

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: P651195

Luminaire Tested: **GALN-SA1D-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4921.6 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

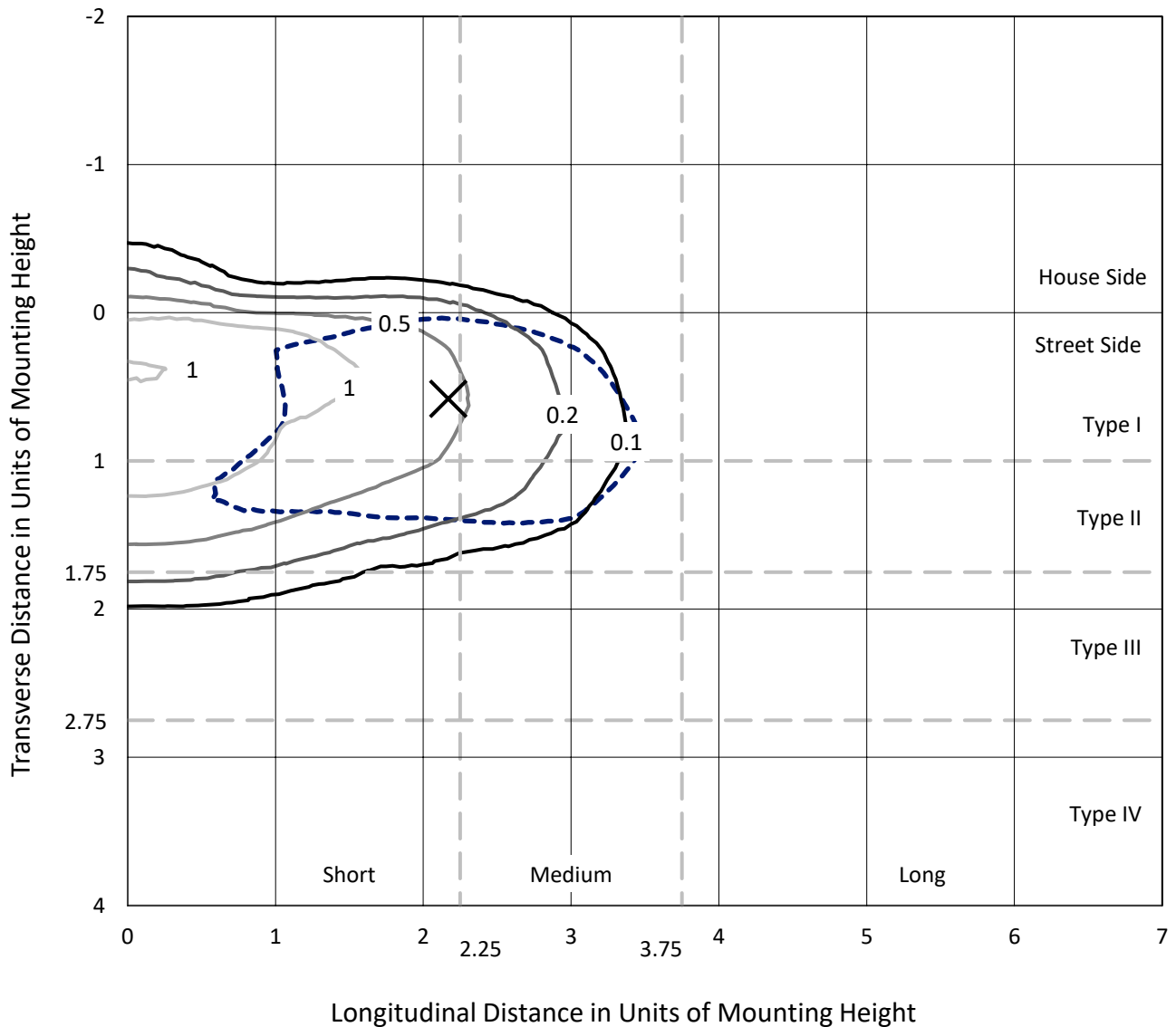
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

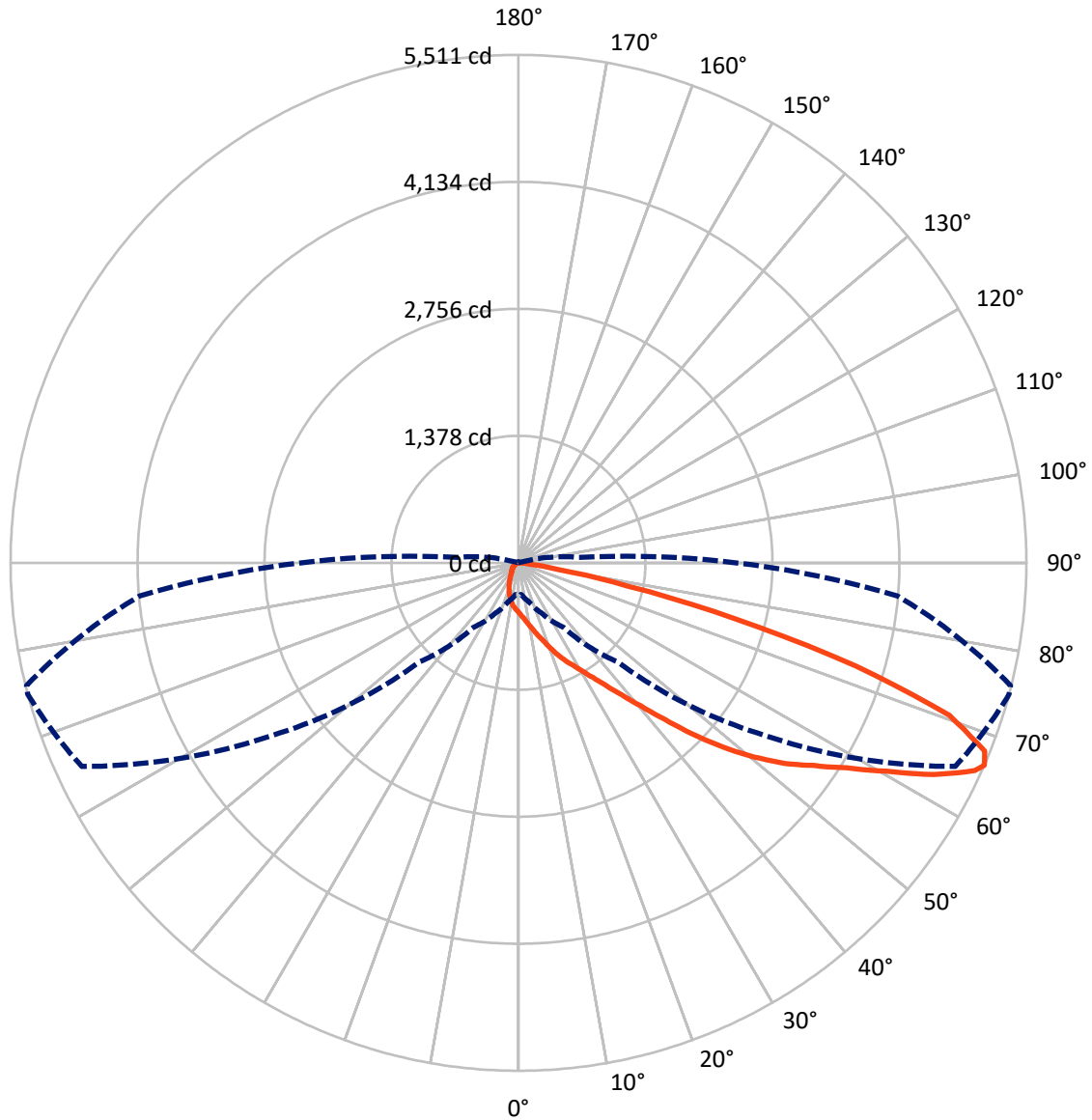
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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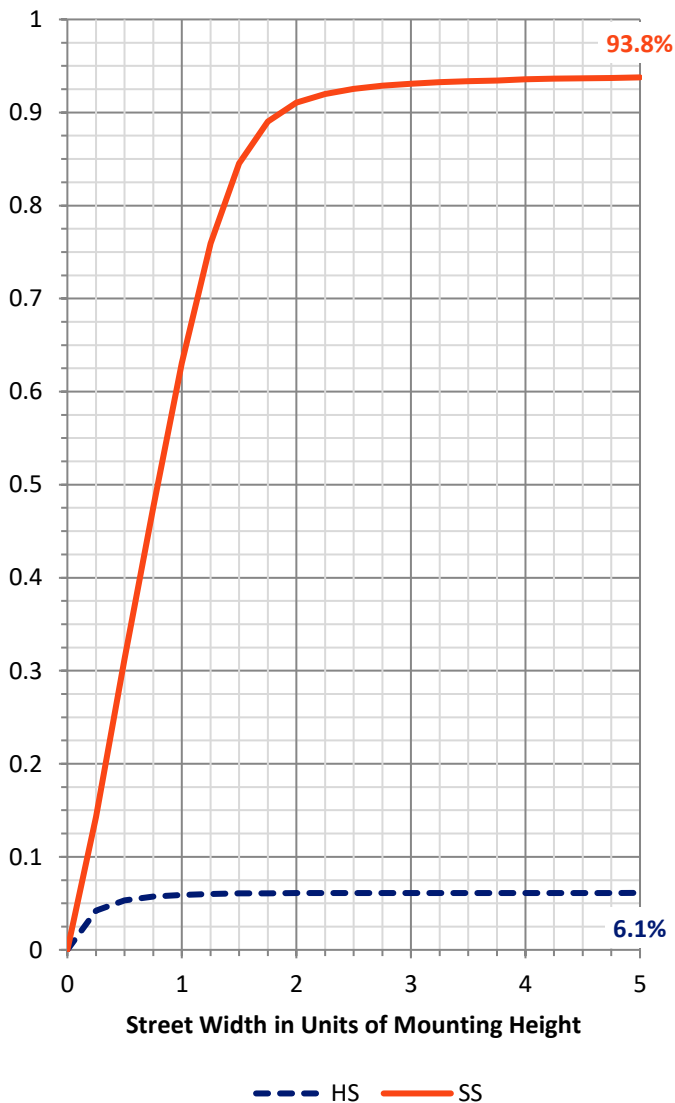
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.9	0.0	303.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4617.7	0.0	4617.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	4921.6	0.0	4921.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.1
10°-20°	152.8	3.1
20°-30°	263.8	5.4
30°-40°	475.9	9.7
40°-50°	859.7	17.5
50°-60°	1340.2	27.2
60°-70°	1273.2	25.9
70°-80°	477.2	9.7
80°-90°	26.9	0.5
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°	4921.6	100.0
0°-180°	4921.6	100.0

Coefficient of Utilization

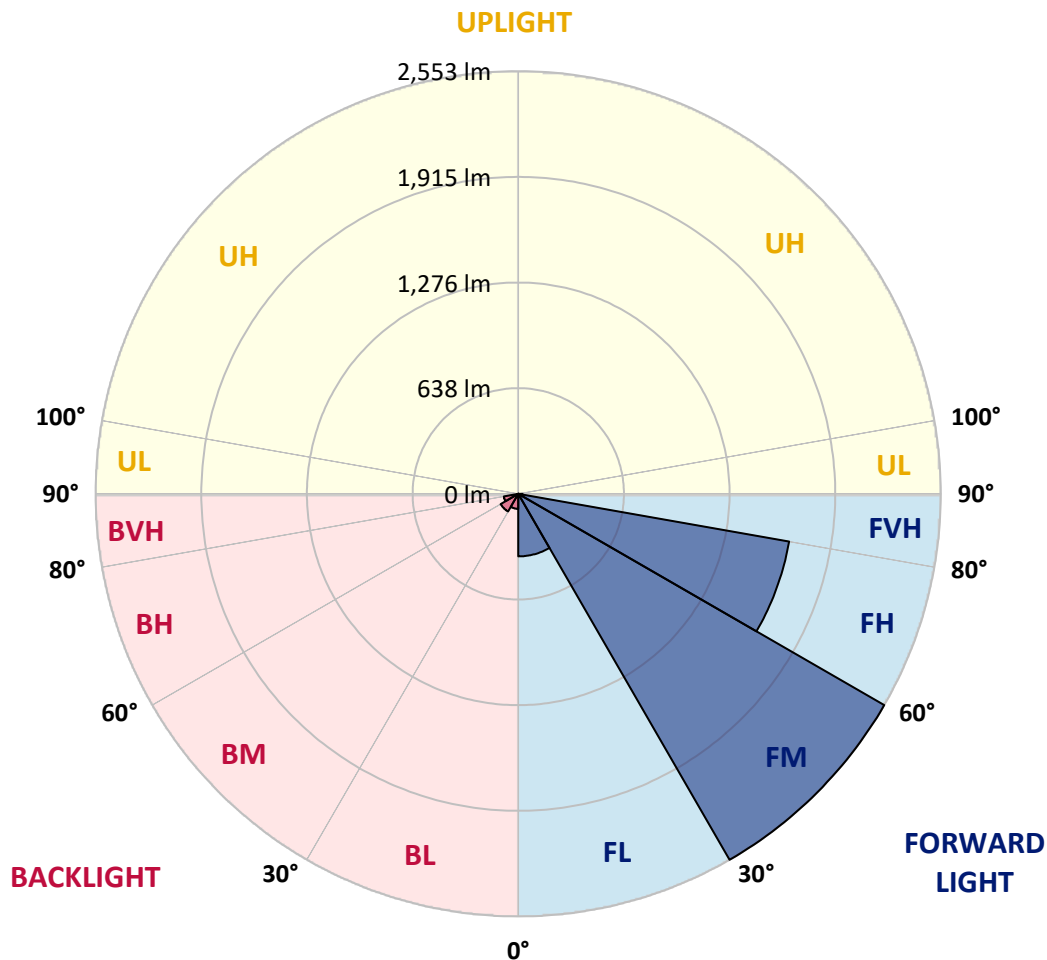


