

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: P527395

Luminaire Tested: **GALN-SA2B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6783 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 82
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

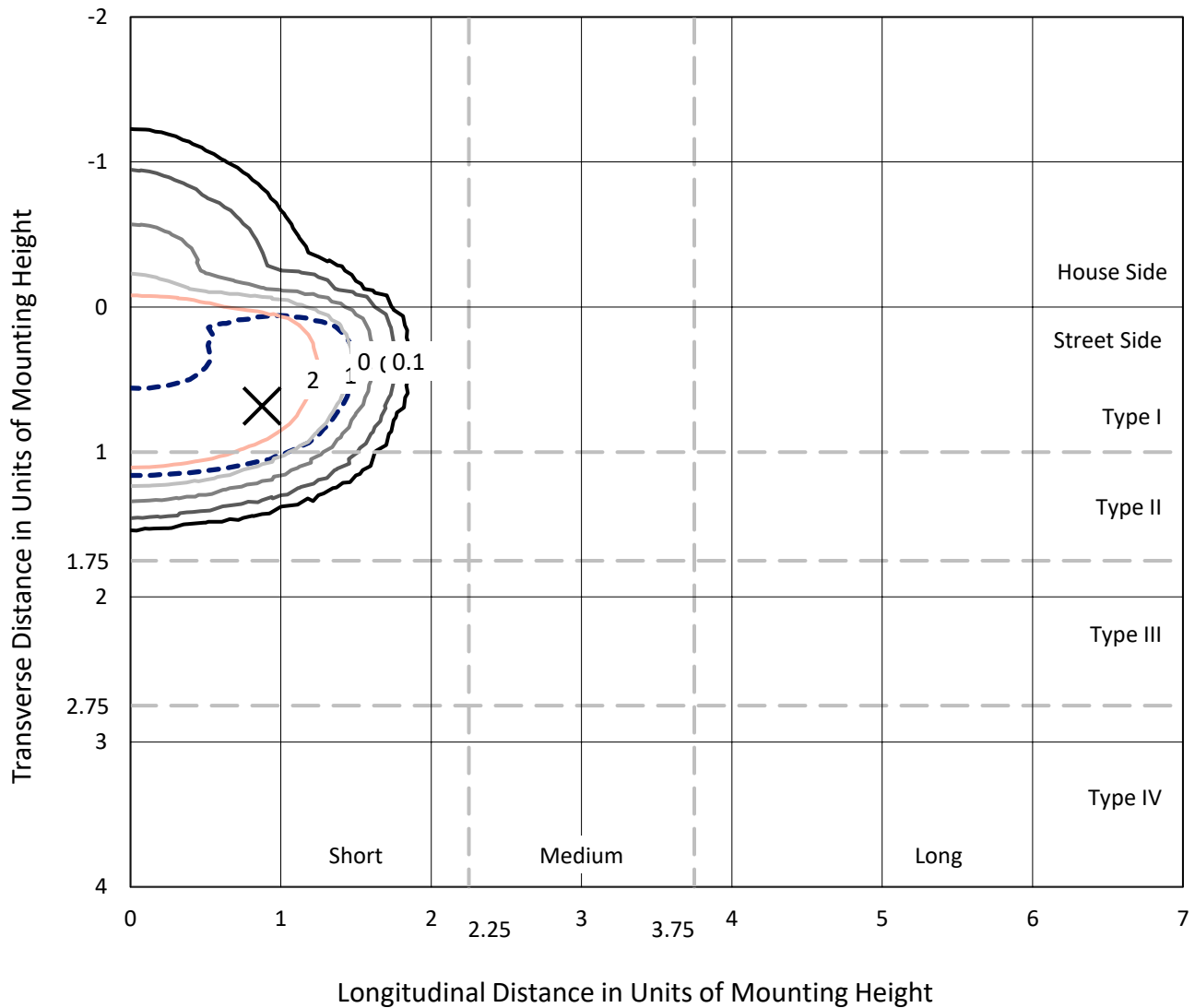


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

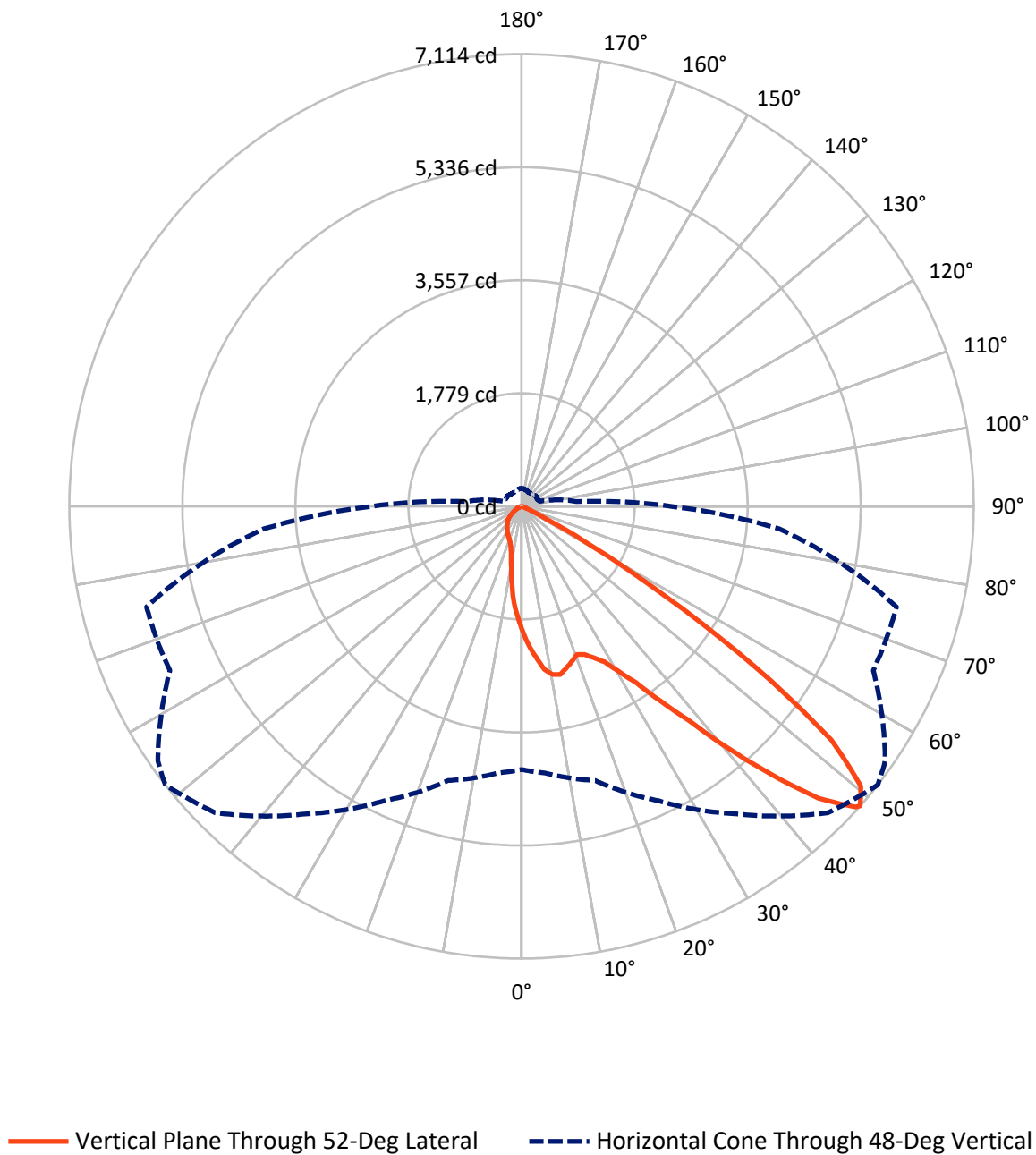


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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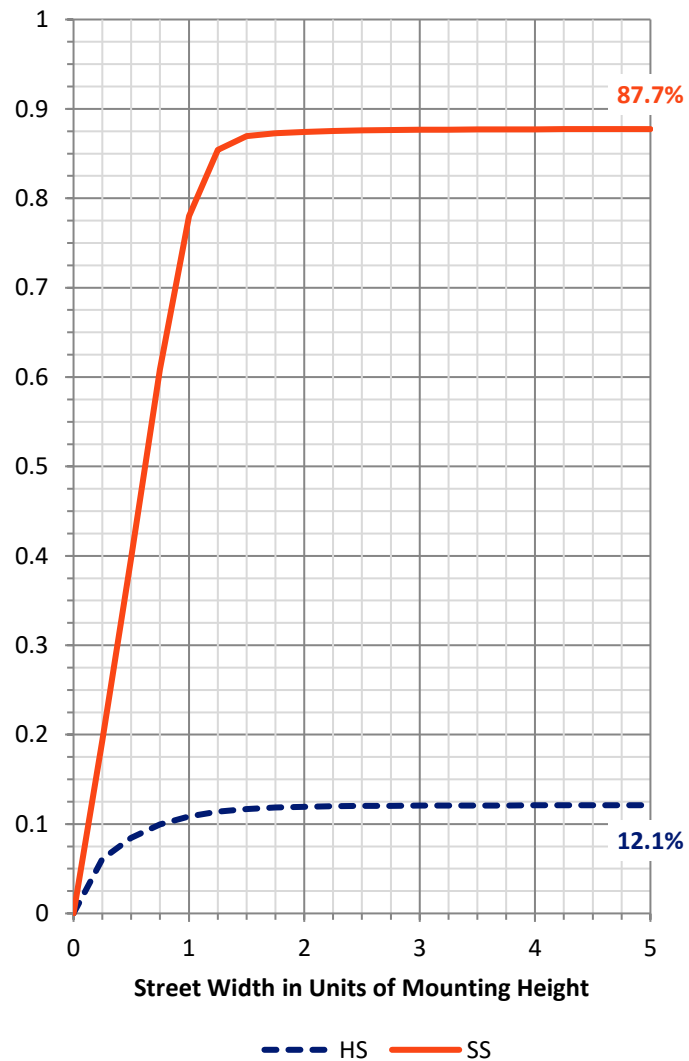
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.9	0.0	825.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5957.1	0.0	5957.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	6783.0	0.0	6783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	2.6
10°-20°	468.5	6.9
20°-30°	800.0	11.8
30°-40°	1473.2	21.7
40°-50°	2287.9	33.7
50°-60°	1376.9	20.3
60°-70°	159.2	2.3
70°-80°	30.8	0.5
80°-90°	7.1	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°	6783.0	100.0
0°-180°	6783.0	100.0

Coefficient of Utilization



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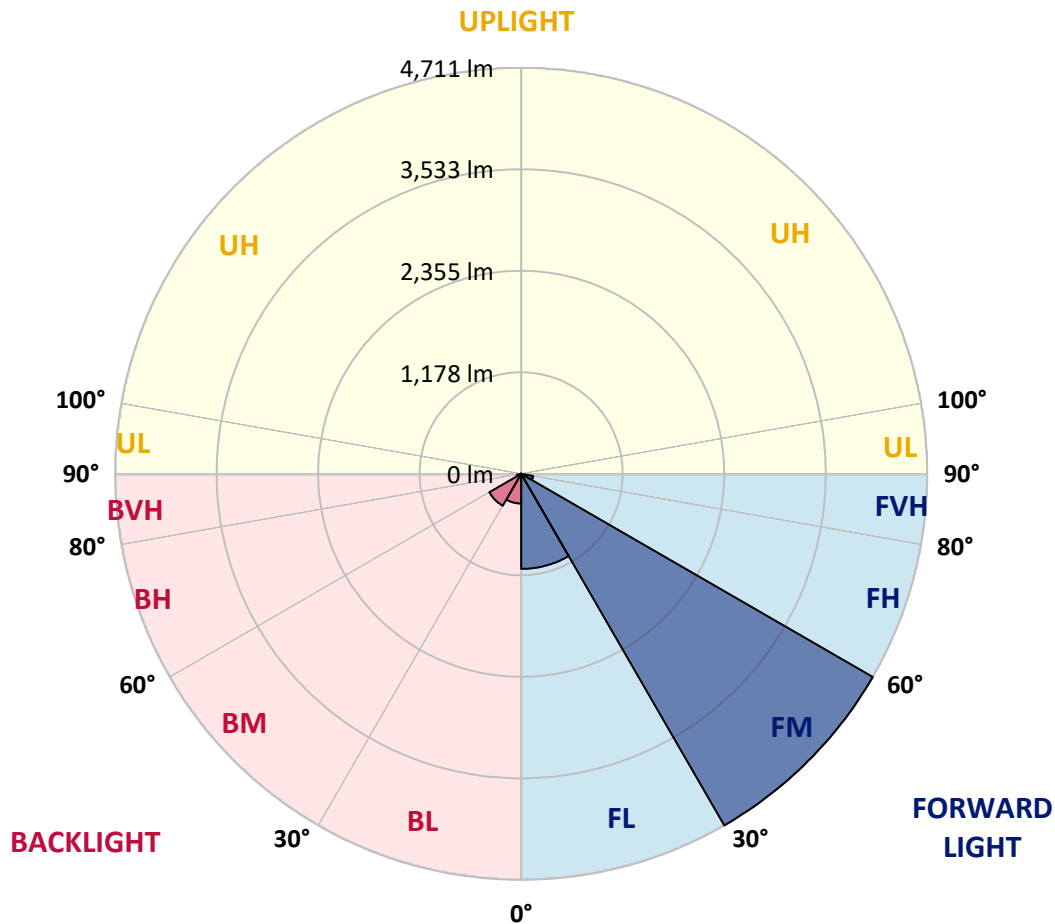
