

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: P533025

Luminaire Tested: **GALN-SA8B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533025
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-SA8B-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 24148 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 325
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

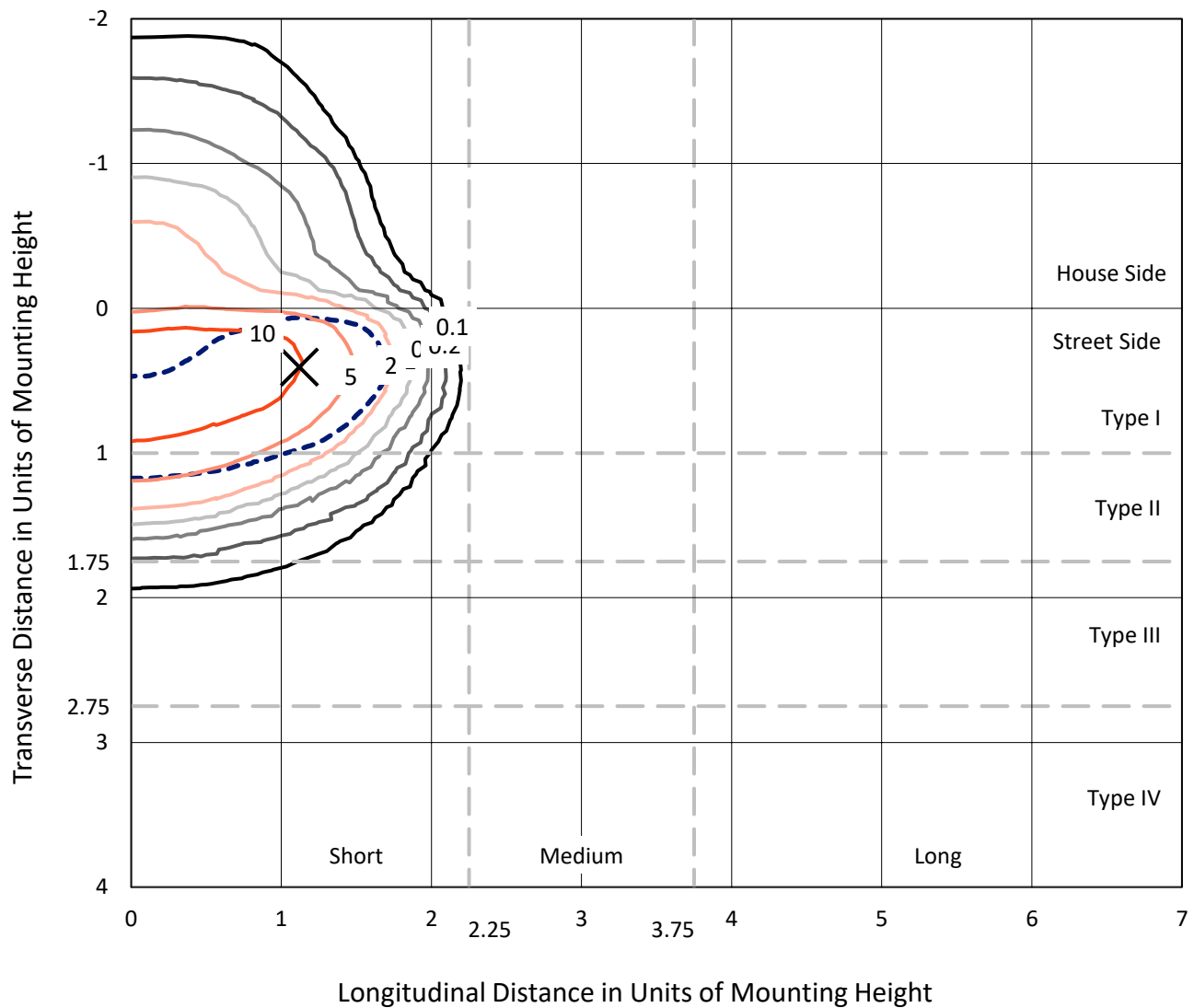


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

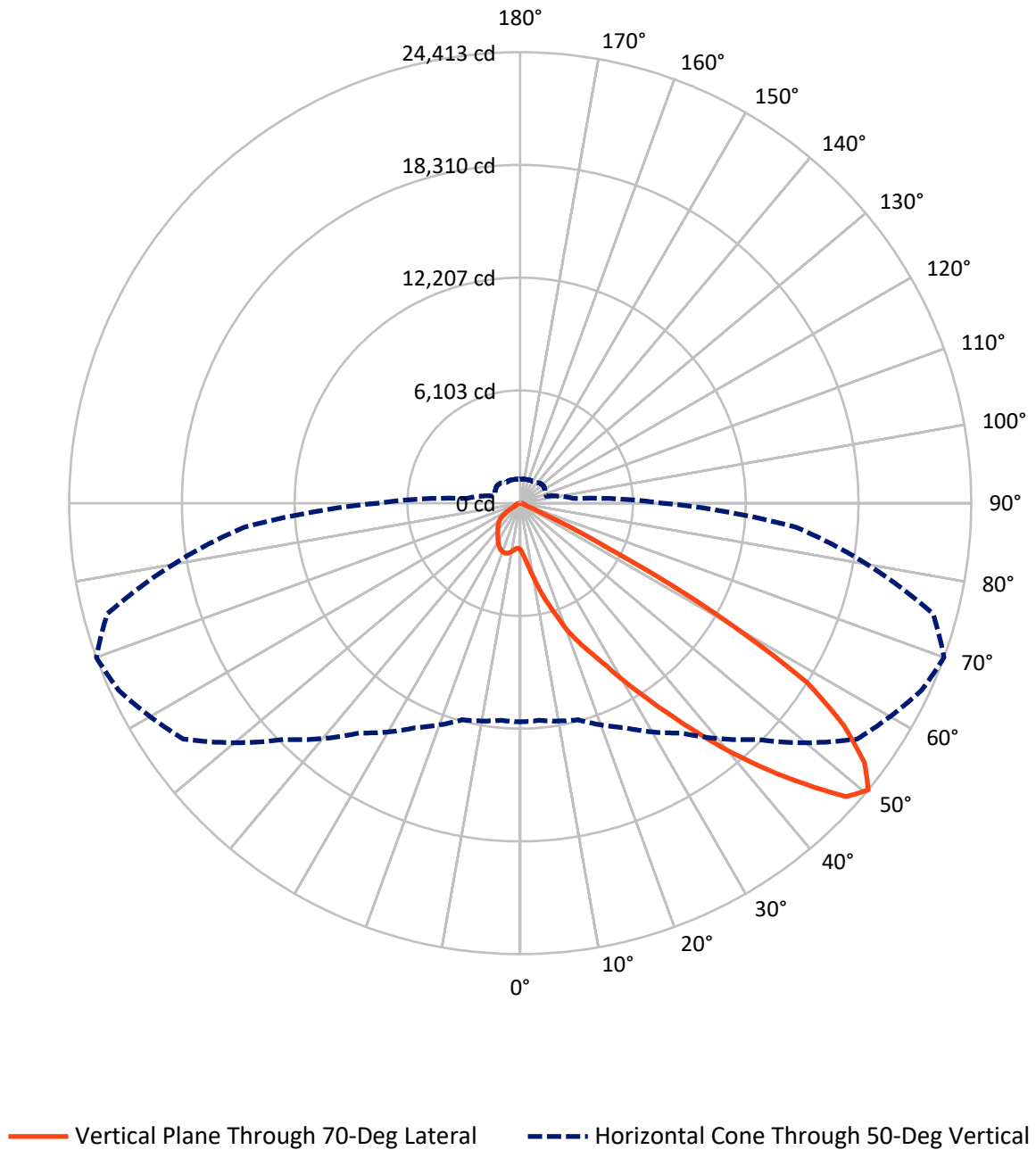


Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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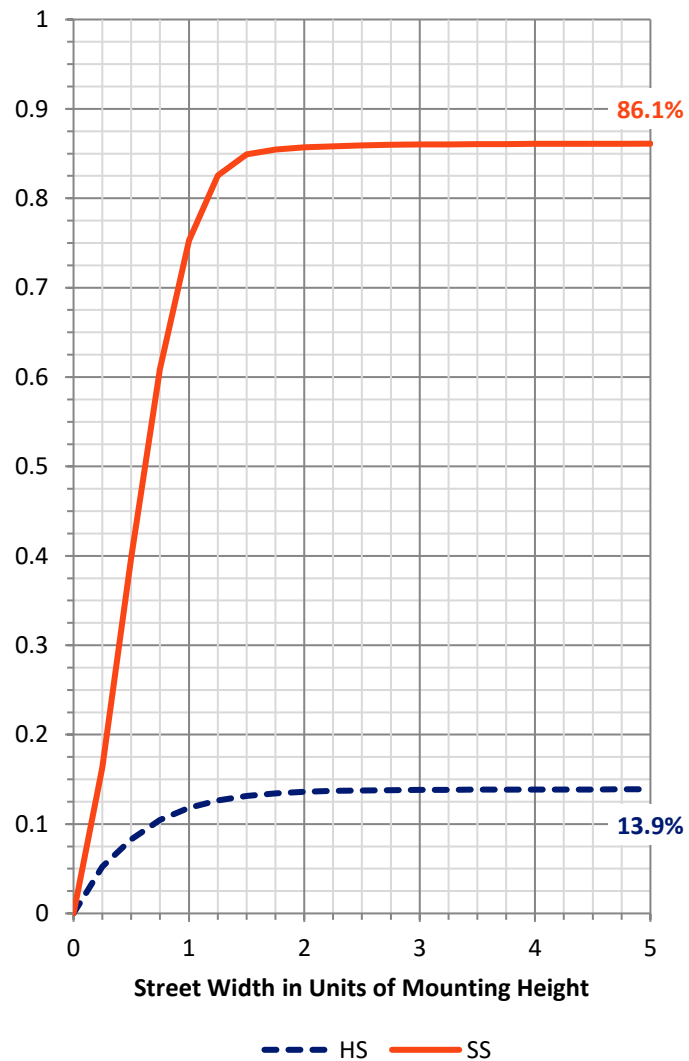
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3372.4	0.0	3372.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20775.6	0.0	20775.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	24148.0	0.0	24148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	1.3
10°-20°	1406.9	5.8
20°-30°	2951.5	12.2
30°-40°	5087.4	21.1
40°-50°	7435.2	30.8
50°-60°	5790.8	24.0
60°-70°	981.1	4.1
70°-80°	134.8	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°	24148.0	100.0
0°-180°	24148.0	100.0

Coefficient of Utilization



