

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: P458627

Luminaire Tested: **GALN-SA1D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5275 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): 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

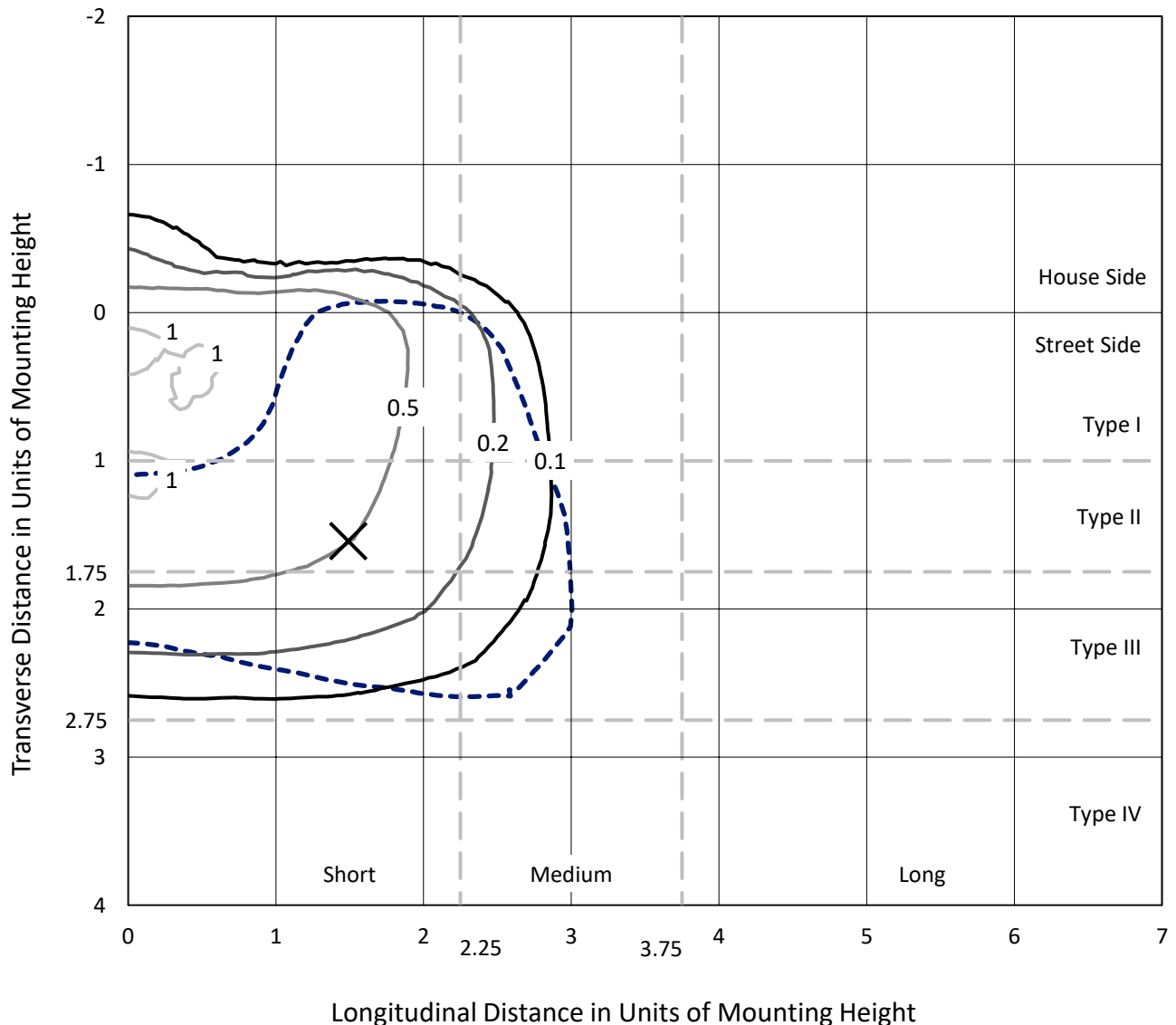




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Iso-Footcandle Lines of Horizontal Illumination

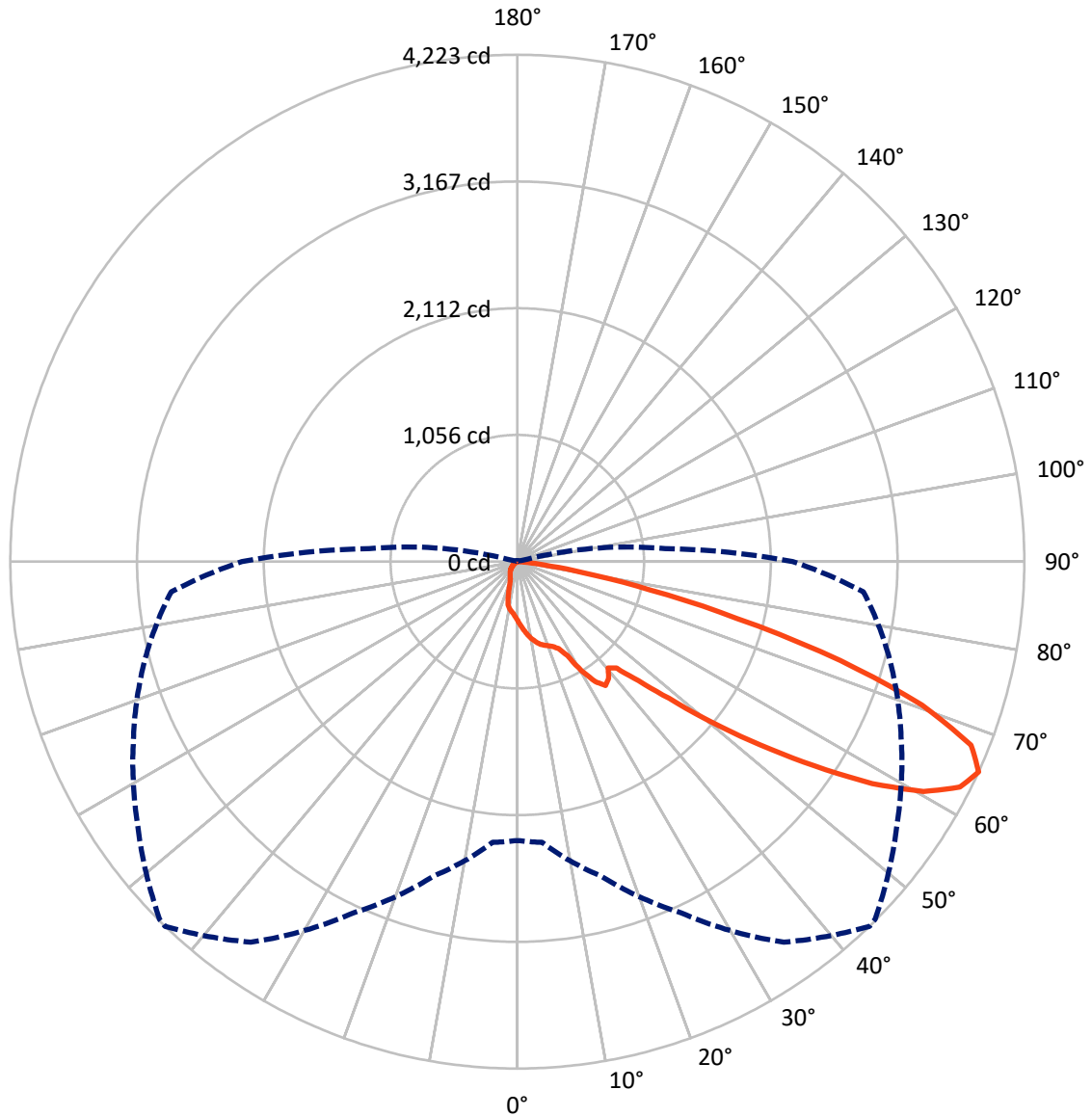
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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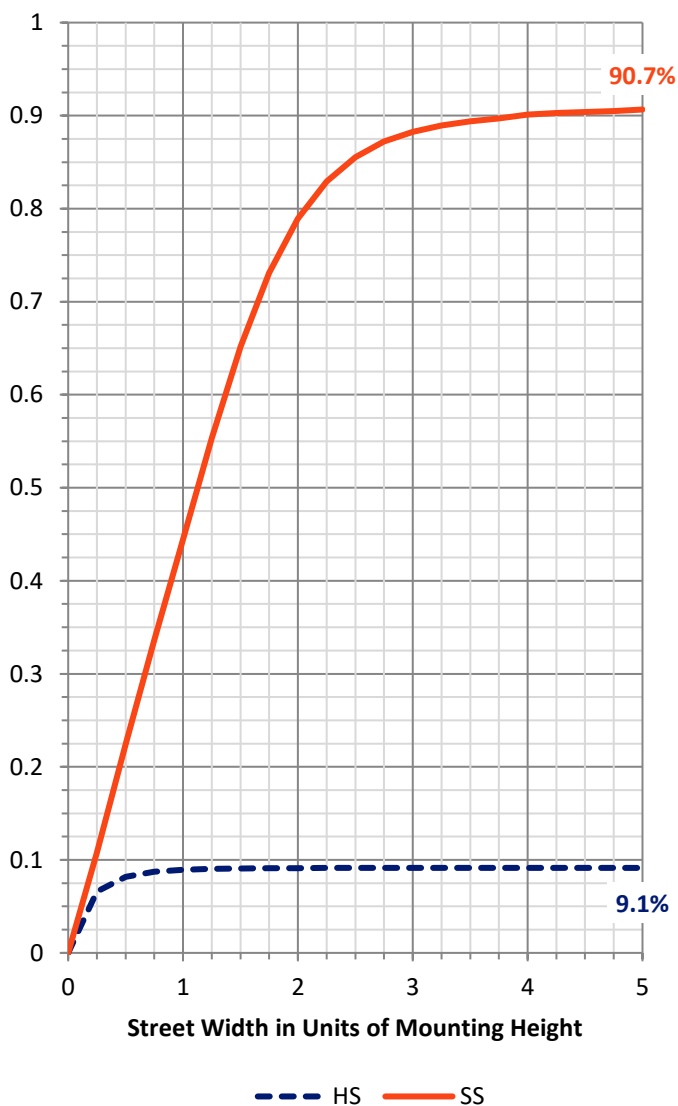
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.0	0.0	486.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4789.0	0.0	4789.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	5275.0	0.0	5275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	0.9
10°-20°	147.0	2.8
20°-30°	249.2	4.7
30°-40°	414.3	7.9
40°-50°	723.4	13.7
50°-60°	1413.3	26.8
60°-70°	1639.8	31.1
70°-80°	597.1	11.3
80°-90°	42.1	0.8
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°	5275.0	100.0
