

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: P527643

Luminaire Tested: **GALN-SA2C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527643
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-SA2C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 7431 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 108
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

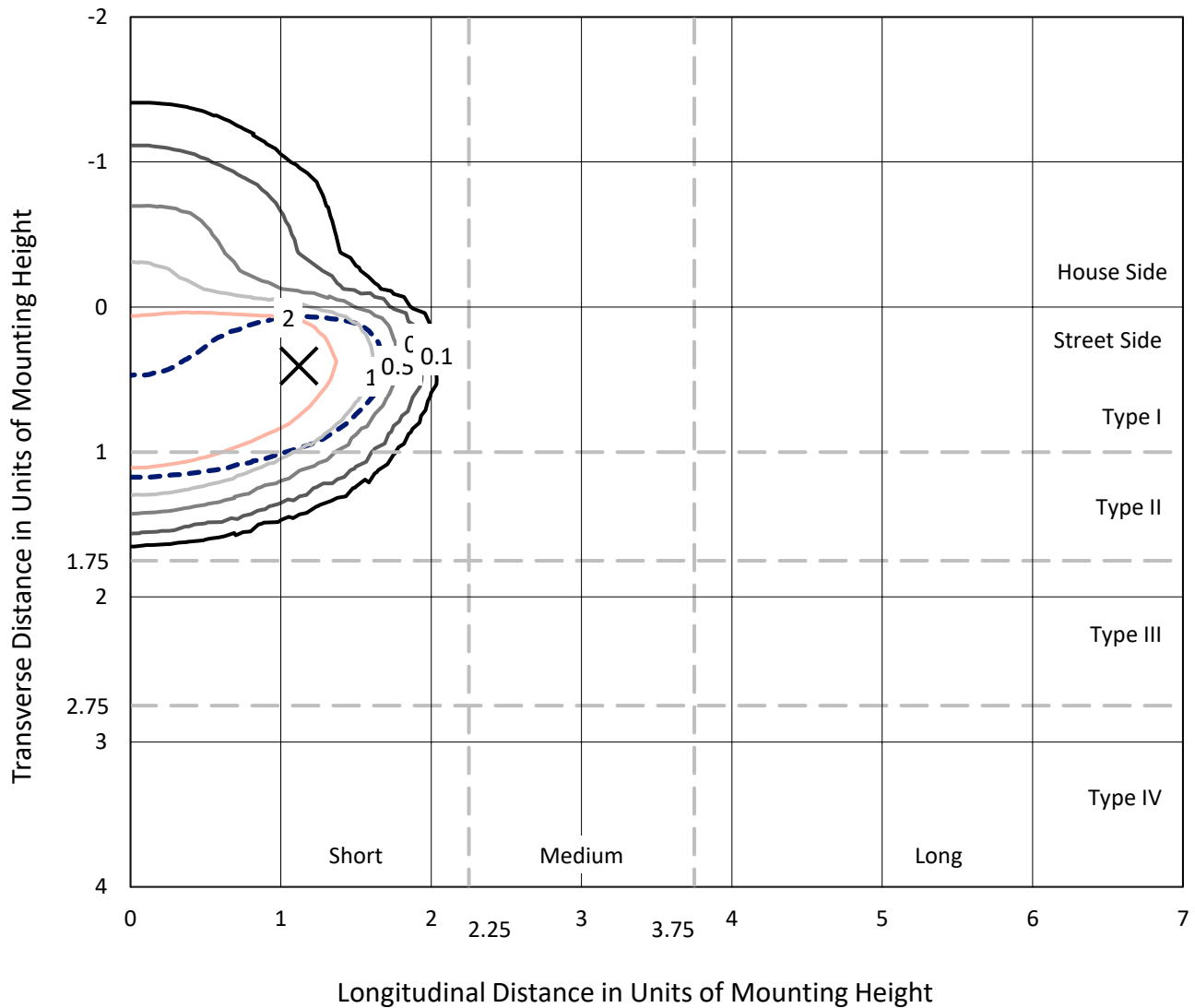


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

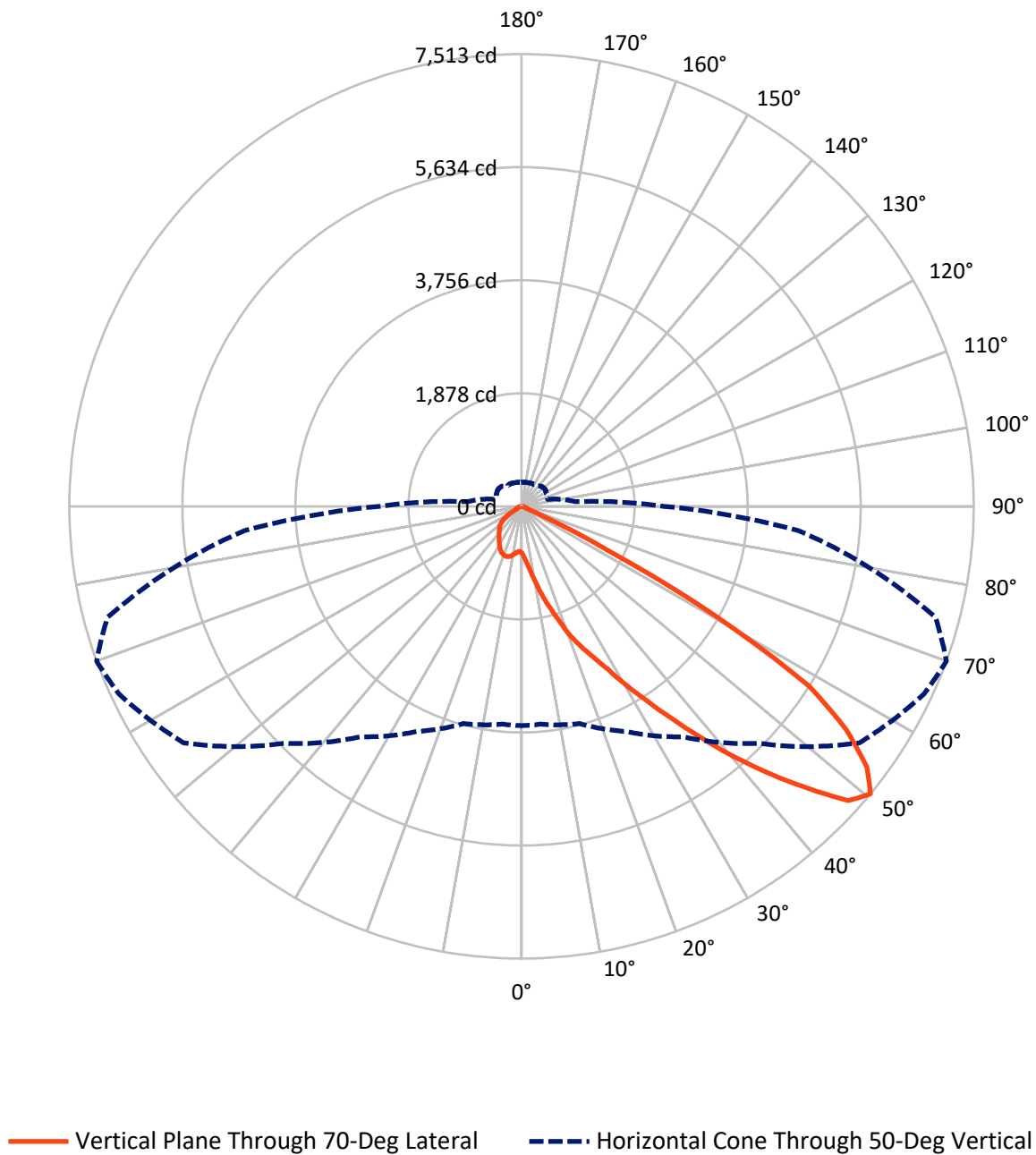


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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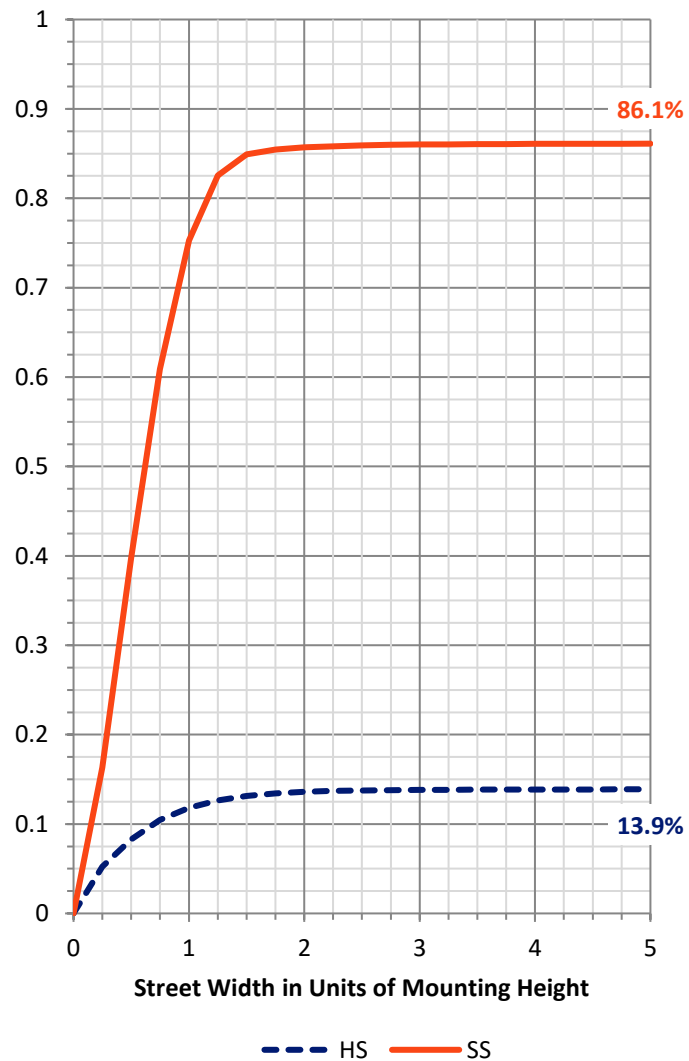
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1037.8	0.0	1037.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6393.2	0.0	6393.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	7431.0	0.0	7431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	1.3
10°-20°	433.0	5.8
20°-30°	908.3	12.2
30°-40°	1565.5	21.1
40°-50°	2288.0	30.8
50°-60°	1782.0	24.0
60°-70°	301.9	4.1
70°-80°	41.5	0.6
80°-90°	10.7	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°	7431.0	100.0
