

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: P528111

Luminaire Tested: **GALN-SA3A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528111
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-SA3A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 7175 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 93
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

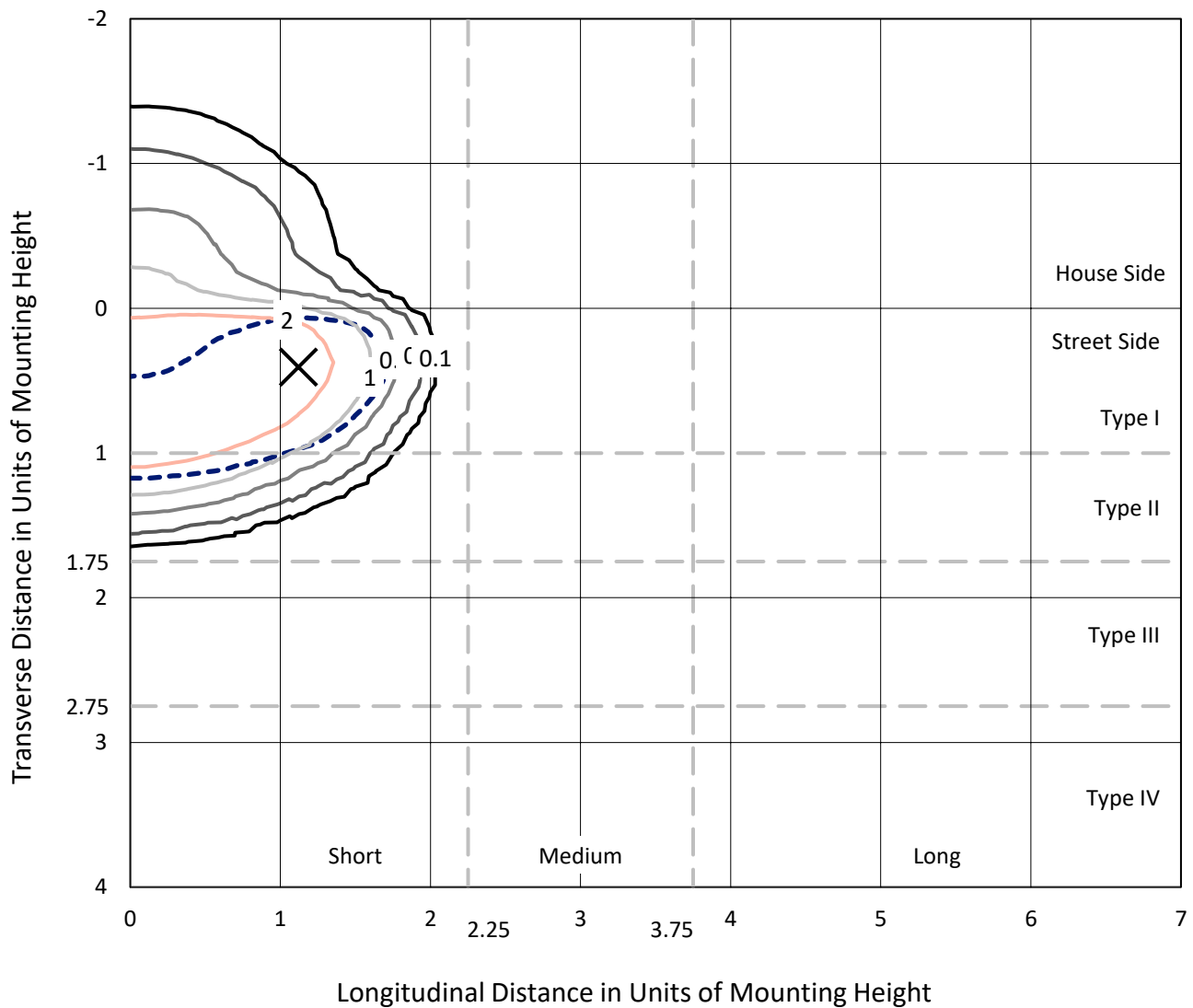


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

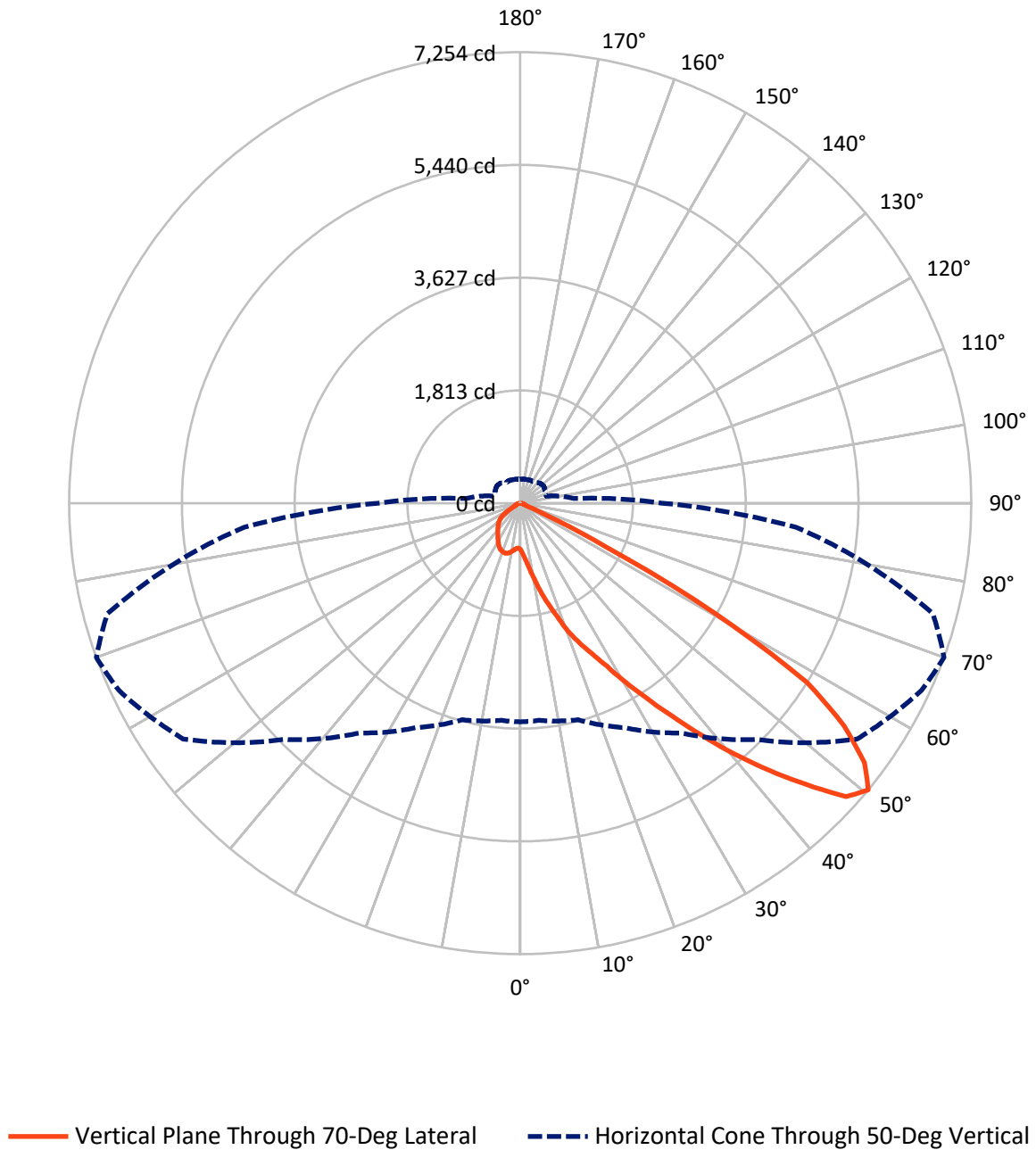


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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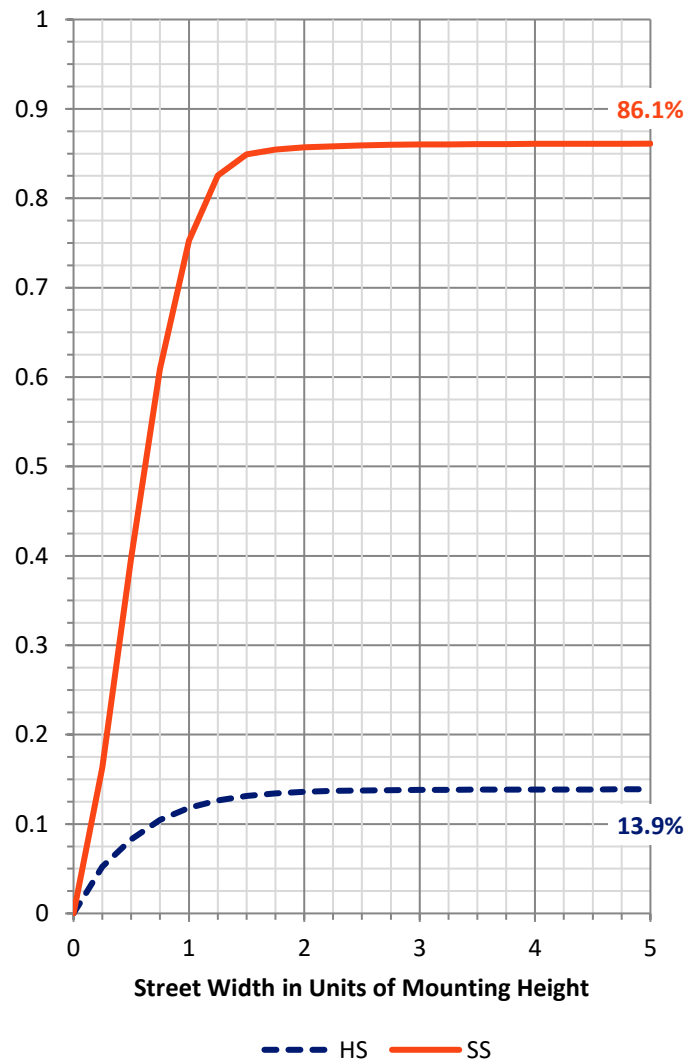
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1002.0	0.0	1002.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6173.0	0.0	6173.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	7175.0	0.0	7175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.3
10°-20°	418.0	5.8
20°-30°	877.0	12.2
30°-40°	1511.6	21.1
40°-50°	2209.2	30.8
50°-60°	1720.6	24.0
60°-70°	291.5	4.1
70°-80°	40.0	0.6
80°-90°	10.4	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°	7175.0	100.0
