

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: P651677

Luminaire Tested: **GALN-SA1A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200.9 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

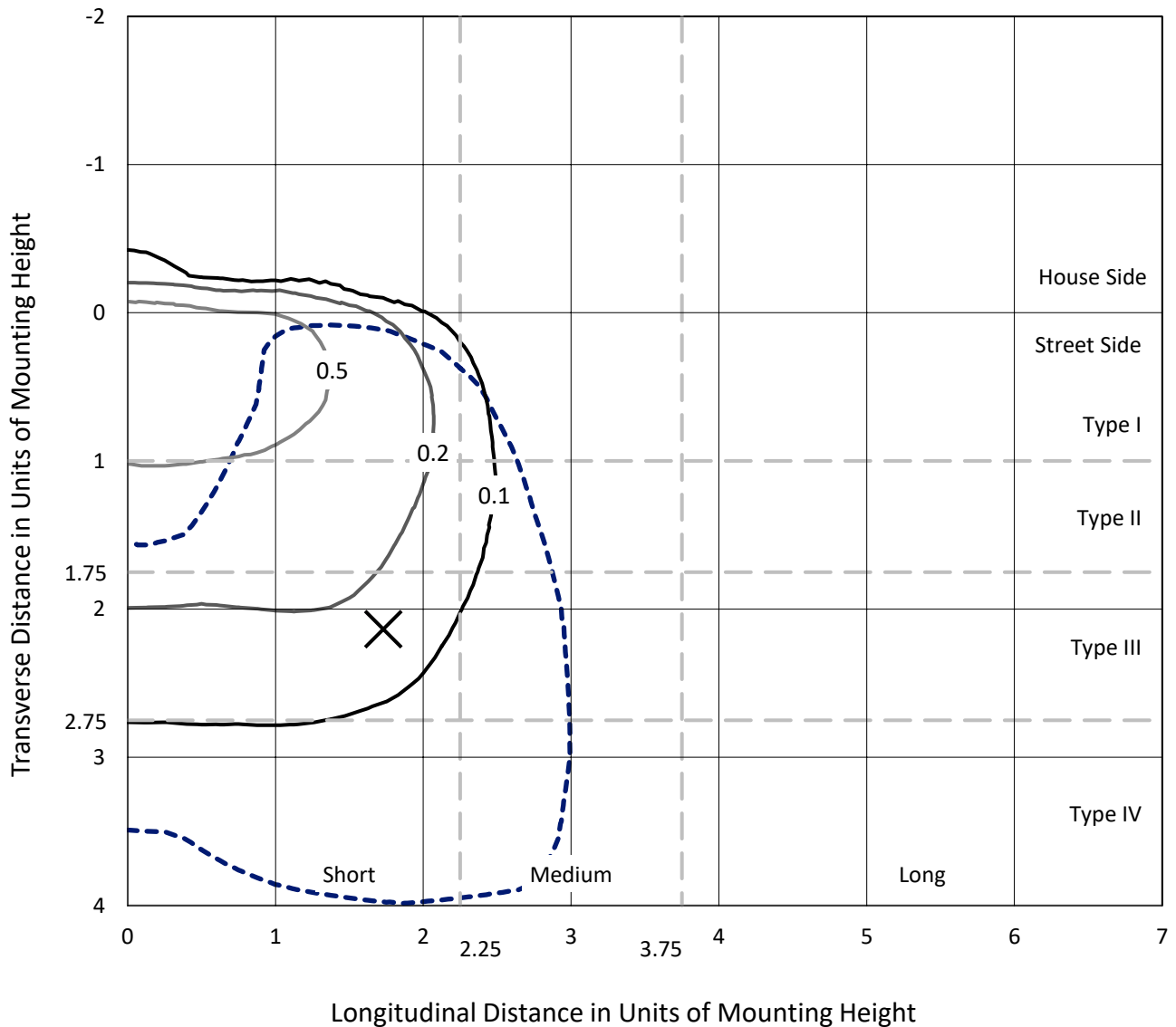
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

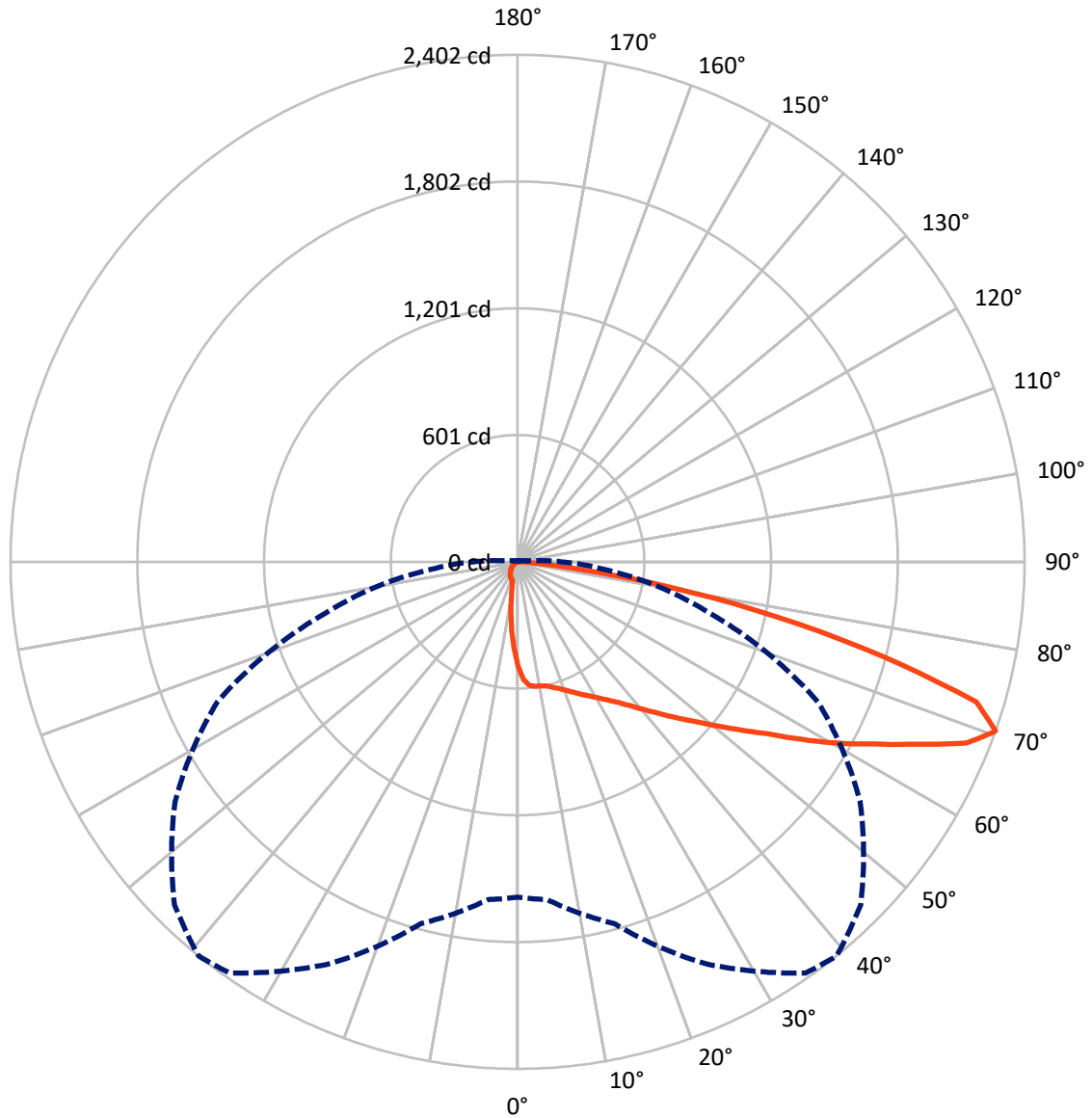
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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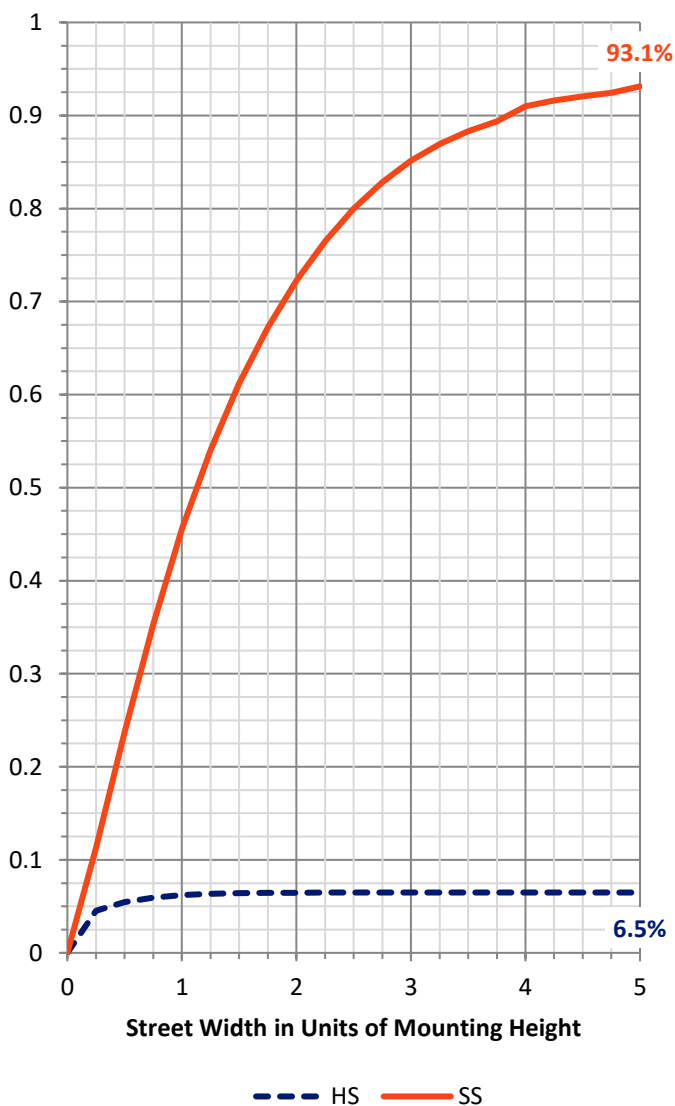
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	208.7	0.0	208.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	2992.1	0.0	2992.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	3200.9	0.0	3200.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.3
10°-20°	110.7	3.5
20°-30°	185.5	5.8
30°-40°	287.6	9.0
40°-50°	455.8	14.2
50°-60°	668.1	20.9
60°-70°	856.4	26.8
70°-80°	538.1	16.8
80°-90°	56.1	1.8
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°	3200.9	100.0
0°-180°	3200.9	100.0

Coefficient of Utilization