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.8	16.3			
FM	(30°-60°)	4710.7	69.4			
FH	(60°-80°)	140.2	2.1			G0/660
FVH	(80°-90°)	3.4	0.1			G0/10
BL	(0°-30°)	345.0	5.1	B1/500		
BM	(30°-60°)	427.3	6.3	B1/1000		
BH	(60°-80°)	49.8	0.7	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8
2.5°	2374.1	2319.7	2324.7	2289.1	2268.3	2234.7	2189.2	2180.3	2130.9	2063.6	1995.4
5°	2587.7	2574.8	2591.7	2540.2	2542.2	2486.8	2380.0	2382.0	2268.3	2158.6	2052.8
7.5°	2601.5	2571.9	2588.7	2634.2	2660.9	2651.0	2590.7	2538.3	2430.5	2269.3	2115.0
10°	2329.6	2386.0	2403.8	2478.9	2585.7	2698.4	2691.5	2694.5	2604.5	2393.9	2168.4
12.5°	2166.5	2128.9	2189.2	2234.7	2395.9	2614.4	2714.3	2736.0	2742.9	2514.5	2221.8
15°	2092.3	2092.3	2102.2	2115.0	2231.7	2433.4	2637.1	2700.4	2849.7	2672.7	2305.9
17.5°	2138.8	2136.8	2150.6	2123.9	2167.5	2322.7	2565.9	2638.1	2969.4	2828.0	2372.1
20°	2280.2	2287.1	2278.2	2201.1	2204.0	2320.7	2486.8	2600.6	3050.5	2962.5	2460.1
22.5°	2477.0	2480.9	2430.5	2346.4	2321.7	2379.1	2532.3	2619.3	3115.7	3123.6	2486.8
25°	2704.4	2688.6	2678.7	2560.0	2484.9	2534.3	2635.2	2685.6	3156.3	3262.1	2563.0
