

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: P451514

Luminaire Tested: **GALN-SA2B-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6735 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

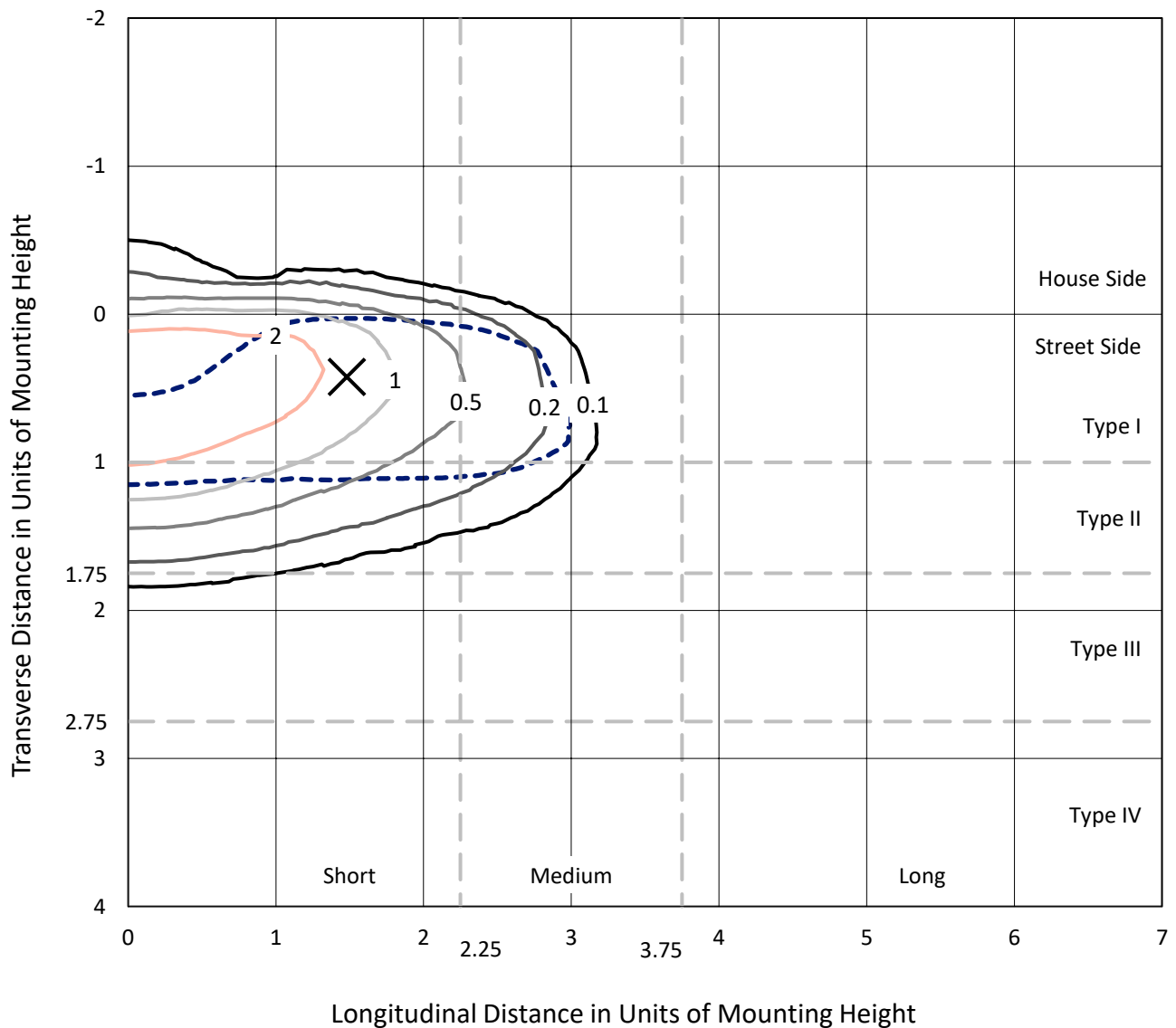
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

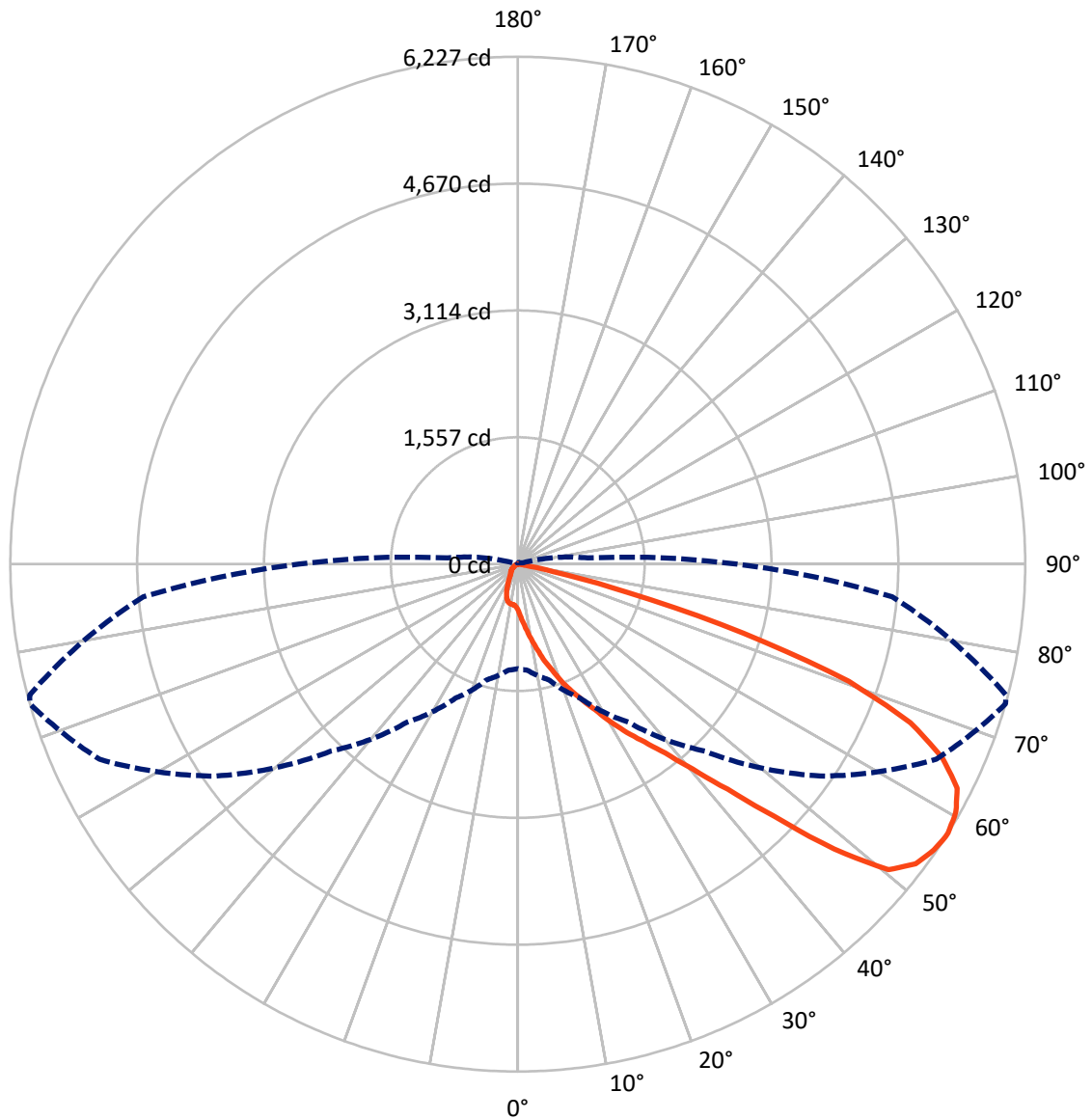
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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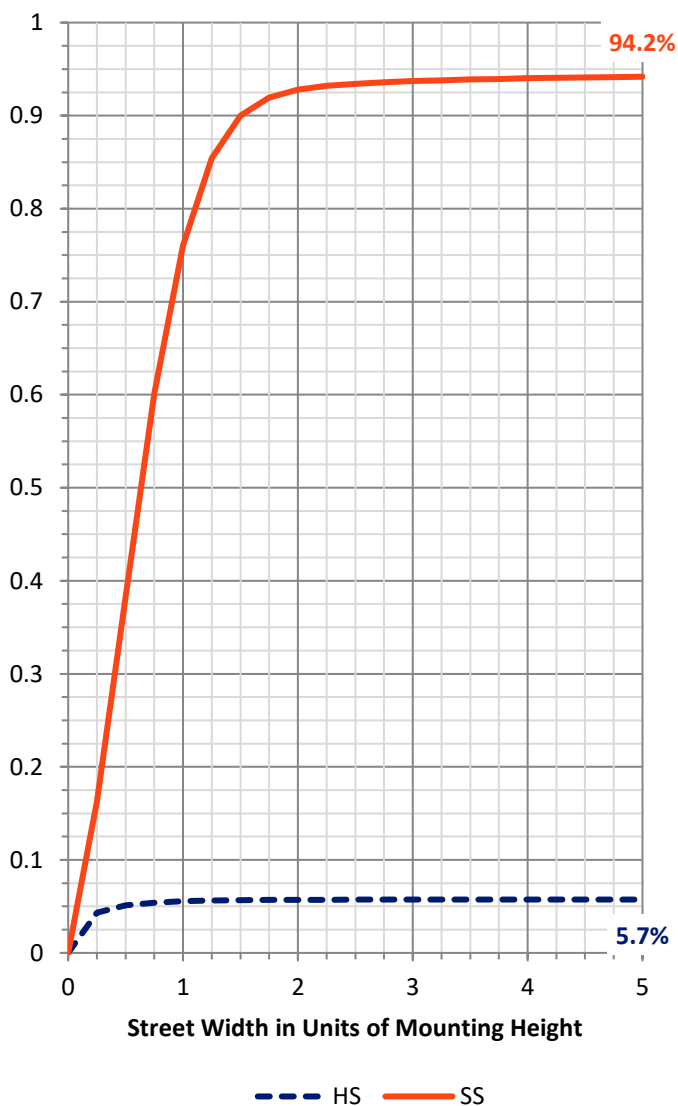
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.5	0.0	388.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	6346.6	0.0	6346.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	6735.0	0.0	6735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.0
10°-20°	268.4	4.0
20°-30°	574.2	8.5
30°-40°	1055.4	15.7
40°-50°	1617.9	24.0
50°-60°	1711.5	25.4
60°-70°	1117.7	16.6
70°-80°	305.4	4.5
80°-90°	16.5	0.2
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°	6735.0	100.0
0°-180°	6735.0	100.0

Coefficient of Utilization



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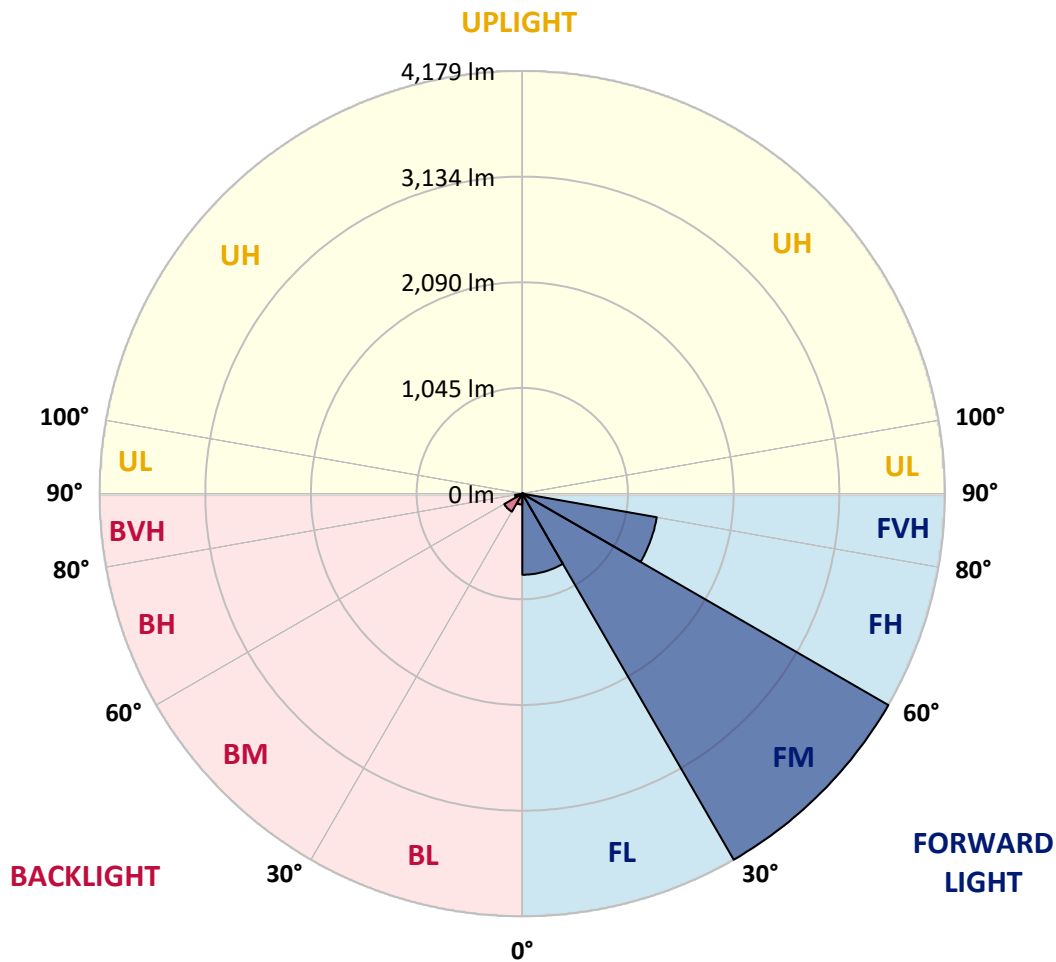
