

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: P647249

Luminaire Tested: **GALN-SA1D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4413.8 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

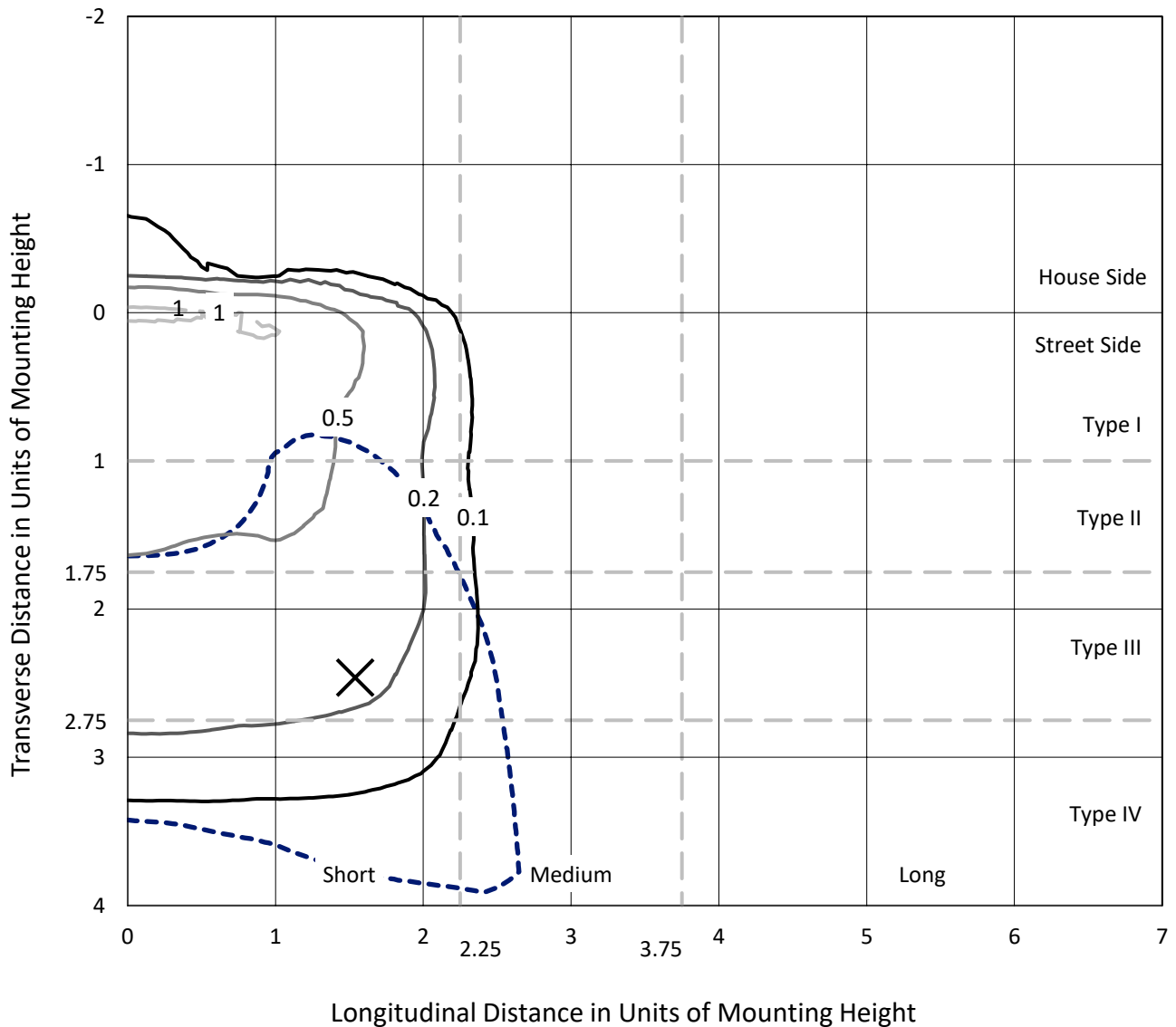
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

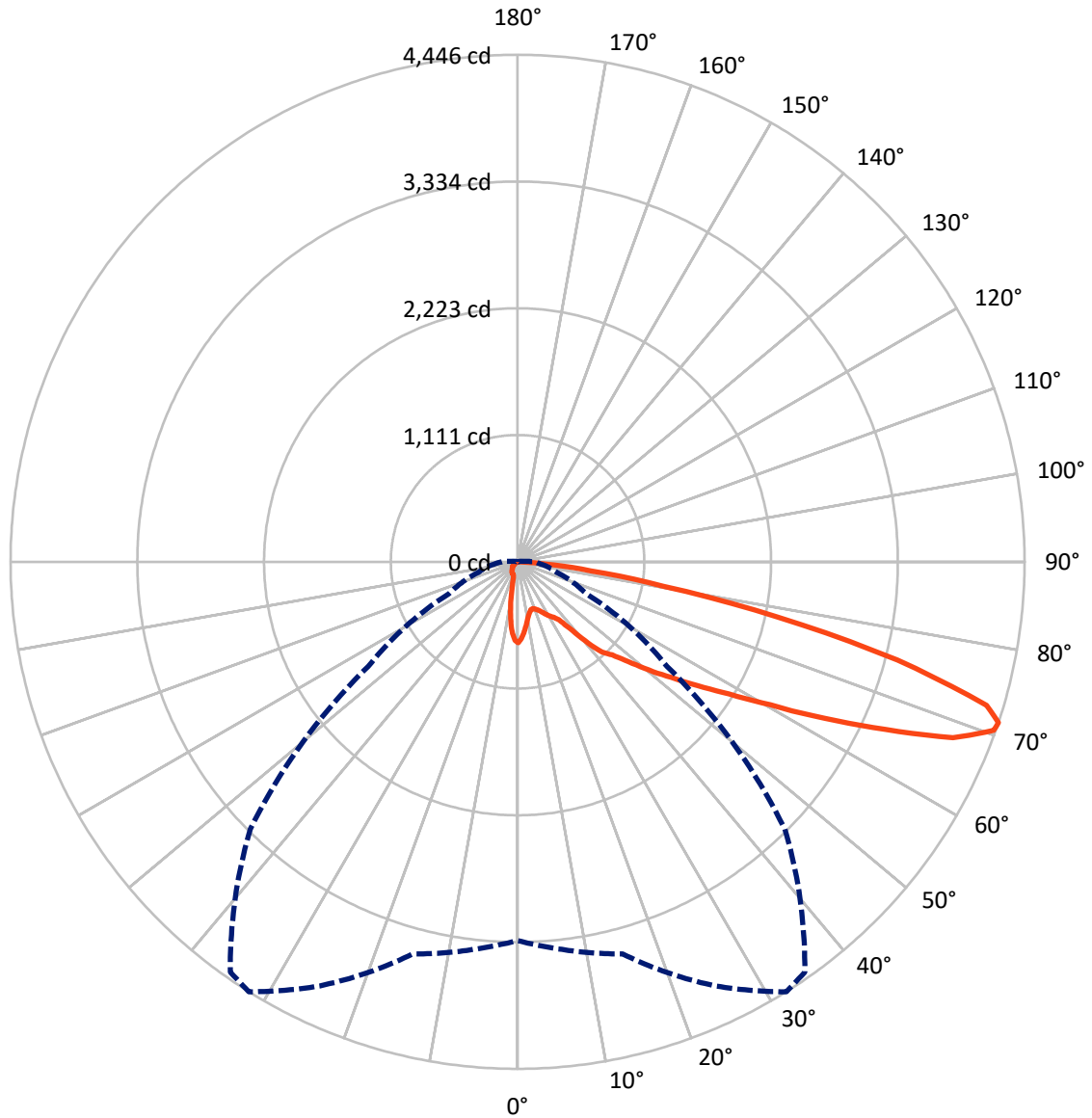
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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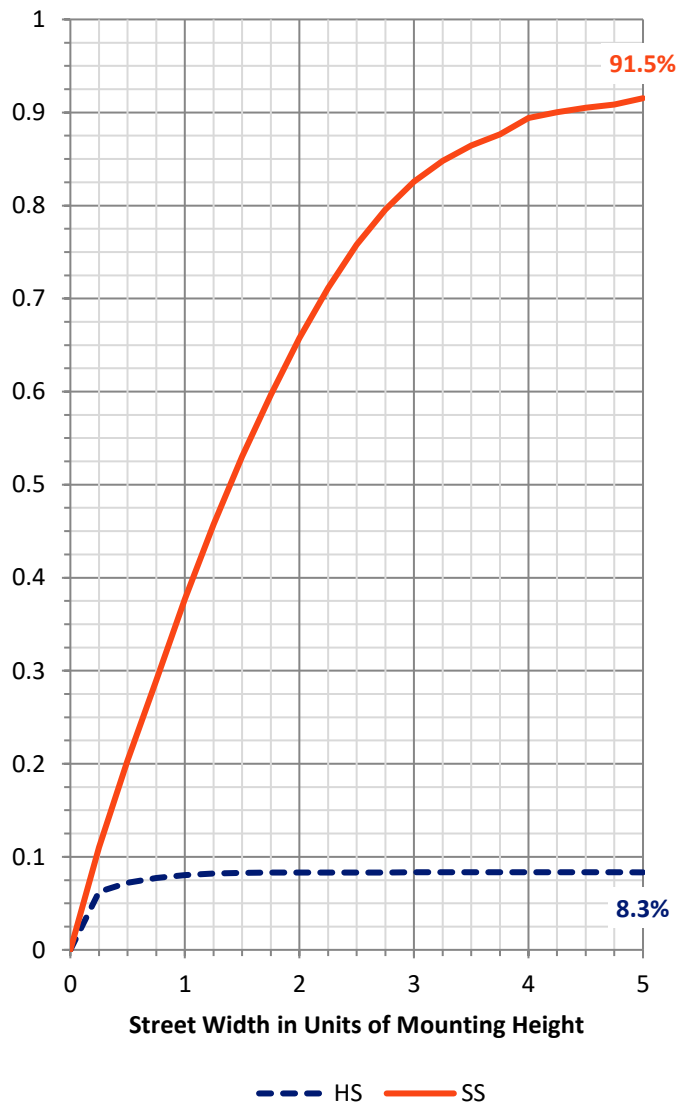
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	369.7	0.0	369.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4044.1	0.0	4044.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	4413.8	0.0	4413.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.3
10°-20°	125.3	2.8
20°-30°	194.9	4.4
30°-40°	324.7	7.4
40°-50°	603.9	13.7
50°-60°	969.6	22.0
60°-70°	1304.2	29.5
70°-80°	773.8	17.5
80°-90°	59.8	1.4
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°	4413.8	100.0
0°-180°	4413.8	100.0

Coefficient of Utilization

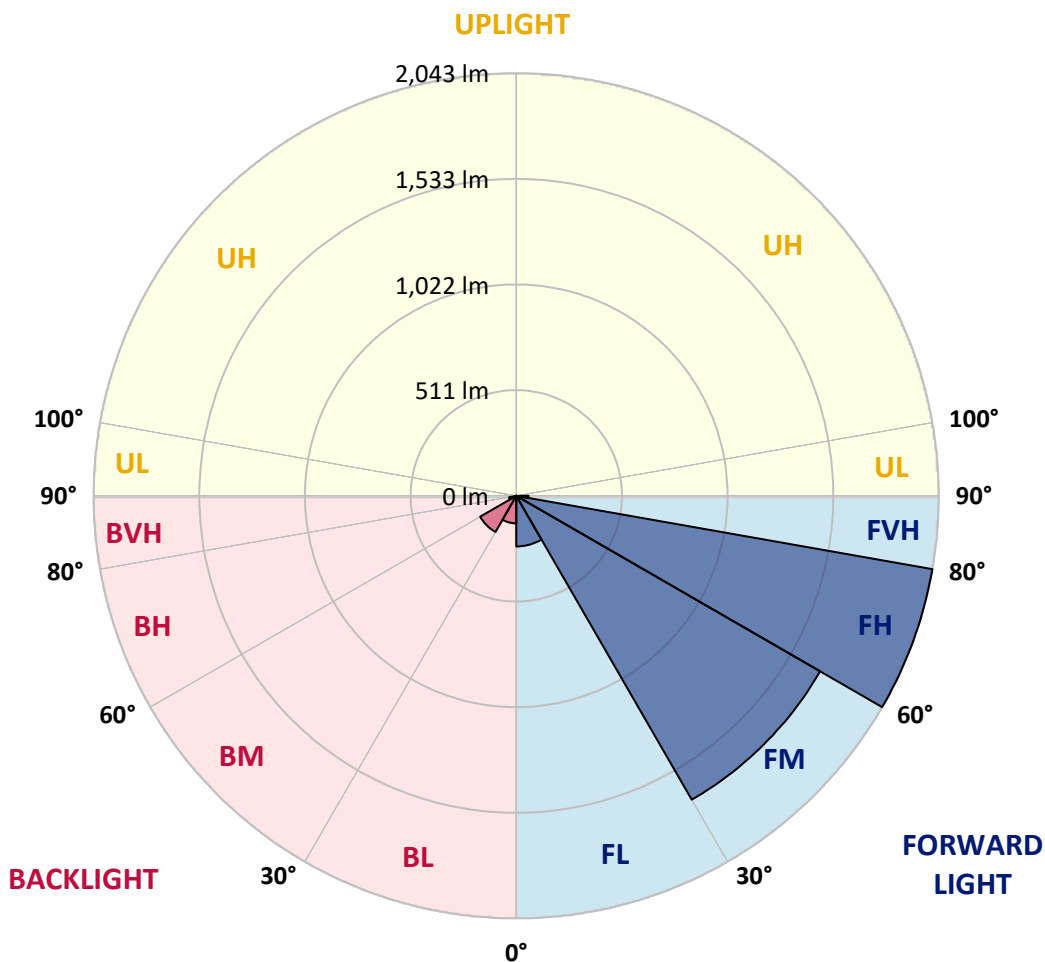