0°-180°	7431.0	100.0

Coefficient of Utilization



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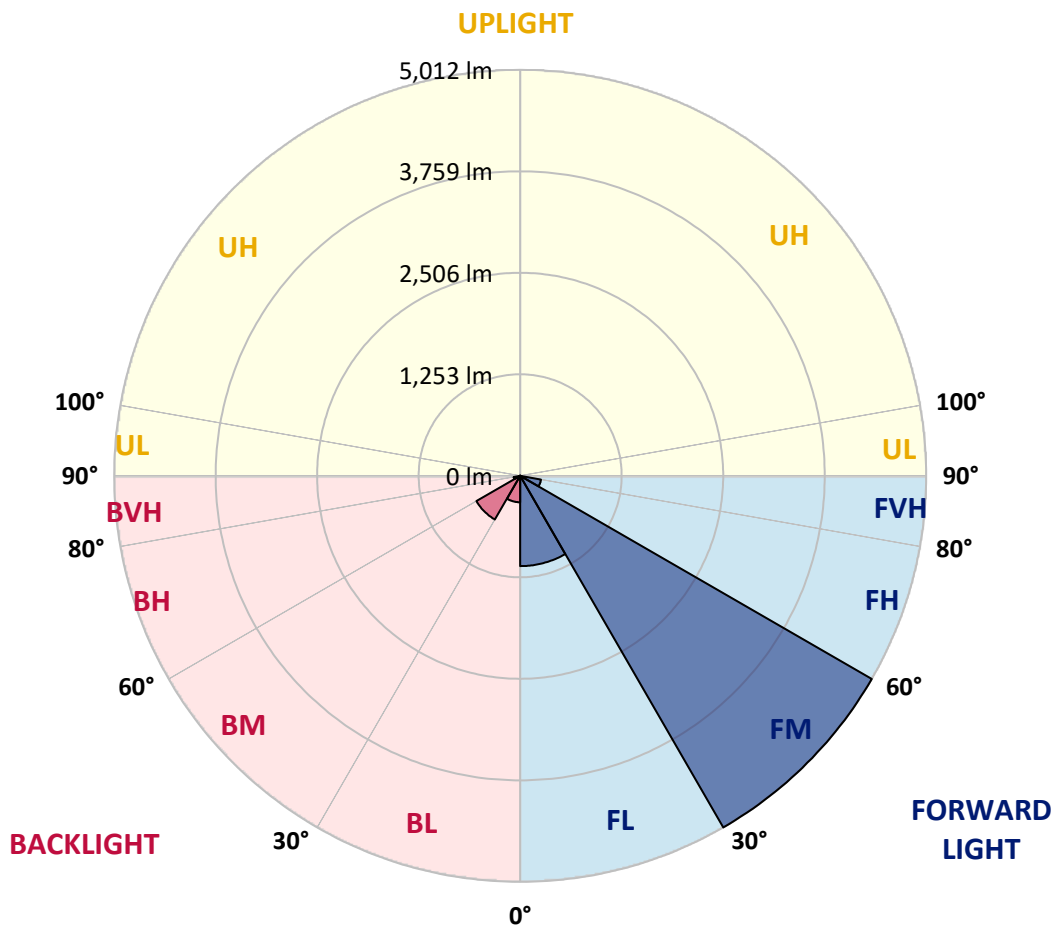
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1114.7	15.0			
FM	(30°-60°)	5012.1	67.4			
FH	(60°-80°)	261.4	3.5			G0/660
FVH	(80°-90°)	5.0	0.1			G0/10
BL	(0°-30°)	326.6	4.4	B1/500		
BM	(30°-60°)	623.5	8.4	B1/1000		
BH	(60°-80°)	82.0	1.1	B0/110		G0/110
BVH	(80°-90°)	5.8	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7
2.5°	1007.9	1000.6	984.7	955.4	943.2	913.9	896.8	863.8	843.0	819.8	794.1
5°	1419.7	1381.8	1358.6	1325.6	1229.1	1169.2	1070.3	986.0	946.9	904.1	845.5
7.5°	1844.8	1820.4	1788.6	1717.8	1651.8	1527.2	1357.4	1171.7	1092.2	1018.9	902.9
10°	2196.7	2128.3	2124.6	2072.1	2000.0	1851.0	1646.9	1416.0	1274.3	1166.8	984.7
12.5°	2442.3	2380.0	2408.1	2402.0	2334.8	2197.9	1962.1	1656.7	1508.9	1341.5	1069.0
15°	2665.9	2640.2	2631.7	2624.3	2597.4	2496.0	2284.7	1949.9	1736.1	1534.5	1164.3
17.5°	2884.6	2818.6	2850.4	2856.5	2854.0	2762.4	2564.5	2228.5	1976.8	1738.6	1264.5
20°	3078.8	3084.9	3042.2	3033.6	3026.3	3022.6	2829.6	2504.6	2272.5	1952.4	1395.2