27.5°	3019.8	2988.2	2927.8	2822.0	2766.7	2696.5	2768.6	2851.7	3271.9	3455.9	2646.0
30°	3485.5	3457.8	3340.2	3203.7	3058.4	2989.1	3011.9	3057.4	3480.6	3680.3	2755.8
32.5°	4186.6	4128.3	3958.2	3698.1	3500.4	3309.5	3303.6	3352.0	3667.5	3990.8	2886.3
35°	4958.8	4941.0	4690.9	4422.9	4040.2	3745.6	3750.5	3776.2	4025.4	4398.2	3057.4
37.5°	5472.0	5569.9	5410.7	5123.0	4801.6	4380.4	4273.6	4282.5	4516.8	4880.7	3365.9
40°	5868.5	5785.5	5804.3	5737.0	5517.5	5230.8	4994.4	4948.0	5085.4	5414.7	3672.4
42.5°	5695.5	5699.5	5815.1	5974.3	6028.7	6008.0	5766.7	5678.7	5571.9	5851.7	3964.1
45°	5207.0	5308.9	5459.2	5880.4	6250.2	6597.3	6549.8	6403.5	5908.1	6197.8	4132.2
47.5°	4427.9	4423.9	4670.1	5217.9	6039.6	6852.4	7068.0	6965.1	6146.4	6159.3	4097.6
48°	4140.1	4211.3	4465.4	5110.1	5906.1	6814.8	7114.4	6984.9	6105.9	6107.8	4067.9
50°	3060.3	3047.5	3363.9	4154.9	5275.3	6403.5	6918.7	7019.5	6104.9	5847.8	3860.3
52.5°	1616.7	1672.1	1902.5	2612.4	3729.8	5240.7	6102.9	6260.1	5889.3	5422.6	3561.7
55°	687.2	621.0	798.0	1179.6	2098.2	3501.3	4477.3	4827.3	4979.6	4798.7	3115.7
57.5°	245.2	268.0	308.5	444.0	882.0	1916.3	2669.8	2941.7	3449.9	3521.1	2123.0