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.6	5.5			
FM (30°-60°)	1696.5	38.4			
FH (60°-80°)	2043.4	46.3			G2/5000
FVH (80°-90°)	59.6	1.3			G1/100
BL (0°-30°)	133.2	3.0	B1/500		
BM (30°-60°)	201.7	4.6	B0/220		
BH (60°-80°)	34.6	0.8	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	658.3	665.1	664.1	666.4	672.2	674.6	681.0	688.1	698.0	704.7	709.2
5°	589.5	594.6	595.3	607.1	612.9	619.4	638.3	659.0	682.0	700.3	712.5
7.5°	516.0	518.7	524.1	539.7	554.3	560.7	589.5	625.5	661.7	695.9	717.9
10°	455.4	458.4	468.2	484.8	498.4	506.8	546.8	591.9	642.7	693.5	725.8
12.5°	420.8	422.5	426.2	441.1	458.4	467.5	510.6	562.1	627.5	694.5	738.9
15°	418.4	417.7	413.3	419.5	435.0	444.5	486.6	541.8	614.0	698.0	754.5
17.5°	431.0	429.2	418.7	418.7	431.7	439.4	476.4	530.9	607.1	705.7	776.6
20°	450.3	447.6	430.3	428.9	441.5	449.6	482.5	531.6	608.5	720.3	806.0
22.5°	474.7	471.6	445.5	446.2	459.8	467.9	500.1	543.8	617.0	738.3	837.5
25°	506.5	503.2	472.3	471.0	485.1	492.3	526.2	565.5	628.8	760.6	878.8
27.5°	548.9	541.8	504.8	502.8	518.0	527.2	557.7	594.6	649.8	791.5	934.4