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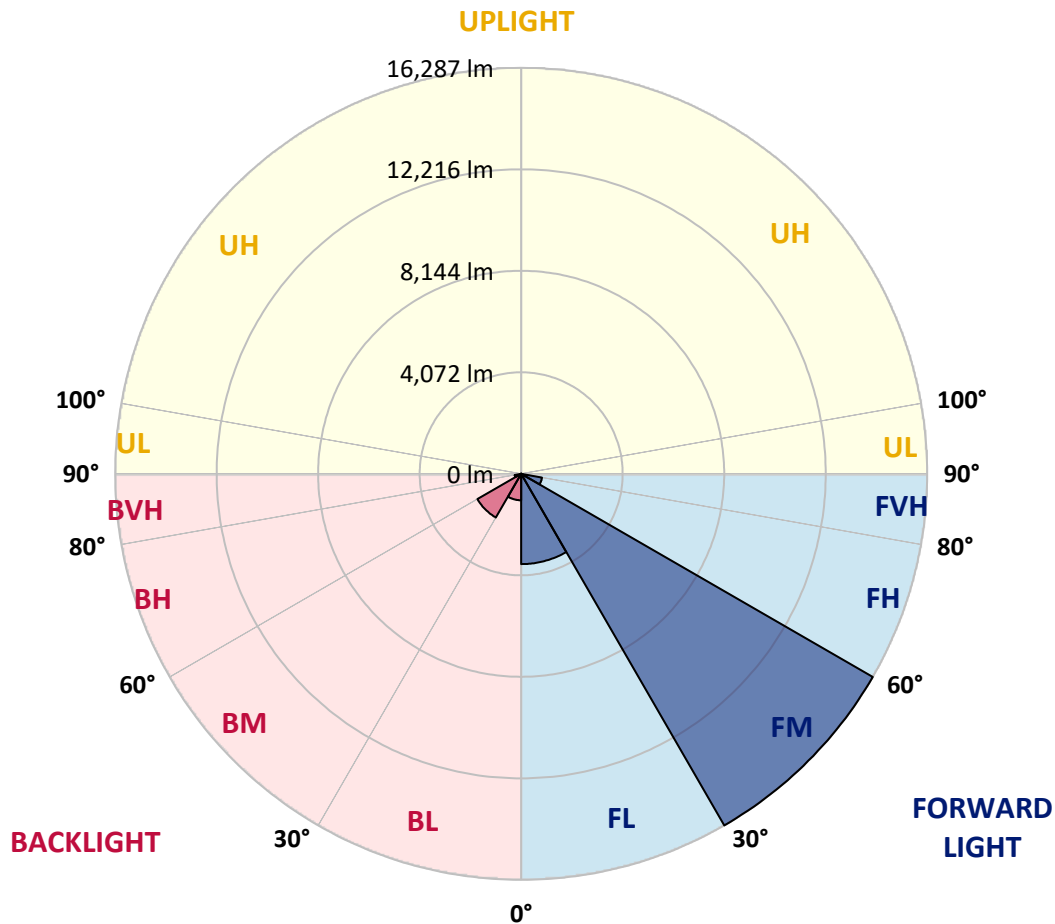
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3622.5	15.0			
FM	(30°-60°)	16287.4	67.4			
FH	(60°-80°)	849.5	3.5			G1/1800
FVH	(80°-90°)	16.1	0.1			G1/100
BL	(0°-30°)	1061.2	4.4	B3/2500		
BM	(30°-60°)	2026.0	8.4	B2/2500		
BH	(60°-80°)	266.4	1.1	B1/500		G1/500
BVH	(80°-90°)	18.8	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°	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3
2.5°	3275.5	3251.6	3200.0	3104.7	3065.0	2969.7	2914.2	2807.0	2739.5	2664.0	2580.7
5°	4613.4	4490.4	4414.9	4307.7	3994.1	3799.5	3477.9	3204.0	3076.9	2938.0	2747.4
7.5°	5995.1	5915.7	5812.4	5582.2	5367.8	4962.8	4410.9	3807.5	3549.4	3311.2	2934.0
10°	7138.5	6916.2	6904.3	6733.5	6499.3	6014.9	5351.9	4601.5	4141.0	3791.6	3200.0
12.5°	7936.5	7734.0	7825.4	7805.5	7587.1	7142.5	6376.2	5383.7	4903.3	4359.3	3474.0
15°	8663.1	8579.7	8551.9	8528.1	8440.8	8111.2	7424.4	6336.5	5641.7	4986.6	3783.6
17.5°	9373.8	9159.4	9262.6	9282.4	9274.5	8976.7	8333.6	7241.7	6423.9	5649.7	4109.2
20°	10005.0	10024.9	9885.9	9858.1	9834.3	9822.4	9195.1	8139.0	7384.7	6344.5	4534.0
22.5°	10815.0	10676.0	10799.1	10719.7	10564.8	10469.5	9989.1	8933.1	8218.4	7182.2	4966.8