60°	157.2	160.2	173.0	203.7	331.2	738.6	1266.7	1483.2	1713.6	1769.0	990.8
62.5°	121.6	122.6	128.5	133.5	157.2	286.8	475.6	563.6	585.4	503.3	260.1
65°	101.8	102.8	104.8	104.8	111.7	134.5	166.1	182.9	178.0	176.0	147.3
67.5°	78.1	80.1	84.0	84.0	88.0	82.1	92.0	97.9	110.7	134.5	125.6
70°	61.3	62.3	65.3	67.2	67.2	59.3	66.2	72.2	81.1	99.9	98.9
72.5°	47.5	49.4	51.4	51.4	48.5	40.5	47.5	52.4	58.3	69.2	67.2
75°	36.6	36.6	37.6	30.7	23.7	20.8	28.7	34.6	43.5	45.5	37.6
77.5°	9.9	10.9	9.9	8.9	9.9	14.8	18.8	21.8	27.7	27.7	24.7
80°	0.0	1.0	3.0	5.9	9.9	13.8	16.8	18.8	21.8	23.7	22.7
82.5°	0.0	1.0	3.0	5.9	8.9	10.9	14.8	15.8	17.8	20.8	20.8
85°	0.0	1.0	2.0	4.0	5.9	6.9	6.9	5.9	5.9	4.9	4.0
87.5°	0.0	0.0	1.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0
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°	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8
2.5°	1968.7	1938.1	1891.6	1818.4	1748.2	1702.7	1659.2	1610.8	1584.1	1582.1	1567.3
5°	1992.4	1923.2	1812.5	1686.9	1552.4	1436.7	1320.1	1243.9	1175.7	1138.1	1131.2
7.5°	2005.3	1915.3	1736.3	1525.7	1296.3	1107.5	976.9	881.0	843.4	815.8	814.8