30°	583.8	576.0	540.7	535.3	551.5	558.7	590.2	633.9	691.2	845.3	1011.3
32.5°	629.5	618.0	576.7	562.4	579.7	588.8	637.3	707.1	752.5	902.3	1102.9
35°	732.5	725.4	674.9	625.1	624.1	635.6	706.7	781.0	815.5	991.0	1227.5
37.5°	879.9	874.8	821.3	754.5	735.2	729.8	791.1	862.2	916.1	1113.0	1372.5
40°	1051.0	1039.1	990.0	933.4	908.4	892.4	890.7	983.2	1047.6	1278.6	1523.6
42.5°	1173.6	1151.9	1092.3	1088.2	1082.8	1066.2	1018.1	1160.1	1217.3	1456.8	1685.3
45°	1302.4	1269.5	1180.8	1165.5	1163.5	1162.4	1210.6	1369.5	1402.4	1650.0	1851.2
47.5°	1402.4	1376.2	1303.4	1296.6	1305.1	1328.1	1465.0	1591.7	1584.9	1822.1	1990.5
50°	1535.5	1515.8	1434.8	1447.7	1491.5	1529.0	1752.0	1833.9	1735.0	1957.7	2091.8
52.5°	1692.7	1656.4	1581.2	1616.1	1683.2	1745.9	2056.5	2046.1	1840.4	2059.6	2167.3
55°	1828.9	1803.2	1777.4	1813.7	1914.0	1992.2	2331.7	2204.9	1916.9	2141.6	2200.5
57.5°	2059.3	2053.2	2026.7	2063.7	2185.3	2266.6	2578.0	2328.3	1966.1	2184.3	2161.6
60°	2400.1	2390.3	2341.2	2388.2	2546.8	2674.6	2805.0	2439.0	1977.3	2167.7	2049.4
62.5°	2810.1	2776.5	2734.5	2804.0	3021.5	3077.7	3018.8	2504.8	1935.6	2035.6	1779.1