0°-180°	5275.0	100.0

Coefficient of Utilization

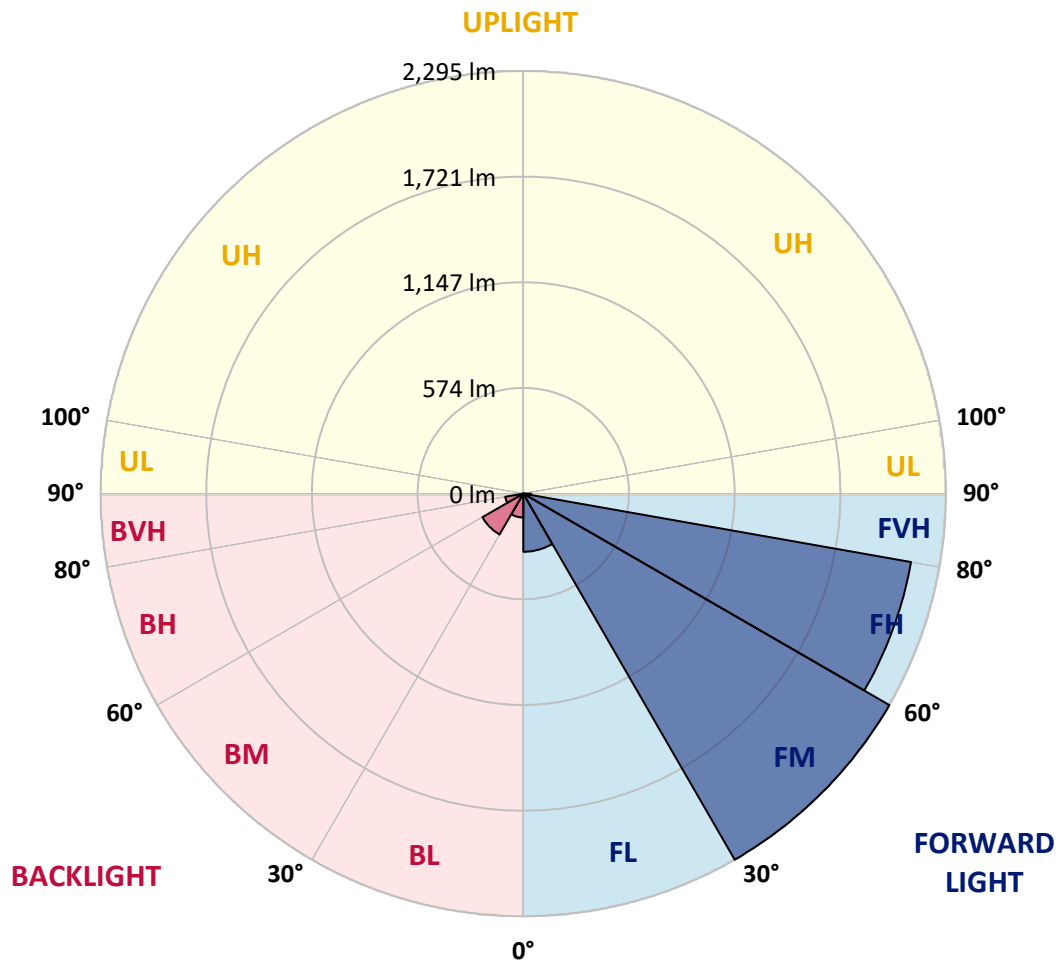


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.5	6.0			
FM (30°-60°)	2294.6	43.5			
FH (60°-80°)	2137.4	40.5			G2/5000
FVH (80°-90°)	41.5	0.8			G1/100
BL (0°-30°)	129.5	2.5	B1/500		
BM (30°-60°)	256.4	4.9	B1/1000		
BH (60°-80°)	99.5	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	552.6	550.2	549.0	542.5	537.7	531.7	531.7	524.0	515.1	505.5	496.6
5°	614.3	610.3	605.0	599.4	588.1	572.0	572.0	555.8	537.3	520.8	502.6
7.5°	673.5	669.9	661.0	650.2	631.6	614.7	613.5	590.1	567.9	542.9	517.1
10°	725.5	722.7	715.1	694.1	674.7	652.6	652.2	626.0	600.2	569.5	537.7
12.5°	761.8	762.2	752.1	732.0	707.0	686.0	684.4	658.6	631.6	598.6	559.5
15°	787.6	787.6	777.1	754.6	732.0	713.4	711.8	689.3	661.4	625.6	583.2
17.5°	794.9	797.3	786.0	765.8	747.7	731.6	731.2	712.2	690.1	655.4	607.4
20°	792.0	794.5	785.6	769.9	757.4	748.1	746.9	739.2	718.7	686.0	633.2
22.5°	786.0	788.4	782.0	772.7	766.6	769.5	767.5	773.9	763.0	723.5	663.9
25°	787.2	789.6	784.8	779.5	784.8	802.1	807.4	835.2	825.5	771.1	696.9
