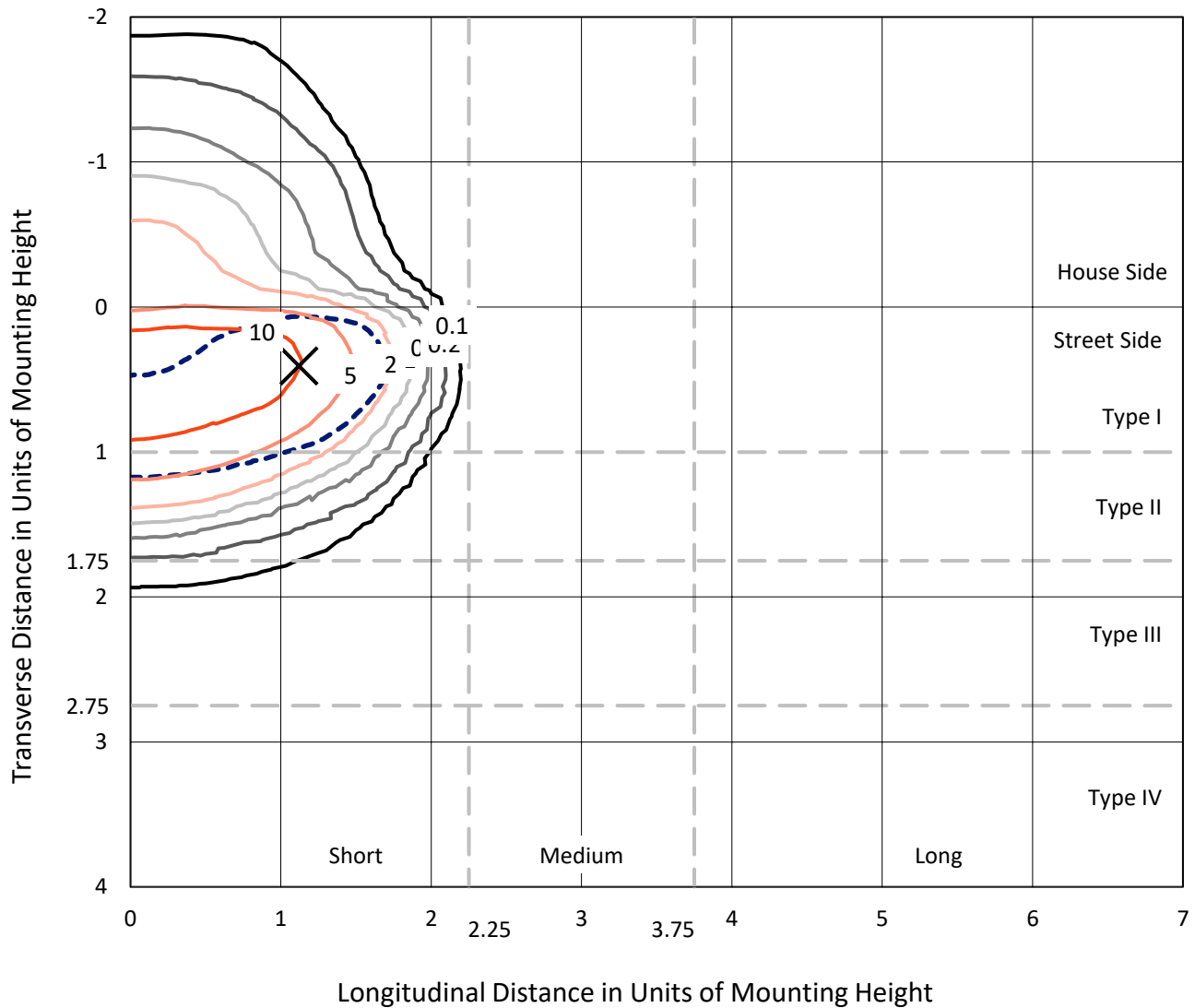


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

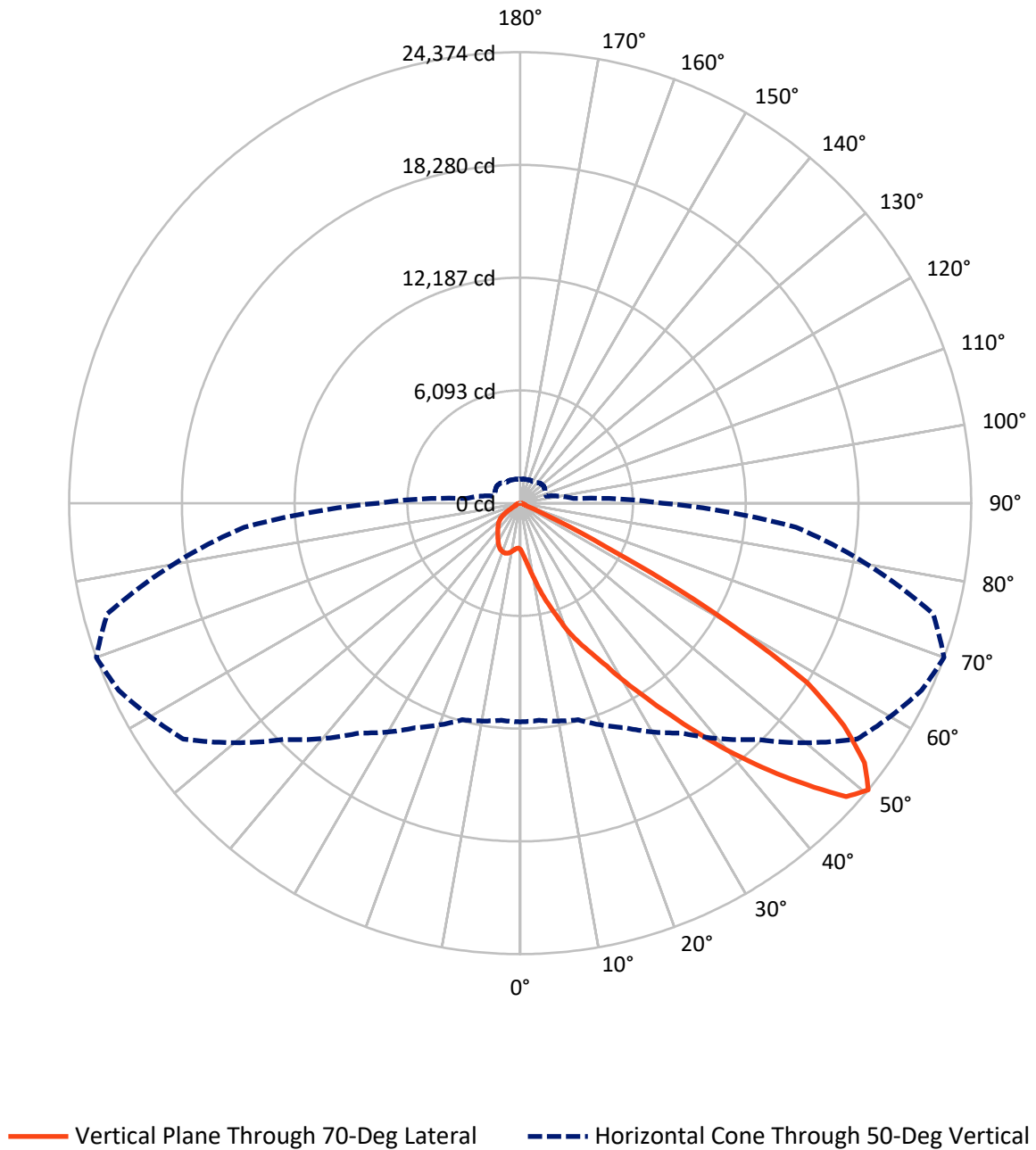


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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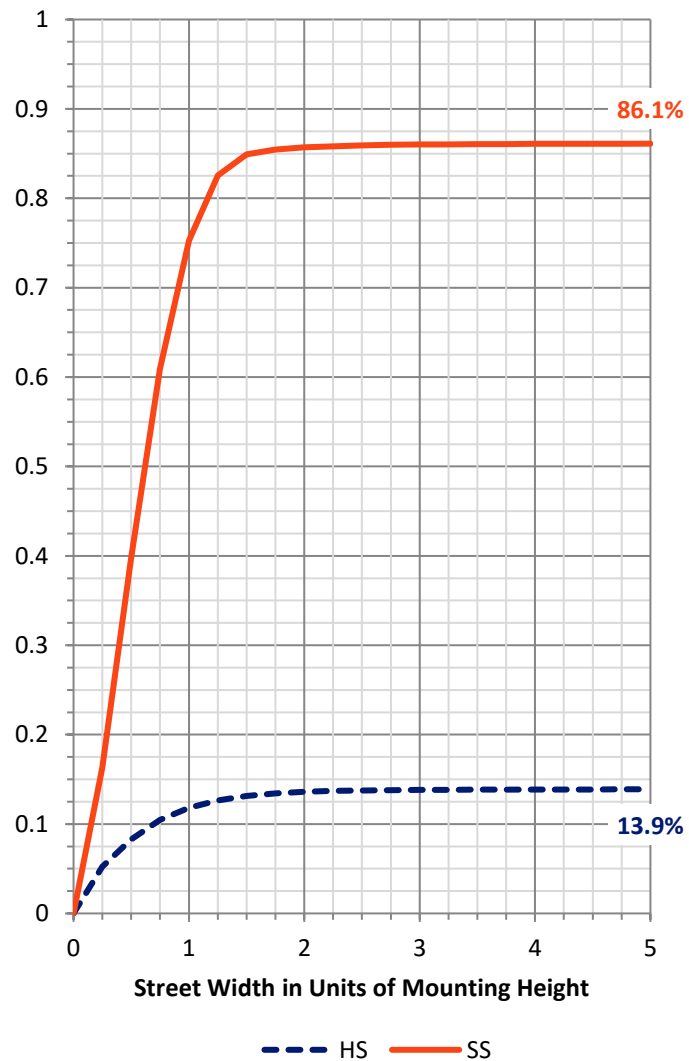
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.0	0.0	3367.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20742.0	0.0	20742.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	24109.0	0.0	24109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	1.3
10°-20°	1404.7	5.8
20°-30°	2946.7	12.2
30°-40°	5079.2	21.1
40°-50°	7423.2	30.8
50°-60°	5781.5	24.0
60°-70°	979.6	4.1
70°-80°	134.6	0.6
80°-90°	34.9	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°	24109.0	100.0
0°-180°	24109.0	100.0

Coefficient of Utilization



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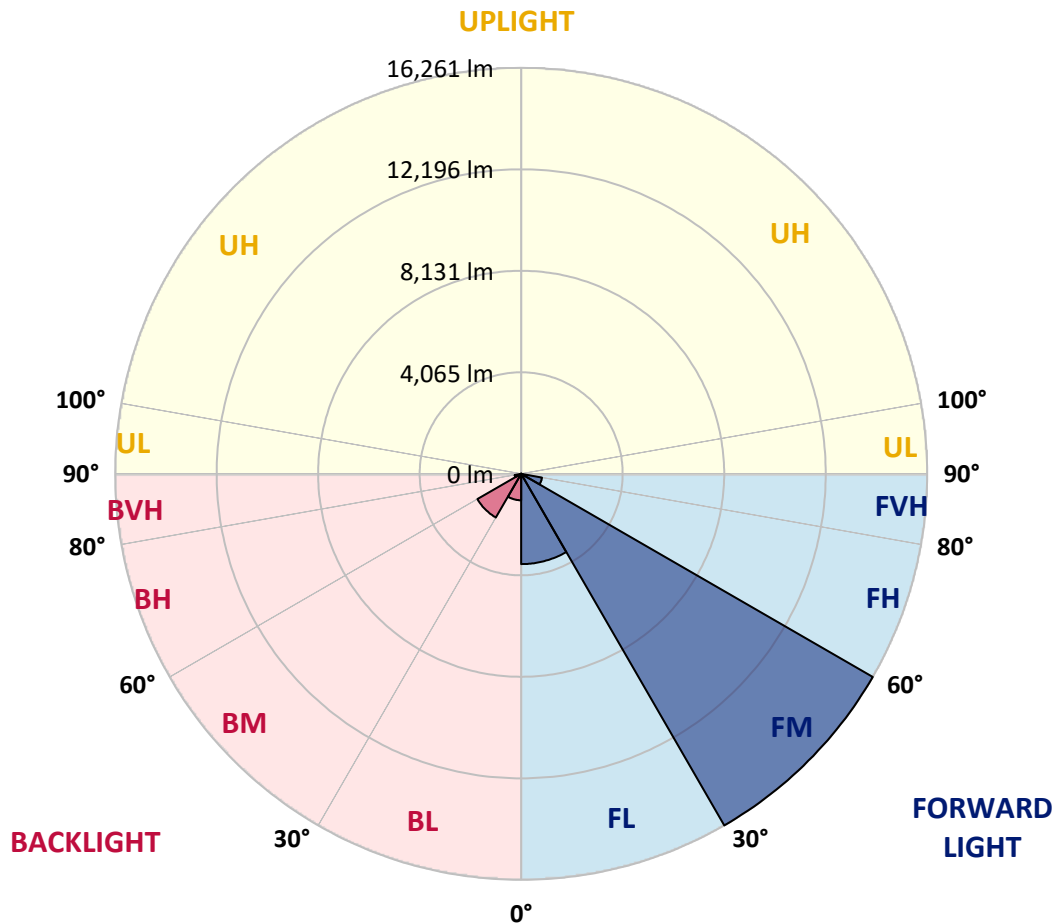
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3616.6	15.0			
FM	(30°-60°)	16261.1	67.4			
FH	(60°-80°)	848.2	3.5			G1/1800
FVH	(80°-90°)	16.1	0.1			G1/100
BL	(0°-30°)	1059.5	4.4	B3/2500		
BM	(30°-60°)	2022.8	8.4	B2/2500		