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.8	7.7			
FM (30°-60°)	2552.8	51.9			
FH (60°-80°)	1661.6	33.8			G1/1800
FVH (80°-90°)	25.5	0.5			G1/100
BL (0°-30°)	90.7	1.8	B0/110		
BM (30°-60°)	123.0	2.5	B0/220		
BH (60°-80°)	88.7	1.8	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°	75°	76°	85°
0°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	643.0	635.0	637.6	633.9	625.5	613.2	602.2	586.6	571.0	568.4	550.9
5°	727.8	725.6	722.8	712.2	706.4	687.4	664.9	637.9	605.5	599.7	568.1
7.5°	785.7	784.6	786.0	780.6	775.5	758.4	734.4	697.6	647.4	644.1	591.3
10°	804.6	807.5	813.0	821.7	829.7	824.3	806.0	760.2	701.6	692.1	617.9
12.5°	793.7	796.9	810.1	833.3	859.2	874.1	866.8	833.3	759.1	751.4	647.7
15°	765.6	769.7	788.2	824.3	870.4	912.7	930.9	906.9	826.0	813.7	683.8
17.5°	724.2	730.0	756.6	804.2	867.6	940.3	991.6	983.6	897.4	885.7	723.1
20°	692.9	697.3	719.8	774.4	855.2	955.6	1049.5	1072.1	985.5	965.5	769.3
22.5°	713.6	715.1	722.8	755.5	833.0	959.6	1100.4	1164.1	1079.0	1061.2	817.4
25°	815.2	800.6	793.0	785.7	828.2	956.0	1146.7	1260.2	1172.2	1153.2	865.0