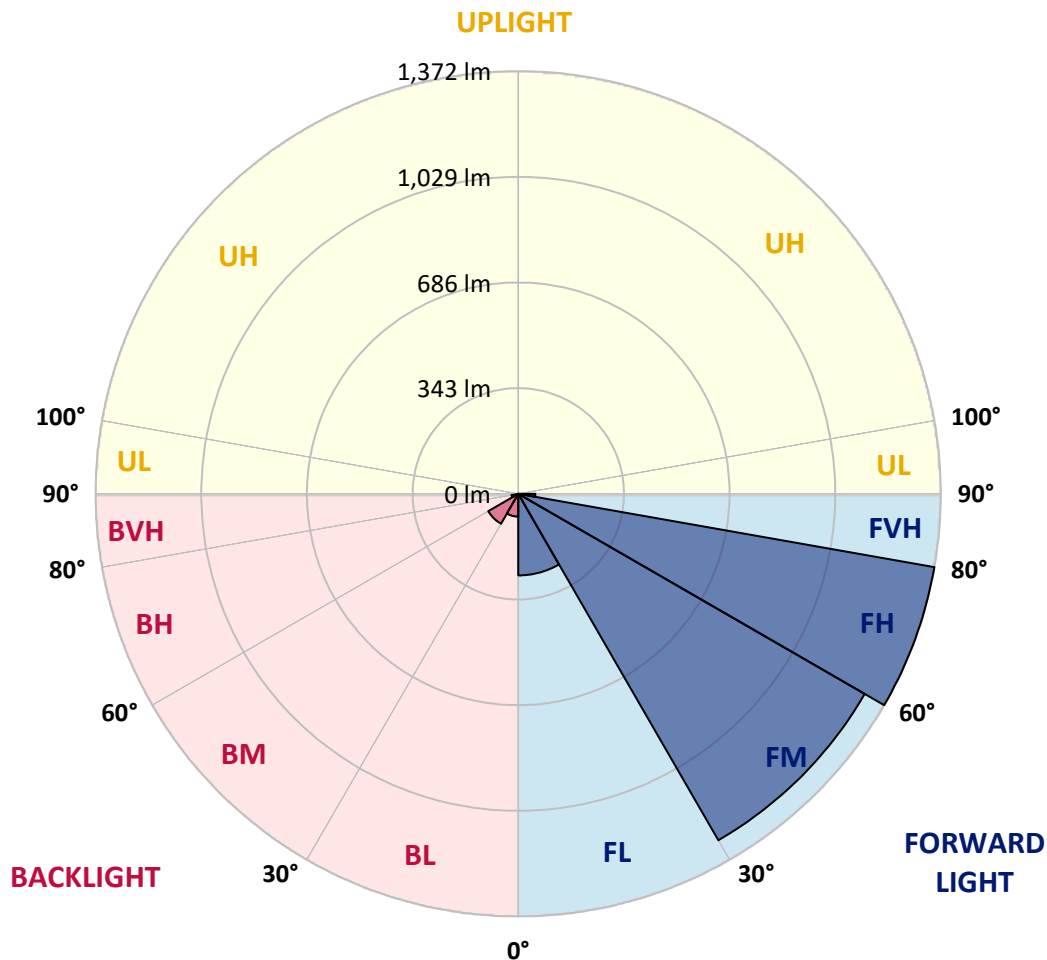


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.9	8.3			
FM (30°-60°)	1299.2	40.6			
FH (60°-80°)	1372.4	42.9			G1/1800
FVH (80°-90°)	55.6	1.7			G1/100
BL (0°-30°)	73.9	2.3	B0/110		
BM (30°-60°)	112.3	3.5	B0/220		
BH (60°-80°)	22.1	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5
2.5°	577.1	575.2	572.6	569.5	560.9	559.4	554.3	543.3	530.2	519.5	504.6
5°	604.4	605.5	603.6	598.2	591.9	588.3	581.8	564.8	547.8	526.1	501.8
7.5°	610.7	612.8	610.4	605.3	599.2	595.3	590.2	575.6	555.8	531.1	497.7
10°	610.0	612.6	611.1	606.4	601.4	597.7	592.1	580.5	564.6	538.6	499.0
12.5°	608.9	612.3	612.2	609.8	605.7	602.9	599.5	589.1	574.3	549.6	506.1
15°	605.9	610.2	614.1	616.0	616.2	616.2	611.9	601.0	586.8	564.0	515.4
17.5°	607.2	612.2	621.8	627.4	631.3	630.8	626.4	614.5	598.8	578.8	525.0
20°	615.2	621.8	635.4	646.6	650.4	649.2	643.1	629.3	611.5	591.5	534.5
22.5°	634.7	640.8	657.7	670.9	673.6	670.2	661.6	642.9	626.8	605.3	545.9
25°	664.0	671.1	686.8	696.7	696.7	694.8	682.7	660.8	644.0	624.4	560.8