10°	2032.0	1901.5	1622.6	1312.1	1028.4	837.5	747.5	704.0	683.3	675.4	663.5
12.5°	2051.8	1875.8	1505.9	1092.6	812.8	694.1	654.6	644.7	645.7	649.6	644.7
15°	2079.5	1853.0	1348.7	896.8	682.3	624.9	624.9	626.9	640.7	642.7	641.7
17.5°	2077.5	1808.5	1186.6	738.6	603.2	595.3	598.2	617.0	625.9	628.9	622.0
20°	2101.2	1767.0	1019.5	630.9	558.7	570.5	590.3	595.3	606.1	608.1	600.2
22.5°	2094.3	1663.2	864.2	545.8	525.1	547.8	567.6	573.5	570.5	564.6	563.6
25°	2081.4	1574.2	721.8	489.5	500.3	525.1	543.8	533.0	527.0	528.0	529.0
27.5°	2058.7	1461.5	604.2	449.9	466.7	503.3	502.3	498.4	504.3	499.3	504.3
30°	2054.7	1348.7	507.3	414.3	442.0	468.7	470.7	477.6	484.5	475.6	484.5
32.5°	2060.7	1225.1	438.0	392.6	427.2	428.2	449.9	456.8	451.9	432.1	434.1
35°	2106.1	1130.2	387.6	380.7	403.4	404.4	425.2	416.3	394.5	382.7	389.6
37.5°	2202.1	1051.1	363.9	369.8	371.8	384.6	385.6	367.8	369.8	368.8	372.8
40°	2324.7	990.8	347.1	359.9	357.9	366.8	331.2	341.1	350.0	353.0	355.0
42.5°	2408.7	947.3	336.2	344.1	340.1	324.3	304.6	314.4	321.4	332.2	334.2
45°	2446.3	912.7	323.3	316.4	316.4	287.7	279.8	281.8	297.6	309.5	307.5
47.5°	2385.0	879.0	300.6	279.8	286.8	263.0	254.1	254.1	270.9	285.8	282.8