BH	(60°-80°)	266.0	1.1	B1/500		G1/500
BVH	(80°-90°)	18.7	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2
2.5°	3270.2	3246.4	3194.9	3099.7	3060.1	2965.0	2909.5	2802.4	2735.0	2659.7	2576.5
5°	4606.0	4483.1	4407.8	4300.8	3987.6	3793.4	3472.3	3198.8	3072.0	2933.2	2743.0
7.5°	5985.4	5906.1	5803.1	5573.2	5359.1	4954.8	4403.8	3801.3	3543.7	3305.8	2929.3
10°	7127.0	6905.0	6893.1	6722.7	6488.8	6005.2	5343.3	4594.1	4134.3	3785.5	3194.9
12.5°	7923.7	7721.6	7812.7	7792.9	7574.9	7130.9	6365.9	5375.0	4895.3	4352.3	3468.4
15°	8649.1	8565.9	8538.1	8514.3	8427.1	8098.1	7412.4	6326.3	5632.6	4978.6	3777.5
17.5°	9358.6	9144.6	9247.6	9267.5	9259.5	8962.2	8320.1	7230.0	6413.5	5640.5	4102.6
20°	9988.9	10008.7	9870.0	9842.2	9818.4	9806.5	9180.2	8125.9	7372.7	6334.2	4526.7
22.5°	10797.5	10658.8	10781.6	10702.4	10547.8	10452.6	9973.0	8918.6	8205.1	7170.6	4958.8
25°	11752.8	11863.8	11574.4	11542.7	11372.2	11043.3	10611.2	9806.5	9005.8	7947.5	5426.5
27.5°	12930.0	12735.8	12660.5	12486.1	12176.9	12038.2	11530.8	10722.2	9973.0	8764.0	5878.4
30°	13940.8	13889.3	13512.7	13306.6	13037.1	13033.1	12323.6	11962.9	11233.5	10044.4	6500.7