0°-180°	7175.0	100.0

Coefficient of Utilization



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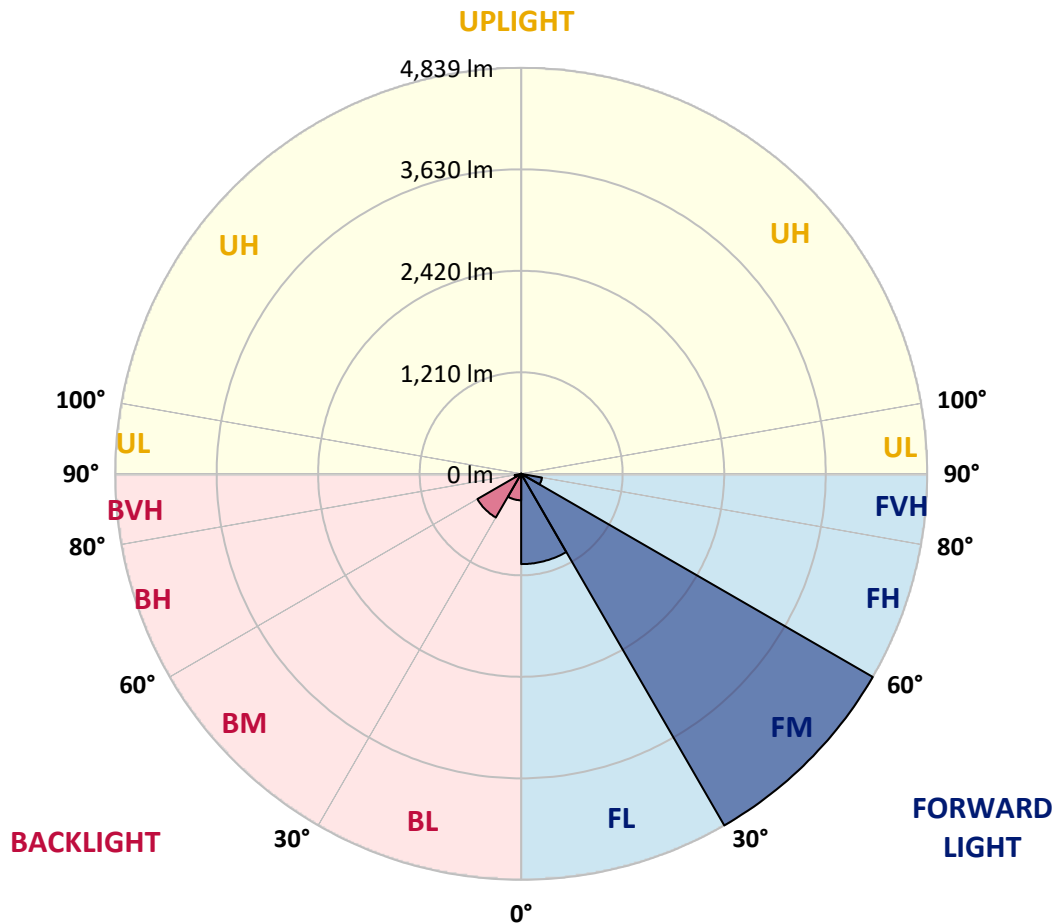
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1076.3	15.0			
FM	(30°-60°)	4839.4	67.4			
FH	(60°-80°)	252.4	3.5			G0/660
FVH	(80°-90°)	4.8	0.1			G0/10
BL	(0°-30°)	315.3	4.4	B1/500		
BM	(30°-60°)	602.0	8.4	B1/1000		
BH	(60°-80°)	79.2	1.1	B0/110		G0/110
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: 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°	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2
2.5°	973.2	966.1	950.8	922.5	910.7	882.4	865.9	834.0	814.0	791.6	766.8
5°	1370.8	1334.2	1311.8	1279.9	1186.7	1128.9	1033.4	952.0	914.2	873.0	816.3
7.5°	1781.3	1757.7	1727.0	1658.6	1594.9	1474.6	1310.6	1131.3	1054.6	983.8	871.8
10°	2121.0	2055.0	2051.4	2000.7	1931.1	1787.2	1590.2	1367.2	1230.4	1126.6	950.8
12.5°	2358.1	2298.0	2325.1	2319.2	2254.3	2122.2	1894.5	1599.6	1456.9	1295.3	1032.2
15°	2574.0	2549.3	2541.0	2533.9	2508.0	2410.1	2206.0	1882.7	1676.3	1481.7	1124.2
17.5°	2785.2	2721.5	2752.2	2758.1	2755.7	2667.2	2476.1	2151.7	1908.7	1678.7	1221.0