27.5°	825.1	829.9	823.1	825.5	844.0	884.3	894.4	942.4	899.7	831.5	748.5
30°	909.3	906.1	893.2	904.9	969.4	1054.8	1052.0	1044.4	977.5	901.3	809.8
32.5°	985.9	983.1	982.3	1032.7	1149.6	1191.1	1189.1	1114.9	1047.2	981.1	870.2
35°	1017.0	1006.1	1003.7	1125.8	1321.3	1266.5	1254.0	1143.9	1131.8	1068.1	931.9
37.5°	1110.5	1102.8	1065.3	1141.1	1252.8	1234.6	1224.9	1193.9	1222.1	1145.1	1001.6
40°	1303.1	1281.8	1247.9	1173.8	1155.6	1163.3	1172.9	1258.0	1328.9	1250.3	1094.8
42.5°	1542.6	1537.7	1474.9	1336.6	1200.8	1211.2	1223.7	1391.8	1482.5	1408.7	1246.7
45°	1830.0	1836.8	1746.1	1582.9	1404.7	1413.6	1431.7	1589.3	1690.5	1655.0	1485.7
47.5°	2091.2	2085.9	2055.3	1885.6	1721.1	1701.4	1730.8	1842.9	1978.3	1983.9	1782.4
50°	2354.0	2381.8	2336.2	2269.7	2147.6	2106.1	2095.2	2150.0	2356.4	2329.4	2138.7
52.5°	2731.6	2746.1	2660.7	2643.8	2671.6	2537.0	2526.1	2539.4	2724.0	2631.3	2405.6
55°	2969.0	2960.6	2928.7	3061.0	3171.0	3002.9	2989.2	2935.6	3029.1	2844.5	2662.3
57.5°	3044.0	3056.1	3130.3	3369.3	3629.7	3487.0	3462.0	3309.6	3249.2	3043.2	2898.5
60°	3010.6	3032.7	3192.8	3548.3	3909.4	3888.1	3866.7	3610.7	3407.2	3209.3	3064.2