32.5°	14765.3	14539.4	14400.6	14257.9	14039.9	14099.4	13500.8	13310.6	12577.3	11233.5	7234.0
35°	15316.3	15153.8	15070.5	14852.5	14789.1	15054.7	14804.9	14725.7	14123.2	12906.3	8094.2
37.5°	15490.7	15542.2	15526.4	15252.8	15387.6	16105.1	16426.1	16220.0	15902.9	14670.2	9025.7
40°	15645.3	15680.9	15601.7	15922.7	16307.2	17123.8	18285.2	17944.3	17825.4	16457.9	10321.8
42.5°	15732.5	15704.7	15704.7	16259.7	16842.3	18483.4	20080.8	19854.9	19763.7	18360.5	11820.2
45°	15355.9	15086.4	15375.7	16128.9	17302.2	19153.3	21515.7	21828.9	21698.0	20623.8	13572.2
47.5°	13948.7	14115.2	14277.7	15284.6	16743.2	18947.1	22395.7	23462.0	23703.7	22526.5	14721.7
50°	11820.2	11784.5	12121.4	13389.8	15161.7	18059.2	22225.2	23933.7	24373.6	23097.3	14963.5
52.5°	8597.6	8859.2	9223.8	10484.4	12585.2	15760.2	20025.3	22716.8	23303.4	22395.7	14804.9
55°	5006.3	4717.0	5537.5	6603.8	8585.7	11887.5	16929.6	20136.3	21222.4	21119.3	14004.2
57.5°	2005.7	1942.3	2223.7	2996.7	4479.1	7368.8	12311.7	16545.1	18285.2	19343.5	12307.7
60°	880.0	860.2	1010.8	1220.9	1831.3	3397.0	6734.6	10290.1	12105.6	13516.7	8470.7
62.5°	634.2	626.3	701.6	776.9	967.2	1478.5	2830.2	4146.2	5168.8	6243.0	3793.4