22.5°	3328.1	3285.3	3323.2	3298.7	3251.1	3221.8	3073.9	2748.9	2529.0	2210.2	1528.4
25°	3622.5	3656.7	3567.5	3557.7	3505.2	3403.8	3270.6	3022.6	2775.8	2449.6	1672.6
27.5°	3985.4	3925.5	3902.3	3848.5	3753.2	3710.5	3554.1	3304.8	3073.9	2701.3	1811.9
30°	4296.9	4281.0	4165.0	4101.4	4018.4	4017.1	3798.4	3687.3	3462.5	3095.9	2003.7
32.5°	4551.0	4481.4	4438.6	4394.7	4327.5	4345.8	4161.3	4102.7	3876.6	3462.5	2229.7
35°	4720.9	4670.8	4645.1	4577.9	4558.4	4640.2	4563.3	4538.8	4353.1	3978.0	2494.8
37.5°	4774.6	4790.5	4785.6	4701.3	4742.9	4964.0	5063.0	4999.4	4901.7	4521.7	2781.9
40°	4822.3	4833.3	4808.8	4907.8	5026.3	5278.0	5636.0	5530.9	5494.2	5072.7	3181.4
42.5°	4849.1	4840.6	4840.6	5011.6	5191.2	5697.0	6189.4	6119.8	6091.7	5659.2	3643.3
45°	4733.1	4650.0	4739.2	4971.3	5333.0	5903.5	6631.7	6728.2	6687.9	6356.8	4183.3
47.5°	4299.4	4350.7	4400.8	4711.1	5160.7	5840.0	6902.9	7231.6	7306.1	6943.2	4537.6
50°	3643.3	3632.3	3736.1	4127.1	4673.2	5566.3	6850.4	7377.0	7512.6	7119.2	4612.1
52.5°	2650.0	2730.6	2843.0	3231.5	3879.1	4857.7	6172.3	7001.9	7182.7	6902.9	4563.3