20°	2972.8	2978.7	2937.4	2929.1	2922.0	2918.5	2732.1	2418.3	2194.2	1885.1	1347.2
22.5°	3213.4	3172.1	3208.7	3185.1	3139.1	3110.8	2968.0	2654.2	2441.9	2134.0	1475.8
25°	3497.7	3530.7	3444.6	3435.2	3384.5	3286.5	3158.0	2918.5	2680.2	2365.2	1615.0
27.5°	3848.1	3790.3	3767.8	3715.9	3623.9	3582.6	3431.6	3191.0	2968.0	2608.2	1749.4
30°	4148.9	4133.5	4021.5	3960.1	3879.9	3878.7	3667.6	3560.2	3343.2	2989.3	1934.6
32.5°	4394.3	4327.0	4285.7	4243.3	4178.4	4196.1	4017.9	3961.3	3743.1	3343.2	2152.9
35°	4558.2	4509.9	4485.1	4420.2	4401.3	4480.4	4406.0	4382.5	4203.1	3841.0	2408.9
37.5°	4610.1	4625.5	4620.7	4539.3	4579.5	4793.0	4888.5	4827.2	4732.8	4365.9	2686.1
40°	4656.1	4666.8	4643.2	4738.7	4853.1	5096.2	5441.8	5340.3	5305.0	4898.0	3071.8
42.5°	4682.1	4673.8	4673.8	4839.0	5012.4	5500.8	5976.2	5908.9	5881.8	5464.2	3517.8
45°	4570.0	4489.8	4575.9	4800.1	5149.2	5700.1	6403.2	6496.4	6457.5	6137.8	4039.2
47.5°	4151.2	4200.8	4249.2	4548.8	4982.9	5638.8	6665.1	6982.4	7054.4	6704.0	4381.3
50°	3517.8	3507.1	3607.4	3984.9	4512.2	5374.6	6614.4	7122.8	7253.8	6873.9	4453.2
52.5°	2558.7	2636.6	2745.1	3120.2	3745.4	4690.3	5959.7	6760.7	6935.2	6665.1	4406.0