65°	511.3	531.2	582.7	622.3	713.5	820.5	998.9	1153.5	1415.1	1466.6	836.4
67.5°	416.2	432.1	479.6	523.2	539.1	443.9	459.8	404.3	404.3	360.7	289.4
70°	305.2	309.2	364.7	416.2	333.0	178.4	313.1	313.1	281.4	269.5	245.8
72.5°	225.9	229.9	273.5	257.6	130.8	111.0	229.9	253.7	229.9	218.0	198.2
75°	166.5	170.4	142.7	59.5	55.5	71.3	134.8	174.4	166.5	162.5	150.6
77.5°	31.7	23.8	19.8	27.7	39.6	59.5	87.2	107.0	111.0	118.9	111.0
80°	4.0	4.0	11.9	23.8	43.6	63.4	91.2	103.1	107.0	111.0	103.1
82.5°	0.0	4.0	11.9	23.8	43.6	59.5	79.3	91.2	99.1	103.1	99.1
85°	0.0	4.0	7.9	19.8	35.7	43.6	39.6	27.7	23.8	27.7	19.8
87.5°	0.0	0.0	4.0	4.0	7.9	7.9	7.9	7.9	7.9	7.9	7.9
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°	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2	2497.2
2.5°	2528.9	2513.1	2457.6	2398.1	2346.6	2370.4	2346.6	2326.8	2334.7	2326.8	2318.8
5°	2667.7	2596.3	2477.4	2425.9	2382.3	2378.3	2366.4	2362.4	2366.4	2366.4	2330.7
7.5°	2798.5	2683.5	2556.7	2501.2	2449.7	2453.6	2425.9	2425.9	2421.9	2402.1	2394.2
10°	2996.7	2842.1	2679.6	2580.5	2517.0	2505.1	2477.4	2449.7	2449.7	2449.7	2410.0
12.5°	3214.7	3020.4	2798.5	2683.5	2608.2	2548.7	2505.1	2497.2	2453.6	2445.7	2425.9