55°	1543.1	1453.9	1706.8	2035.4	2646.3	3664.0	5218.1	6206.5	6541.3	6509.5	4316.5
57.5°	618.2	598.7	685.4	923.6	1380.6	2271.2	3794.8	5099.6	5636.0	5962.2	3793.5
60°	271.2	265.1	311.5	376.3	564.5	1047.0	2075.8	3171.7	3731.2	4166.2	2610.9
62.5°	195.5	193.0	216.3	239.5	298.1	455.7	872.3	1278.0	1593.2	1924.3	1169.2
65°	157.6	163.7	179.6	191.8	219.9	252.9	307.9	355.5	436.2	452.0	257.8
67.5°	128.3	133.2	147.8	161.3	166.2	136.8	141.7	124.6	124.6	111.2	89.2
70°	94.1	95.3	112.4	128.3	102.6	55.0	96.5	96.5	86.7	83.1	75.7
72.5°	69.6	70.9	84.3	79.4	40.3	34.2	70.9	78.2	70.9	67.2	61.1
75°	51.3	52.5	44.0	18.3	17.1	22.0	41.5	53.8	51.3	50.1	46.4
77.5°	9.8	7.3	6.1	8.6	12.2	18.3	26.9	33.0	34.2	36.7	34.2
80°	1.2	1.2	3.7	7.3	13.4	19.5	28.1	31.8	33.0	34.2	31.8
82.5°	0.0	1.2	3.7	7.3	13.4	18.3	24.4	28.1	30.5	31.8	30.5
85°	0.0	1.2	2.4	6.1	11.0	13.4	12.2	8.6	7.3	8.6	6.1
87.5°	0.0	0.0	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7	769.7
2.5°	779.5	774.6	757.5	739.2	723.3	730.6	723.3	717.2	719.6	717.2	714.7
5°	822.2	800.2	763.6	747.7	734.3	733.1	729.4	728.2	729.4	729.4	718.4
7.5°	862.6	827.1	788.0	770.9	755.0	756.3	747.7	747.7	746.5	740.4	737.9