55°	1489.9	1403.8	1648.0	1965.3	2555.2	3537.8	5038.3	5992.7	6315.9	6285.3	4167.8
57.5°	596.9	578.0	661.8	891.8	1333.0	2193.0	3664.0	4923.9	5441.8	5756.8	3662.9
60°	261.9	256.0	300.8	363.3	545.0	1011.0	2004.3	3062.4	3602.7	4022.7	2520.9
62.5°	188.7	186.4	208.8	231.2	287.8	440.0	842.3	1233.9	1538.3	1858.0	1128.9
65°	152.2	158.1	173.4	185.2	212.3	244.2	297.3	343.3	421.1	436.5	248.9
67.5°	123.9	128.6	142.7	155.7	160.4	132.1	136.8	120.3	120.3	107.3	86.1
70°	90.8	92.0	108.5	123.9	99.1	53.1	93.2	93.2	83.8	80.2	73.1
72.5°	67.2	68.4	81.4	76.7	38.9	33.0	68.4	75.5	68.4	64.9	59.0
75°	49.5	50.7	42.5	17.7	16.5	21.2	40.1	51.9	49.5	48.4	44.8
77.5°	9.4	7.1	5.9	8.3	11.8	17.7	26.0	31.9	33.0	35.4	33.0
80°	1.2	1.2	3.5	7.1	13.0	18.9	27.1	30.7	31.9	33.0	30.7
82.5°	0.0	1.2	3.5	7.1	13.0	17.7	23.6	27.1	29.5	30.7	29.5
85°	0.0	1.2	2.4	5.9	10.6	13.0	11.8	8.3	7.1	8.3	5.9
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°	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2	743.2
2.5°	752.6	747.9	731.4	713.7	698.4	705.4	698.4	692.5	694.8	692.5	690.1
5°	793.9	772.7	737.3	722.0	709.0	707.8	704.3	703.1	704.3	704.3	693.6