27.5°	975.3	968.7	930.1	878.5	868.7	960.7	1177.2	1351.2	1259.8	1239.5	911.6
30°	1149.6	1138.3	1114.7	1039.0	962.9	994.2	1199.4	1439.6	1363.6	1336.6	954.2
32.5°	1309.7	1317.0	1281.7	1203.8	1115.8	1065.5	1228.2	1536.1	1482.5	1449.0	1003.6
35°	1496.4	1510.9	1456.7	1382.1	1279.2	1194.3	1284.2	1644.8	1633.6	1591.3	1080.1
37.5°	1686.0	1694.7	1661.6	1556.8	1464.0	1358.1	1389.8	1779.1	1819.5	1783.5	1171.4
40°	1845.4	1857.3	1833.0	1739.9	1640.9	1547.7	1543.0	1925.5	2040.8	2003.7	1307.5
42.5°	1967.3	1976.4	1977.1	1911.3	1822.1	1779.9	1738.3	2112.1	2318.0	2275.2	1465.4
45°	2121.3	2134.3	2126.6	2081.9	2015.3	2007.6	1986.2	2337.7	2650.0	2595.7	1670.3
47.5°	2359.2	2367.9	2349.0	2296.3	2228.6	2240.6	2227.8	2590.6	2988.4	2941.8	1882.5
50°	2524.4	2539.0	2565.9	2587.0	2537.9	2493.5	2455.6	2826.9	3309.8	3267.9	2099.4
52.5°	2522.6	2546.6	2631.7	2738.0	2845.4	2831.9	2723.1	3087.7	3616.5	3564.8	2303.2
55°	2352.7	2399.2	2524.4	2712.9	3010.3	3158.4	3108.8	3389.8	3881.5	3846.5	2539.3
57.5°	2001.8	2030.3	2204.2	2467.7	2918.2	3311.9	3555.7	3799.2	4199.1	4182.7	2906.2
60°	1346.4	1359.2	1583.0	1908.6	2484.4	3158.7	3883.2	4294.5	4590.3	4582.3	3334.5