27.5°	699.5	705.5	721.0	729.8	724.6	719.1	707.0	680.5	664.4	648.5	578.6
30°	735.4	739.2	755.6	759.5	754.1	747.0	734.1	707.6	693.5	681.2	604.4
32.5°	769.3	777.8	791.3	790.5	783.1	779.7	767.9	739.7	731.8	730.4	640.5
35°	803.4	809.8	821.8	824.9	818.5	817.8	809.2	788.3	788.5	796.9	696.9
37.5°	832.6	838.4	852.6	859.2	860.6	863.8	860.3	846.6	866.1	889.2	771.5
40°	857.1	865.3	883.4	895.0	908.4	920.1	920.8	923.8	963.2	1002.7	869.0
42.5°	876.3	887.7	913.9	935.4	966.0	981.0	993.1	1009.6	1075.9	1135.0	983.8
45°	901.2	914.3	947.1	980.8	1028.5	1053.3	1070.1	1114.4	1208.3	1289.0	1101.7
47.5°	942.5	949.4	982.8	1032.0	1094.8	1130.1	1162.8	1229.9	1350.6	1422.8	1199.8
50°	995.7	1000.2	1025.3	1093.7	1175.0	1221.5	1281.1	1360.0	1498.1	1533.8	1255.3
52.5°	1054.4	1055.9	1074.8	1161.7	1264.9	1323.5	1390.2	1487.6	1618.3	1613.0	1292.0
55°	1122.6	1120.4	1136.5	1235.5	1371.4	1438.3	1516.0	1618.2	1722.7	1669.1	1313.1
57.5°	1200.6	1194.8	1210.5	1333.3	1507.8	1587.8	1666.8	1730.9	1803.5	1716.2	1323.2
60°	1282.4	1270.8	1289.5	1443.2	1668.5	1744.4	1810.0	1827.2	1888.7	1753.7	1305.8