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.1	11.9			
FM	(30°-60°)	4179.2	62.1			
FH	(60°-80°)	1350.1	20.0			G1/1800
FVH	(80°-90°)	15.1	0.2			G1/100
BL	(0°-30°)	108.5	1.6	B0/110		
BM	(30°-60°)	205.7	3.1	B0/220		
BH	(60°-80°)	72.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	825.4	817.9	803.1	797.9	776.1	742.1	712.4	672.4	640.8	637.5	599.4
5°	1105.3	1088.6	1081.6	1048.1	995.6	946.3	861.6	797.5	723.5	718.0	641.2
7.5°	1375.0	1351.8	1344.8	1313.2	1251.8	1174.1	1064.4	947.7	830.5	819.8	697.5
10°	1570.3	1573.6	1561.0	1540.1	1490.3	1411.3	1276.0	1116.5	949.5	936.0	760.7
12.5°	1710.3	1709.8	1712.1	1711.7	1685.2	1625.2	1482.9	1299.2	1080.7	1054.2	833.3
15°	1801.4	1802.8	1809.8	1834.0	1836.8	1799.6	1681.0	1474.1	1232.7	1199.7	911.9
17.5°	1893.5	1903.3	1914.4	1937.2	1957.7	1942.8	1859.1	1656.3	1370.4	1345.7	996.0
20°	2045.5	2059.0	2052.5	2066.5	2077.2	2078.6	2013.9	1824.7	1537.3	1495.9	1092.3
22.5°	2288.7	2288.3	2271.5	2246.4	2225.5	2224.6	2166.0	1997.6	1688.9	1648.9	1189.0
25°	2596.1	2597.5	2565.0	2493.3	2441.3	2377.6	2310.1	2149.2	1851.2	1801.9	1290.8