62.5°	771.4	776.9	939.2	1214.0	1767.9	2676.9	3910.9	4905.5	5059.4	5063.7	3830.1
65°	415.2	418.1	549.2	712.5	1075.7	1908.0	3516.8	5240.3	5438.6	5447.0	4137.2
66°	358.4	344.6	437.1	607.4	855.9	1518.6	3267.5	5228.2	5511.4	5502.2	4126.4
67.5°	272.6	284.9	349.0	466.9	634.3	1079.7	2697.7	4995.7	5456.1	5427.6	3958.6
70°	195.0	200.2	248.5	333.0	431.9	592.4	1723.8	4149.2	4959.0	4920.8	3448.8
72.5°	125.9	131.4	176.1	240.9	312.3	323.5	965.0	2997.8	3823.2	3817.7	2597.2
75°	89.9	94.9	116.5	172.5	234.7	200.2	464.7	2020.4	2430.6	2414.2	1606.6
77.5°	65.2	67.7	77.9	112.8	167.8	143.4	215.5	1079.0	1210.0	1267.1	710.0
80°	37.5	39.7	54.2	68.8	113.5	97.9	103.0	433.0	446.5	425.0	222.0
82.5°	18.6	21.1	32.4	46.9	71.0	65.9	47.3	130.3	137.6	133.9	56.0
85°	4.4	5.5	18.2	30.9	34.6	29.4	23.0	38.2	47.3	46.3	21.4
87.5°	0.3	0.8	6.6	5.5	5.8	9.8	8.0	9.8	15.3	14.2	7.7
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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	542.9	536.1	516.0	496.4	480.0	462.9	447.2	438.2	434.5	430.5	432.4
5°	550.6	533.9	493.5	458.5	424.3	395.2	371.9	357.0	349.7	348.6	346.8