15°	3404.9	3159.2	2877.7	2719.2	2624.1	2544.8	2477.4	2433.8	2414.0	2402.1	2386.2
17.5°	3591.2	3278.1	2921.3	2719.2	2616.1	2525.0	2453.6	2414.0	2366.4	2374.3	2342.6
20°	3841.0	3404.9	2933.2	2667.7	2540.8	2453.6	2358.5	2338.7	2310.9	2287.1	2295.1
22.5°	4082.8	3496.1	2897.6	2604.2	2421.9	2318.8	2271.3	2247.5	2235.6	2215.8	2188.0
25°	4300.8	3595.2	2842.1	2489.3	2295.1	2219.7	2176.1	2172.2	2144.4	2144.4	2092.9
27.5°	4522.7	3630.9	2746.9	2354.5	2184.1	2140.5	2120.7	2112.7	2100.8	2073.1	2037.4
30°	4776.4	3642.8	2608.2	2215.8	2085.0	2037.4	2065.2	2085.0	2033.4	1981.9	1997.8
32.5°	4986.5	3615.0	2441.7	2085.0	2013.6	1989.8	2045.3	2065.2	2005.7	1950.2	1922.5
35°	5240.2	3547.6	2279.2	1981.9	1942.3	1989.8	2037.4	2037.4	1918.5	1851.1	1835.3
37.5°	5624.7	3472.3	2128.6	1894.7	1867.0	1966.1	2029.5	1985.9	1799.6	1716.3	1696.5
40°	6036.9	3424.8	1981.9	1807.5	1827.3	1926.4	1962.1	1827.3	1637.1	1585.5	1569.7
42.5°	6635.5	3329.6	1851.1	1732.2	1791.7	1870.9	1870.9	1629.1	1557.8	1530.0	1526.1
45°	7380.7	3262.2	1736.2	1668.8	1740.1	1759.9	1696.5	1526.1	1474.5	1466.6	1470.6
47.5°	7745.3	3131.4	1617.2	1593.5	1645.0	1649.0	1482.5	1442.8	1399.2	1387.3	1379.4