27.5°	2948.6	2939.7	2890.5	2791.9	2688.6	2579.8	2482.6	2325.5	2023.2	1982.3	1407.6
30°	3265.2	3262.0	3204.3	3083.9	2948.1	2838.8	2697.9	2546.4	2246.0	2195.7	1538.2
32.5°	3560.1	3564.7	3484.7	3360.1	3229.0	3103.0	2954.2	2757.5	2464.5	2393.4	1680.5
35°	3790.2	3794.9	3712.1	3608.4	3473.6	3368.9	3227.1	2982.5	2680.3	2620.3	1844.2
37.5°	3913.0	3919.0	3871.1	3793.0	3708.9	3656.3	3524.3	3272.2	2942.5	2906.3	2037.6
40°	3936.2	3943.2	3922.3	3901.4	3896.7	3934.4	3895.8	3613.5	3306.2	3249.4	2325.9
42.5°	3866.5	3875.8	3885.1	3931.6	4026.5	4164.6	4298.9	4076.7	3774.4	3698.2	2678.4
45°	3683.3	3682.4	3719.1	3839.5	4052.0	4346.8	4720.2	4656.5	4412.4	4321.7	3176.4
47.5°	3369.9	3365.2	3444.7	3616.3	3947.4	4380.3	5063.9	5360.5	5226.6	5142.9	3711.6
50°	2892.3	2915.1	3040.2	3279.7	3687.5	4278.9	5169.9	5822.3	5894.8	5806.0	4144.1
52.5°	2332.9	2332.0	2528.2	2853.3	3302.4	4055.7	5096.0	5906.0	6112.0	6044.1	4357.1
55°	1726.6	1738.6	1942.8	2270.6	2802.6	3648.4	4854.6	5820.0	6194.8	6146.9	4497.5
57°	1284.3	1305.7	1469.4	1816.3	2367.3	3245.2	4533.3	5666.0	6227.3	6201.3	4614.2