62.5°	2772.3	2803.4	3059.3	3516.4	4004.1	4137.6	4111.0	3798.6	3512.4	3289.9	3093.2
65°	2323.3	2346.3	2713.9	3227.4	3869.5	4223.0	4213.3	3857.4	3528.9	3216.1	2894.5
67.5°	1656.2	1734.4	2075.0	2719.9	3471.3	4077.1	4093.6	3786.9	3373.7	2897.3	2397.1
70°	1041.1	1094.3	1338.6	1947.3	2782.8	3576.9	3631.3	3464.0	2927.9	2258.4	1604.6
72.5°	496.6	536.1	710.2	1232.6	1964.2	2814.3	2857.4	2843.7	2264.1	1422.9	827.9
75°	221.3	236.2	339.0	629.2	1268.1	1891.6	2003.3	2021.8	1414.8	696.1	322.1
77.5°	112.9	113.3	158.8	304.7	633.2	1128.6	1150.8	1215.7	767.1	306.7	112.1
80°	60.1	64.1	84.2	143.9	328.5	555.8	553.0	607.8	340.2	150.3	37.5
82.5°	27.0	29.8	47.6	75.4	160.4	210.8	227.3	248.7	145.9	95.9	16.5
85°	8.1	9.7	23.4	37.9	58.0	60.9	68.1	87.9	82.6	68.1	8.5
87.5°	1.2	1.2	9.7	10.5	8.5	10.9	11.3	12.5	26.6	25.0	4.4
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°	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9	490.9
2.5°	491.8	488.9	478.9	470.4	463.1	458.7	453.5	450.2	448.6	447.4	447.8
5°	493.8	486.9	469.6	455.9	445.4	434.1	426.5	422.0	420.0	416.8	416.8