62.5°	1347.5	1347.8	1382.6	1560.3	1833.6	1900.2	1935.0	1950.4	1962.1	1745.5	1214.2
65°	1449.3	1452.7	1508.4	1722.7	2024.9	2082.5	2106.4	2056.1	1965.2	1643.9	1076.6
67.5°	1554.3	1565.2	1667.2	1946.3	2245.8	2292.2	2261.4	2076.5	1877.5	1412.3	816.3
70°	1588.5	1606.5	1774.5	2100.4	2378.3	2402.3	2298.3	1981.2	1569.6	944.3	410.8
72.5°	1455.5	1484.8	1712.8	2044.2	2293.7	2272.9	2056.2	1661.6	997.8	358.5	125.4
75°	1026.4	1039.3	1423.5	1695.8	1844.8	1785.7	1564.2	1071.2	410.4	100.7	43.1
77.5°	530.0	523.8	846.6	1125.2	1315.7	1254.4	1024.3	554.5	155.5	42.0	26.7
80°	274.0	278.5	366.3	589.5	803.2	739.1	546.1	257.0	82.8	23.2	20.4
82.5°	153.6	144.1	210.6	257.4	375.6	294.4	209.5	182.0	36.2	14.0	19.3
85°	27.9	29.3	115.5	139.2	130.4	82.8	67.5	121.5	10.5	7.7	13.5
87.5°	0.4	0.4	22.4	40.0	25.4	11.6	21.3	17.4	2.2	3.0	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°	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5	499.5
2.5°	497.1	488.9	473.7	458.6	439.4	423.7	413.2	402.3	391.1	391.9	394.5