7.5°	832.8	798.6	760.9	744.4	729.0	730.2	722.0	722.0	720.8	714.9	712.5
10°	891.8	845.8	797.5	768.0	749.1	745.5	737.3	729.0	729.0	729.0	717.2
12.5°	956.7	898.9	832.8	798.6	776.2	758.5	745.5	743.2	730.2	727.9	722.0
15°	1013.3	940.2	856.4	809.2	780.9	757.3	737.3	724.3	718.4	714.9	710.2
17.5°	1068.8	975.6	869.4	809.2	778.6	751.4	730.2	718.4	704.3	706.6	697.2
20°	1143.1	1013.3	873.0	793.9	756.2	730.2	701.9	696.0	687.7	680.7	683.0
22.5°	1215.1	1040.5	862.3	775.0	720.8	690.1	675.9	668.9	665.3	659.4	651.2
25°	1279.9	1070.0	845.8	740.8	683.0	660.6	647.6	646.5	638.2	638.2	622.9
27.5°	1346.0	1080.6	817.5	700.7	650.0	637.0	631.1	628.8	625.2	617.0	606.3
30°	1421.5	1084.1	776.2	659.4	620.5	606.3	614.6	620.5	605.2	589.8	594.6
32.5°	1484.0	1075.9	726.7	620.5	599.3	592.2	608.7	614.6	596.9	580.4	572.1
35°	1559.5	1055.8	678.3	589.8	578.0	592.2	606.3	606.3	571.0	550.9	546.2
37.5°	1673.9	1033.4	633.5	563.9	555.6	585.1	604.0	591.0	535.6	510.8	504.9
40°	1796.6	1019.2	589.8	537.9	543.8	573.3	583.9	543.8	487.2	471.9	467.1
42.5°	1974.8	990.9	550.9	515.5	533.2	556.8	556.8	484.8	463.6	455.4	454.2