7.5°	505.1	494.2	470.0	449.0	430.9	415.6	401.1	395.8	392.2	391.4	390.6
10°	521.2	507.5	474.4	445.4	419.6	398.6	378.1	359.9	345.8	337.4	336.2
12.5°	541.3	521.6	481.3	443.0	409.9	372.8	318.4	281.7	257.2	249.5	250.7
15°	559.9	538.5	488.1	441.0	392.2	309.2	247.5	205.6	193.1	191.9	192.3
17.5°	582.0	556.6	496.2	438.1	343.4	236.2	183.8	172.5	174.9	179.0	178.6
20°	605.0	576.0	505.9	421.2	274.1	177.8	162.4	163.6	167.3	170.9	171.7
22.5°	629.6	598.2	517.1	380.5	209.2	154.8	154.0	155.6	159.2	163.2	164.1
25°	663.5	626.0	525.6	327.3	158.4	143.1	144.7	147.5	150.7	155.2	156.0
27.5°	707.0	663.5	530.0	258.0	137.0	132.6	133.0	137.0	141.1	145.1	145.1
30°	763.4	708.2	521.2	195.1	126.6	122.5	120.9	123.3	128.6	132.6	133.0
32.5°	813.8	750.5	497.8	149.1	118.9	113.3	109.2	109.6	111.7	114.1	114.5
35°	864.2	791.6	457.9	125.4	110.8	104.4	98.4	95.1	93.5	92.3	93.5
37.5°	928.7	842.8	404.7	114.1	104.0	95.9	87.5	80.6	75.0	71.3	72.2
40°	1011.7	913.8	341.8	106.8	97.5	87.9	76.6	67.7	58.0	54.8	53.2
42.5°	1148.8	1021.4	275.7	100.8	91.1	79.4	65.3	53.2	44.3	41.1	41.9
45°	1365.2	1157.2	212.4	94.3	84.6	70.1	54.8	41.9	34.7	33.1	33.9