25°	11771.8	11883.0	11593.1	11561.4	11390.6	11061.1	10628.4	9822.4	9020.4	7960.4	5435.3
27.5°	12951.0	12756.4	12681.0	12506.3	12196.6	12057.6	11549.5	10739.5	9989.1	8778.2	5887.9
30°	13963.4	13911.8	13534.6	13328.1	13058.2	13054.2	12343.5	11982.2	11251.7	10060.6	6511.2
32.5°	14789.2	14562.9	14423.9	14281.0	14062.6	14122.2	13522.7	13332.1	12597.6	11251.7	7245.7
35°	15341.0	15178.3	15094.9	14876.5	14813.0	15079.0	14828.9	14749.5	14146.0	12927.1	8107.2
37.5°	15515.7	15567.3	15551.5	15277.5	15412.5	16131.1	16452.7	16246.3	15928.6	14693.9	9040.3
40°	15670.6	15706.3	15626.9	15948.5	16333.6	17151.5	18314.8	17973.3	17854.2	16484.5	10338.5
42.5°	15757.9	15730.1	15730.1	16286.0	16869.6	18513.3	20113.3	19887.0	19795.7	18390.2	11839.3
45°	15380.7	15110.8	15400.6	16154.9	17330.1	19184.2	21550.5	21864.2	21733.1	20657.2	13594.1
47.5°	13971.3	14138.1	14300.8	15309.3	16770.3	18977.8	22431.9	23499.9	23742.1	22562.9	14745.5
50°	11839.3	11803.6	12141.0	13411.5	15186.2	18088.5	22261.2	23972.4	24413.1	23134.6	14987.7
52.5°	8611.5	8873.5	9238.8	10501.3	12605.5	15785.7	20057.7	22753.5	23341.1	22431.9	14828.9
55°	5014.4	4724.6	5546.4	6614.4	8599.6	11906.8	16956.9	20168.9	21256.7	21153.5	14026.9