48°	2361.3	865.2	301.6	271.9	276.9	259.1	250.2	248.2	267.0	280.8	280.8
50°	2243.6	813.8	275.9	250.2	240.3	238.3	232.4	234.3	246.2	259.1	259.1
52.5°	2014.2	703.0	233.4	214.6	196.8	208.6	211.6	207.6	213.6	225.4	224.5
55°	1681.0	539.9	186.9	178.0	164.1	177.0	182.9	178.0	172.1	181.0	181.0
57.5°	1076.8	290.7	149.3	151.3	137.4	150.3	155.2	143.4	132.5	139.4	138.4
60°	485.5	174.0	122.6	119.6	110.7	125.6	133.5	119.6	104.8	109.8	114.7
62.5°	181.9	123.6	92.9	91.0	89.0	102.8	106.8	95.9	81.1	84.0	85.0
65°	133.5	108.8	74.2	67.2	71.2	81.1	79.1	68.2	58.3	58.3	60.3
67.5°	113.7	94.9	60.3	52.4	52.4	53.4	49.4	43.5	40.5	42.5	44.5
70°	89.0	75.1	47.5	40.5	36.6	32.6	28.7	27.7	24.7	27.7	26.7
72.5°	57.4	50.4	36.6	30.7	27.7	22.7	18.8	17.8	14.8	13.8	13.8
75°	30.7	30.7	28.7	24.7	21.8	17.8	14.8	11.9	7.9	5.9	5.9
77.5°	21.8	23.7	25.7	23.7	19.8	14.8	11.9	7.9	4.0	2.0	2.0
80°	20.8	23.7	25.7	22.7	19.8	14.8	10.9	5.9	3.0	1.0	1.0
82.5°	18.8	21.8	23.7	20.8	17.8	12.9	9.9	5.9	3.0	1.0	1.0
85°	4.0	4.9	5.9	5.9	6.9	8.9	6.9	4.9	2.0	1.0	1.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0
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)