47.5°	1652.2	1333.0	163.6	87.1	76.6	60.1	43.1	33.1	28.6	28.2	27.8
50°	1922.3	1496.6	136.6	79.0	66.9	50.0	35.5	27.8	25.0	24.6	24.6
52.5°	2166.5	1613.9	111.2	69.7	56.4	41.1	29.8	24.6	22.2	21.0	21.0
55°	2383.8	1690.5	90.3	58.4	44.3	32.6	25.8	22.2	19.3	17.7	17.3
57.5°	2547.8	1699.8	67.7	46.8	33.1	25.4	22.2	19.3	16.1	14.1	13.3
60°	2618.0	1619.6	50.0	35.5	24.6	20.2	17.7	15.7	12.1	10.1	9.7
62.5°	2547.4	1463.6	37.1	27.0	18.9	14.9	12.5	11.7	8.5	6.0	5.6
65°	2294.7	1238.2	29.4	20.6	14.1	10.9	8.1	7.7	5.2	2.8	2.4
67.5°	1838.4	969.8	23.4	15.3	10.1	7.3	5.2	4.8	2.8	0.8	0.8
70°	1195.5	619.9	18.9	11.3	6.4	4.8	3.2	2.4	1.6	0.4	0.0
72.5°	591.3	289.8	15.3	8.9	4.4	2.4	1.2	0.8	1.2	0.0	0.0
75°	229.3	103.2	11.3	6.0	2.4	1.2	0.8	0.0	0.4	0.0	0.0
77.5°	76.2	34.3	6.9	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	28.2	13.3	3.6	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	5.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	3.2	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	1.6	1.2	0.8	0.4	0.0	0.0	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)