57.5°	2008.9	1945.4	2227.3	3001.5	4486.4	7380.7	12331.6	16571.8	18314.8	19374.8	12327.6
60°	881.4	861.5	1012.4	1222.8	1834.3	3402.5	6745.5	10306.8	12125.1	13538.6	8484.4
62.5°	635.2	627.3	702.7	778.2	968.7	1480.9	2834.8	4152.9	5177.2	6253.1	3799.5
65°	512.2	532.0	583.6	623.3	714.6	821.8	1000.5	1155.3	1417.4	1469.0	837.7
67.5°	416.9	432.8	480.4	524.1	540.0	444.7	460.5	405.0	405.0	361.3	289.8
70°	305.7	309.7	365.3	416.9	333.5	178.7	313.6	313.6	281.9	270.0	246.2
72.5°	226.3	230.3	273.9	258.1	131.0	111.2	230.3	254.1	230.3	218.4	198.5
75°	166.8	170.7	142.9	59.6	55.6	71.5	135.0	174.7	166.8	162.8	150.9
77.5°	31.8	23.8	19.9	27.8	39.7	59.6	87.3	107.2	111.2	119.1	111.2
80°	4.0	4.0	11.9	23.8	43.7	63.5	91.3	103.2	107.2	111.2	103.2
82.5°	0.0	4.0	11.9	23.8	43.7	59.6	79.4	91.3	99.3	103.2	99.3
85°	0.0	4.0	7.9	19.9	35.7	43.7	39.7	27.8	23.8	27.8	19.9
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°	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3	2501.3
2.5°	2533.0	2517.1	2461.6	2402.0	2350.4	2374.2	2350.4	2330.5	2338.5	2330.5	2322.6
5°	2672.0	2600.5	2481.4	2429.8	2386.1	2382.1	2370.2	2366.3	2370.2	2370.2	2334.5
7.5°	2803.0	2687.9	2560.8	2505.2	2453.6	2457.6	2429.8	2429.8	2425.8	2406.0	2398.0