5°	488.5	474.2	444.1	412.3	381.8	354.2	327.1	302.8	292.9	283.9	284.3
7.5°	479.9	459.9	415.8	365.8	319.7	272.7	238.8	210.8	196.0	184.8	181.6
10°	476.0	449.5	389.7	321.1	255.5	204.4	160.7	137.8	120.3	114.6	116.1
12.5°	477.7	444.4	366.3	280.7	202.6	142.4	111.9	100.2	96.4	95.7	95.3
15°	481.0	440.7	343.3	236.0	148.9	105.8	94.0	91.8	91.4	91.0	91.2
17.5°	485.3	437.5	318.7	194.0	114.2	92.5	89.1	88.0	87.7	87.7	87.7
20°	489.5	433.9	291.5	156.6	95.3	87.3	85.2	84.5	84.4	84.4	84.1
22.5°	494.5	430.6	263.7	123.0	87.7	83.7	81.7	81.3	81.1	80.9	80.9
25°	501.6	426.6	234.2	100.7	83.0	80.2	78.3	77.9	77.6	76.8	77.0
27.5°	511.1	423.5	203.9	86.9	78.7	75.9	74.6	74.0	73.6	72.9	73.2
30°	523.9	420.9	171.6	79.4	73.8	71.4	70.1	69.7	69.3	68.6	68.6
32.5°	546.3	422.0	137.7	73.3	69.3	66.4	65.2	64.8	64.3	63.7	63.7
35°	579.9	428.2	110.1	68.2	63.9	61.1	59.8	59.8	59.1	58.3	58.1
37.5°	634.7	444.1	88.4	63.2	58.7	56.2	54.7	54.2	53.6	52.2	52.1
40°	699.5	468.9	74.4	58.3	54.0	51.4	50.1	48.9	47.1	45.8	45.6
42.5°	780.8	494.3	64.5	53.3	49.5	47.1	45.6	43.5	40.9	39.1	38.9