57.5°	1198.8	1199.7	1359.2	1674.5	2239.9	3090.4	4441.2	5601.9	6226.4	6212.0	4633.3
60°	738.0	761.2	871.4	1131.8	1639.6	2412.0	3824.2	5233.1	6178.0	6198.9	4714.7
62.5°	441.8	451.5	523.1	682.2	1056.9	1760.5	3129.5	4761.2	6052.0	6115.7	4709.1
65°	284.1	286.4	319.0	412.9	660.8	1189.9	2411.5	4137.6	5726.0	5843.2	4524.9
67.5°	219.5	223.2	236.2	271.1	383.2	741.2	1705.6	3472.2	5198.7	5349.8	4078.5
70°	194.8	196.7	201.3	212.5	253.4	418.5	1061.1	2712.4	4311.0	4353.8	3191.8
72.5°	159.0	164.1	178.6	182.3	200.9	261.3	590.6	1820.5	2896.5	2907.2	1785.6
75°	123.2	124.2	145.5	156.2	169.3	180.0	263.7	917.9	1391.3	1316.9	688.2
77.5°	92.1	96.3	106.0	119.5	138.1	128.8	118.1	346.0	432.0	424.1	200.0
80°	59.1	61.4	73.9	89.7	107.4	84.2	66.5	101.4	94.9	97.7	47.9
82.5°	29.8	30.2	47.4	73.0	68.4	42.3	41.9	41.4	35.3	34.9	22.3
85°	3.3	7.0	30.7	41.9	30.7	14.0	19.5	19.1	18.6	19.1	13.0
87.5°	0.5	0.5	5.1	6.0	4.2	4.7	5.6	6.0	7.4	7.0	5.6
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°	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0	564.0
2.5°	580.8	562.2	527.8	494.8	470.1	454.3	433.8	426.4	415.7	414.3	409.2
5°	605.9	570.6	510.6	463.1	425.0	396.2	371.1	350.1	333.4	329.7	331.5