10°	3001.5	2846.7	2683.9	2584.6	2521.1	2509.2	2481.4	2453.6	2453.6	2453.6	2413.9
12.5°	3219.9	3025.3	2803.0	2687.9	2612.4	2552.9	2509.2	2501.3	2457.6	2449.6	2429.8
15°	3410.4	3164.3	2882.4	2723.6	2628.3	2548.9	2481.4	2437.7	2417.9	2406.0	2390.1
17.5°	3597.0	3283.4	2926.1	2723.6	2620.4	2529.0	2457.6	2417.9	2370.2	2378.2	2346.4
20°	3847.2	3410.4	2938.0	2672.0	2544.9	2457.6	2362.3	2342.4	2314.7	2290.8	2298.8
22.5°	4089.4	3501.8	2902.3	2608.5	2425.8	2322.6	2275.0	2251.1	2239.2	2219.4	2191.6
25°	4307.7	3601.0	2846.7	2493.3	2298.8	2223.3	2179.7	2175.7	2147.9	2147.9	2096.3
27.5°	4530.1	3636.7	2751.4	2358.3	2187.6	2143.9	2124.1	2116.1	2104.2	2076.4	2040.7
30°	4784.2	3648.7	2612.4	2219.4	2088.4	2040.7	2068.5	2088.4	2036.7	1985.1	2001.0
32.5°	4994.6	3620.9	2445.7	2088.4	2016.9	1993.1	2048.6	2068.5	2008.9	1953.4	1925.6
35°	5248.7	3553.4	2282.9	1985.1	1945.4	1993.1	2040.7	2040.7	1921.6	1854.1	1838.2
37.5°	5633.8	3477.9	2132.0	1897.8	1870.0	1969.2	2032.8	1989.1	1802.5	1719.1	1699.3
40°	6046.7	3430.3	1985.1	1810.4	1830.3	1929.5	1965.3	1830.3	1639.7	1588.1	1572.2
42.5°	6646.2	3335.0	1854.1	1735.0	1794.6	1874.0	1874.0	1631.8	1560.3	1532.5	1528.5
45°	7392.6	3267.5	1739.0	1671.5	1742.9	1762.8	1699.3	1528.5	1476.9	1469.0	1473.0