65°	3192.9	3158.4	3159.4	3305.7	3542.6	3580.9	3268.2	2495.0	1813.7	1704.5	1312.2
67.5°	3486.0	3480.2	3521.5	3807.2	4116.9	4090.5	3491.1	2347.9	1452.2	1104.9	697.3
70°	3500.9	3512.1	3630.7	4112.8	4427.2	4385.2	3472.1	1908.5	905.3	508.2	274.8
71°	3320.6	3395.9	3559.8	4103.3	4445.5	4391.0	3312.2	1598.5	664.1	354.4	198.2
72.5°	2829.8	2869.4	3223.8	3861.8	4300.9	4184.3	2906.7	1120.5	425.2	216.8	113.8
75°	1558.5	1656.1	2158.9	3029.7	3440.0	3337.6	1894.3	532.3	212.1	118.5	47.1
77.5°	742.0	723.0	1053.4	1801.8	2332.3	2326.9	954.4	236.5	123.6	80.3	23.7
80°	212.1	238.5	403.2	856.5	1294.9	1309.2	366.6	114.2	85.7	62.7	12.2
82.5°	64.0	65.4	148.1	378.8	644.1	607.1	137.6	58.3	61.7	49.8	7.1
85°	11.2	13.9	43.7	133.5	245.6	186.4	34.5	27.8	40.6	32.9	4.1
87.5°	0.7	1.0	14.6	15.3	21.7	12.5	6.1	4.1	8.8	8.8	2.3
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°	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8	709.8
2.5°	712.1	714.2	712.8	709.8	704.7	698.6	690.5	683.7	677.9	674.9	678.6
5°	716.6	719.3	712.5	697.3	674.2	649.2	620.7	598.7	581.4	576.0	573.9