50°	7689.8	2897.6	1462.7	1494.4	1565.7	1526.1	1351.7	1359.6	1320.0	1316.0	1296.2
52.5°	7301.4	2528.9	1308.1	1383.4	1462.7	1347.7	1244.6	1236.7	1236.7	1185.2	1165.4
55°	6472.9	2037.4	1121.8	1216.9	1312.0	1133.7	1105.9	1098.0	1078.2	1030.6	1018.7
57.5°	5125.2	1494.4	844.3	947.4	1113.8	963.2	959.2	923.6	872.0	836.4	836.4
60°	3048.2	860.2	531.2	578.7	737.3	780.9	868.1	852.2	765.0	709.5	693.7
62.5°	1391.3	443.9	336.9	344.9	396.4	507.4	681.8	788.8	665.9	570.8	562.9
65°	467.7	329.0	277.5	265.6	273.5	305.2	408.3	558.9	531.2	440.0	424.1
67.5°	285.4	293.3	261.6	241.8	241.8	237.8	233.9	253.7	313.1	305.2	309.2
70°	245.8	269.5	241.8	218.0	210.1	198.2	166.5	138.7	118.9	138.7	146.7
72.5°	198.2	214.0	206.1	186.3	166.5	150.6	118.9	91.2	67.4	59.5	59.5
75°	146.7	158.6	166.5	142.7	126.8	107.0	87.2	59.5	35.7	23.8	23.8
77.5°	107.0	118.9	122.9	111.0	95.1	75.3	55.5	39.6	19.8	7.9	7.9
80°	91.2	107.0	118.9	111.0	99.1	71.3	51.5	27.7	15.9	4.0	4.0
82.5°	87.2	107.0	118.9	107.0	95.1	67.4	51.5	31.7	11.9	4.0	4.0
85°	19.8	27.7	35.7	43.6	51.5	51.5	39.6	23.8	11.9	4.0	4.0
87.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	4.0	4.0	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)