10°	923.6	876.0	825.9	795.4	775.8	772.1	763.6	755.0	755.0	755.0	742.8
12.5°	990.8	931.0	862.6	827.1	803.9	785.6	772.1	769.7	756.3	753.8	747.7
15°	1049.5	973.7	887.0	838.1	808.8	784.4	763.6	750.2	744.0	740.4	735.5
17.5°	1106.9	1010.4	900.4	838.1	806.4	778.3	756.3	744.0	729.4	731.8	722.1
20°	1183.9	1049.5	904.1	822.2	783.1	756.3	726.9	720.8	712.3	705.0	707.4
22.5°	1258.4	1077.6	893.1	802.7	746.5	714.7	700.1	692.7	689.1	683.0	674.4
25°	1325.6	1108.1	876.0	767.3	707.4	684.2	670.7	669.5	661.0	661.0	645.1
27.5°	1394.0	1119.1	846.7	725.7	673.2	659.7	653.6	651.2	647.5	639.0	628.0
30°	1472.2	1122.8	803.9	683.0	642.6	628.0	636.5	642.6	626.8	610.9	615.8
32.5°	1537.0	1114.2	752.6	642.6	620.7	613.3	630.4	636.5	618.2	601.1	592.6
35°	1615.2	1093.5	702.5	610.9	598.7	613.3	628.0	628.0	591.3	570.6	565.7
37.5°	1733.7	1070.3	656.1	584.0	575.4	606.0	625.5	612.1	554.7	529.0	522.9
40°	1860.7	1055.6	610.9	557.1	563.2	593.8	604.8	563.2	504.6	488.7	483.8
42.5°	2045.2	1026.3	570.6	533.9	552.2	576.7	576.7	502.1	480.1	471.6	470.4
45°	2274.9	1005.5	535.1	514.4	536.4	542.5	522.9	470.4	454.5	452.0	453.3