47.5°	7757.9	3136.5	1619.9	1596.0	1647.7	1651.6	1484.9	1445.2	1401.5	1389.6	1381.6
50°	7702.3	2902.3	1465.0	1496.8	1568.2	1528.5	1353.9	1361.8	1322.1	1318.1	1298.3
52.5°	7313.2	2533.0	1310.2	1385.6	1465.0	1349.9	1246.7	1238.7	1238.7	1187.1	1167.3
55°	6483.4	2040.7	1123.6	1218.9	1314.2	1135.5	1107.7	1099.8	1079.9	1032.3	1020.4
57.5°	5133.5	1496.8	845.7	948.9	1115.6	964.8	960.8	925.1	873.5	837.7	837.7
60°	3053.1	861.5	532.0	579.7	738.5	782.1	869.5	853.6	766.3	710.7	694.8
62.5°	1393.6	444.7	337.5	345.4	397.0	508.2	682.9	790.1	667.0	571.7	563.8
65°	468.5	329.5	277.9	266.0	273.9	305.7	408.9	559.8	532.0	440.7	424.8
67.5°	285.9	293.8	262.0	242.2	242.2	238.2	234.2	254.1	313.6	305.7	309.7
70°	246.2	270.0	242.2	218.4	210.4	198.5	166.8	139.0	119.1	139.0	146.9
72.5°	198.5	214.4	206.5	186.6	166.8	150.9	119.1	91.3	67.5	59.6	59.6
75°	146.9	158.8	166.8	142.9	127.0	107.2	87.3	59.6	35.7	23.8	23.8
77.5°	107.2	119.1	123.1	111.2	95.3	75.4	55.6	39.7	19.9	7.9	7.9
80°	91.3	107.2	119.1	111.2	99.3	71.5	51.6	27.8	15.9	4.0	4.0
82.5°	87.3	107.2	119.1	107.2	95.3	67.5	51.6	31.8	11.9	4.0	4.0
85°	19.9	27.8	35.7	43.7	51.6	51.6	39.7	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)