45°	2196.5	970.9	516.7	496.6	517.9	523.8	504.9	454.2	438.8	436.5	437.7
47.5°	2305.1	931.9	481.3	474.2	489.6	490.7	441.2	429.4	416.4	412.9	410.5
50°	2288.5	862.3	435.3	444.7	466.0	454.2	402.3	404.6	392.8	391.6	385.8
52.5°	2172.9	752.6	389.3	411.7	435.3	401.1	370.4	368.1	368.1	352.7	346.8
55°	1926.4	606.3	333.8	362.2	390.5	337.4	329.1	326.8	320.9	306.7	303.2
57.5°	1525.3	444.7	251.3	281.9	331.5	286.7	285.5	274.9	259.5	248.9	248.9
60°	907.2	256.0	158.1	172.2	219.4	232.4	258.3	253.6	227.7	211.2	206.4
62.5°	414.1	132.1	100.3	102.6	118.0	151.0	202.9	234.8	198.2	169.9	167.5
65°	139.2	97.9	82.6	79.0	81.4	90.8	121.5	166.3	158.1	130.9	126.2
67.5°	84.9	87.3	77.9	72.0	72.0	70.8	69.6	75.5	93.2	90.8	92.0
70°	73.1	80.2	72.0	64.9	62.5	59.0	49.5	41.3	35.4	41.3	43.6
72.5°	59.0	63.7	61.3	55.4	49.5	44.8	35.4	27.1	20.1	17.7	17.7
75°	43.6	47.2	49.5	42.5	37.7	31.9	26.0	17.7	10.6	7.1	7.1
77.5°	31.9	35.4	36.6	33.0	28.3	22.4	16.5	11.8	5.9	2.4	2.4
80°	27.1	31.9	35.4	33.0	29.5	21.2	15.3	8.3	4.7	1.2	1.2
82.5°	26.0	31.9	35.4	31.9	28.3	20.1	15.3	9.4	3.5	1.2	1.2
85°	5.9	8.3	10.6	13.0	15.3	15.3	11.8	7.1	3.5	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)