7.5°	641.7	589.2	505.5	440.8	387.8	338.5	298.5	273.9	256.2	249.7	250.6
10°	682.2	613.8	504.5	417.1	336.2	275.7	232.0	210.2	200.0	196.2	192.0
12.5°	730.1	642.2	502.2	380.4	279.5	219.9	188.8	175.8	166.0	163.2	163.2
15°	784.0	672.4	491.0	334.8	226.9	181.8	160.9	150.7	147.4	144.6	144.6
17.5°	840.3	702.2	467.8	278.5	188.3	155.8	142.8	136.7	132.1	128.8	128.8
20°	904.4	731.4	430.6	228.8	159.0	139.0	128.8	121.8	118.1	115.3	114.4
22.5°	965.3	755.2	383.2	187.9	138.6	125.1	115.8	108.3	104.6	103.2	103.2
25°	1028.6	769.6	326.0	155.3	126.5	113.5	103.2	97.2	93.9	93.0	92.5
27.5°	1090.0	777.9	275.7	135.8	115.3	102.8	93.0	88.4	85.1	84.2	84.6
30°	1164.4	779.3	226.9	121.8	105.6	92.5	83.7	79.5	77.7	76.7	76.3
32.5°	1239.7	777.5	190.7	113.5	96.3	83.7	76.3	73.0	71.6	70.2	70.2
35°	1324.3	767.7	162.3	105.1	87.4	76.3	69.8	67.0	65.1	63.7	63.2
37.5°	1429.4	762.6	146.0	95.8	79.5	69.3	63.2	60.5	59.1	57.2	56.7
40°	1595.0	785.4	140.9	87.4	71.6	62.8	57.2	53.9	52.1	50.2	49.8
42.5°	1801.4	825.4	132.5	79.1	64.6	56.7	51.2	47.4	44.2	41.9	40.9
45°	2068.8	877.9	119.5	70.2	58.6	50.2	45.1	40.5	36.3	34.4	33.9