7.5°	560.8	532.0	469.4	414.9	370.1	337.7	311.2	289.6	283.1	277.3	272.6
10°	573.1	528.7	439.6	369.0	321.3	280.6	245.7	220.2	207.1	203.4	206.0
12.5°	586.3	522.6	408.3	326.8	271.8	219.8	187.4	174.7	171.1	169.5	170.0
15°	599.4	514.9	375.6	286.0	216.6	175.4	160.5	157.2	155.8	155.0	154.3
17.5°	611.3	502.6	338.8	246.3	175.4	150.0	144.5	141.5	138.7	137.6	135.7
20°	625.5	488.4	305.7	202.0	148.4	135.7	129.2	123.7	119.3	116.5	116.1
22.5°	639.0	470.2	271.1	167.4	135.4	121.9	111.3	105.5	100.4	96.8	97.9
25°	646.3	448.0	240.2	145.9	123.4	108.1	96.5	89.1	83.7	81.9	81.5
27.5°	646.3	420.7	210.0	133.6	112.4	95.7	83.7	76.8	73.2	70.6	71.0
30°	641.2	390.5	182.0	124.1	103.0	84.8	73.5	67.4	64.4	62.6	62.2
32.5°	637.2	361.7	157.9	115.0	93.2	75.4	65.5	60.8	57.9	56.0	56.0
35°	643.4	337.0	139.4	105.9	84.1	68.0	59.3	54.9	52.1	50.5	50.2
37.5°	659.8	314.4	125.2	96.0	75.7	61.9	54.9	49.9	46.9	45.2	44.4
40°	700.1	301.7	114.6	87.0	67.7	56.8	49.9	45.2	41.5	39.7	39.3
42.5°	765.0	302.0	104.5	78.6	61.5	52.4	45.5	40.0	36.0	34.2	33.8
45°	862.4	315.9	96.5	70.6	56.0	47.7	40.8	34.9	31.3	29.4	29.4