47.5°	2387.3	965.2	498.5	491.1	507.0	508.2	456.9	444.7	431.3	427.6	425.2
50°	2370.2	893.1	450.8	460.6	482.6	470.4	416.6	419.1	406.8	405.6	399.5
52.5°	2250.5	779.5	403.2	426.4	450.8	415.4	383.6	381.2	381.2	365.3	359.2
55°	1995.1	628.0	345.8	375.1	404.4	349.4	340.9	338.4	332.3	317.7	314.0
57.5°	1579.7	460.6	260.2	292.0	343.3	296.9	295.7	284.7	268.8	257.8	257.8
60°	939.5	265.1	163.7	178.4	227.2	240.7	267.6	262.7	235.8	218.7	213.8
62.5°	428.8	136.8	103.8	106.3	122.2	156.4	210.1	243.1	205.3	175.9	173.5
65°	144.2	101.4	85.5	81.9	84.3	94.1	125.8	172.3	163.7	135.6	130.7
67.5°	88.0	90.4	80.6	74.5	74.5	73.3	72.1	78.2	96.5	94.1	95.3
70°	75.7	83.1	74.5	67.2	64.8	61.1	51.3	42.8	36.7	42.8	45.2
72.5°	61.1	66.0	63.5	57.4	51.3	46.4	36.7	28.1	20.8	18.3	18.3
75°	45.2	48.9	51.3	44.0	39.1	33.0	26.9	18.3	11.0	7.3	7.3
77.5°	33.0	36.7	37.9	34.2	29.3	23.2	17.1	12.2	6.1	2.4	2.4
80°	28.1	33.0	36.7	34.2	30.5	22.0	15.9	8.6	4.9	1.2	1.2
82.5°	26.9	33.0	36.7	33.0	29.3	20.8	15.9	9.8	3.7	1.2	1.2
85°	6.1	8.6	11.0	13.4	15.9	15.9	12.2	7.3	3.7	1.2	1.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	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)