47.5°	2349.2	928.6	107.9	63.2	52.1	44.6	39.1	33.9	30.2	28.8	28.4
50°	2521.2	938.8	100.4	55.3	45.6	38.6	33.0	28.4	26.0	24.6	24.6
52.5°	2599.8	922.6	90.2	48.4	39.5	33.9	28.4	24.6	23.3	22.3	21.9
55°	2654.7	897.5	76.7	41.9	33.9	28.8	25.1	22.3	20.5	19.5	19.1
57°	2686.8	863.5	66.5	36.7	29.3	25.1	22.3	20.0	18.1	16.3	16.3
57.5°	2688.2	850.5	63.7	36.3	27.9	24.2	21.9	19.5	17.2	15.3	14.9
60°	2646.8	761.2	51.2	30.7	22.3	20.5	18.1	15.3	12.1	10.2	9.8
62.5°	2513.8	647.7	42.3	26.0	18.1	15.8	13.0	11.6	8.4	6.0	6.0
65°	2312.5	525.5	36.3	20.9	14.9	11.6	8.8	8.4	5.1	2.8	2.3
67.5°	2021.4	409.2	30.7	17.2	12.6	8.4	6.0	5.6	2.8	0.9	0.0
70°	1540.1	279.0	25.6	14.0	9.3	6.0	4.2	3.3	1.9	0.5	0.0
72.5°	887.7	153.5	21.4	10.7	7.0	4.7	3.3	1.9	1.9	0.0	0.0
75°	317.1	66.0	16.3	7.9	5.6	3.7	2.3	0.9	1.4	0.5	0.0
77.5°	100.9	35.3	10.7	6.0	4.7	2.8	1.9	0.9	0.9	0.5	0.0
80°	29.8	18.6	6.5	5.1	3.3	2.3	1.4	0.5	0.9	0.5	0.0
82.5°	16.3	9.3	5.1	3.7	3.3	1.9	1.4	0.5	0.5	0.5	0.0
85°	8.4	5.6	4.2	3.7	3.3	1.9	1.4	0.5	0.0	0.5	0.5
87.5°	4.7	4.2	4.2	3.7	3.3	2.3	1.4	0.5	0.0	0.0	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)