47.5°	979.3	342.8	89.5	63.7	51.0	43.3	36.0	30.2	26.6	25.1	25.1
50°	1105.9	377.8	82.6	56.4	46.6	38.6	30.9	26.2	23.3	22.2	22.2
52.5°	1235.1	419.9	75.7	50.5	41.9	33.5	26.6	23.3	20.8	20.0	19.7
55°	1404.7	473.8	68.4	44.4	36.8	28.8	23.6	20.4	17.5	16.4	16.0
57.5°	1665.6	555.0	60.4	38.9	30.2	24.1	20.4	17.1	13.8	12.0	11.6
60°	1980.4	654.0	52.1	34.2	24.4	19.7	16.4	13.1	10.2	8.0	7.7
62.5°	2275.2	716.9	44.1	28.8	19.3	14.9	11.6	9.8	7.3	5.1	4.7
65°	2405.4	695.8	36.4	23.3	15.3	10.5	7.7	6.9	4.4	2.2	1.9
66°	2362.1	664.5	33.5	21.1	13.8	9.1	6.6	5.8	3.3	1.1	1.1
67.5°	2234.4	590.6	29.1	18.2	12.0	7.3	5.1	4.4	1.9	0.3	0.0
70°	1914.5	477.8	23.0	13.5	8.7	5.1	2.9	2.2	1.1	0.0	0.0
72.5°	1470.6	355.9	18.2	10.2	6.2	2.9	1.4	0.8	1.1	0.0	0.0
75°	901.0	203.4	14.2	7.7	4.0	1.9	1.1	0.0	1.1	0.3	0.0
77.5°	399.9	91.3	9.5	5.1	2.9	1.4	0.8	0.0	0.8	0.3	0.0
80°	101.2	29.9	5.5	3.6	2.2	1.1	0.3	0.0	0.8	0.8	0.3
82.5°	27.7	10.9	4.0	2.9	1.9	1.1	0.3	0.0	0.8	0.8	0.8
85°	10.9	5.1	3.6	2.9	2.2	1.1	0.3	0.0	0.8	0.8	0.8
87.5°	5.1	3.6	3.6	3.3	2.5	1.1	0.3	0.0	0.8	0.3	0.8
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)