45°	865.6	517.6	57.9	48.9	45.2	43.2	41.5	38.1	34.8	32.7	32.5
47.5°	928.8	521.8	52.5	44.5	41.5	39.6	37.2	32.9	28.6	26.7	26.0
50°	958.7	501.0	46.9	40.2	37.8	35.7	32.7	27.8	23.0	20.7	20.2
52.5°	969.2	464.8	42.4	36.3	34.2	31.6	27.9	22.4	18.1	15.7	15.5
55°	964.9	419.2	38.3	32.7	29.9	26.9	23.2	17.8	13.4	11.4	10.9
57.5°	942.3	361.1	34.2	29.0	25.6	22.6	18.5	13.4	9.0	7.3	7.1
60°	881.5	282.0	30.1	25.0	21.7	18.5	14.6	9.5	5.6	4.1	4.1
62.5°	778.6	209.3	26.2	20.9	18.2	14.8	10.3	6.1	3.0	2.2	1.9
65°	650.7	154.4	22.0	17.7	15.3	11.6	7.3	3.6	1.5	0.7	0.4
67.5°	454.1	95.3	18.2	14.4	12.4	8.4	4.5	1.5	0.7	0.0	0.0
70°	206.3	45.4	14.0	10.9	9.5	6.1	2.4	0.8	0.4	0.0	0.0
72.5°	64.1	23.9	9.9	8.0	6.5	3.9	1.3	0.7	0.4	0.0	0.0
75°	29.7	15.3	6.2	4.3	3.6	1.9	0.8	0.4	0.3	0.0	0.0
77.5°	22.1	11.9	3.6	2.4	1.9	1.3	0.7	0.4	0.3	0.0	0.0
80°	19.3	6.1	2.2	1.5	1.1	0.8	0.4	0.3	0.0	0.0	0.0
82.5°	17.4	3.0	1.3	0.8	0.7	0.4	0.3	0.3	0.0	0.0	0.0
85°	9.5	1.7	0.8	0.7	0.4	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	0.7	0.4	0.4	0.3	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)