7.5°	723.3	725.1	706.7	672.9	624.1	564.8	512.9	469.3	435.3	425.2	410.3
10°	732.2	731.2	696.6	633.6	547.9	458.8	378.4	318.8	273.7	257.5	256.1
12.5°	745.7	740.3	683.7	580.0	457.0	340.5	241.2	188.7	160.3	150.8	148.8
15°	762.6	749.8	663.4	517.3	350.0	219.9	148.8	132.8	129.1	128.4	127.7
17.5°	782.6	762.3	636.7	440.4	245.9	142.7	124.3	124.0	124.3	123.6	123.3
20°	809.8	775.6	604.8	349.3	162.6	120.3	118.5	118.5	118.9	118.5	118.5
22.5°	838.5	791.1	565.5	266.6	122.6	114.2	113.8	114.6	115.2	114.9	114.9
25°	874.1	811.4	513.6	182.6	109.8	109.1	109.5	110.8	112.1	112.5	112.1
27.5°	925.7	836.5	458.1	125.7	100.6	101.3	104.7	108.1	110.1	110.5	110.5
30°	983.5	864.3	385.5	101.9	93.2	93.2	97.2	103.7	108.1	108.8	109.1
32.5°	1058.1	896.5	305.3	91.8	86.1	85.3	89.1	96.9	105.0	107.4	107.4
35°	1150.2	934.4	227.0	85.3	81.0	79.3	81.3	87.8	98.3	105.0	105.7
37.5°	1258.4	970.4	166.0	79.6	76.3	73.8	75.2	80.3	88.8	98.9	101.6
40°	1358.3	1002.2	124.0	74.9	71.5	69.8	70.8	73.2	80.3	89.8	91.5
42.5°	1467.3	1026.9	98.6	69.8	66.7	66.1	66.1	67.1	71.8	77.3	77.6
45°	1576.1	1035.8	82.7	63.7	61.7	62.3	62.0	61.3	63.3	62.7	62.7
47.5°	1653.7	1025.3	68.4	57.9	57.9	59.0	57.2	54.9	53.9	49.8	50.1
50°	1706.9	987.0	56.2	51.1	53.9	55.2	51.8	48.1	44.4	40.0	39.0
52.5°	1728.9	918.9	46.0	42.4	47.8	49.5	45.4	41.0	35.2	31.5	30.5
55°	1714.7	834.8	38.3	34.5	40.3	42.4	38.3	33.2	26.8	22.7	22.0
57.5°	1652.1	734.5	32.5	27.4	32.2	33.5	30.9	25.4	18.9	14.9	14.9
60°	1543.6	630.9	26.5	21.7	24.0	26.1	23.4	18.3	12.8	9.2	8.5
62.5°	1323.7	512.3	21.4	16.9	16.9	18.6	16.3	13.2	8.1	4.8	4.4
65°	955.8	351.3	16.9	12.5	12.2	12.2	10.2	8.8	4.8	2.0	1.3
67.5°	519.4	198.2	13.5	9.5	8.5	8.1	6.4	5.1	2.0	0.3	0.0
70°	204.3	76.3	10.5	6.4	5.4	5.1	3.4	2.3	1.3	0.0	0.0
71°	138.6	52.5	9.2	5.4	4.4	3.8	2.7	2.0	1.0	0.0	0.0
72.5°	79.3	32.5	7.1	4.1	3.4	2.7	2.0	1.3	1.0	0.0	0.0
75°	34.5	16.6	4.4	3.1	2.3	1.7	1.3	1.0	0.3	0.0	0.0
77.5°	17.6	9.2	3.1	2.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0
80°	9.8	4.8	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
82.5°	5.4	2.7	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.7	0.0	0.0	0.0	0.0	0.3	0.3	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)