

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: P651678

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3808.9 lumens
Efficiency: N/A
Efficacy: 115.4 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

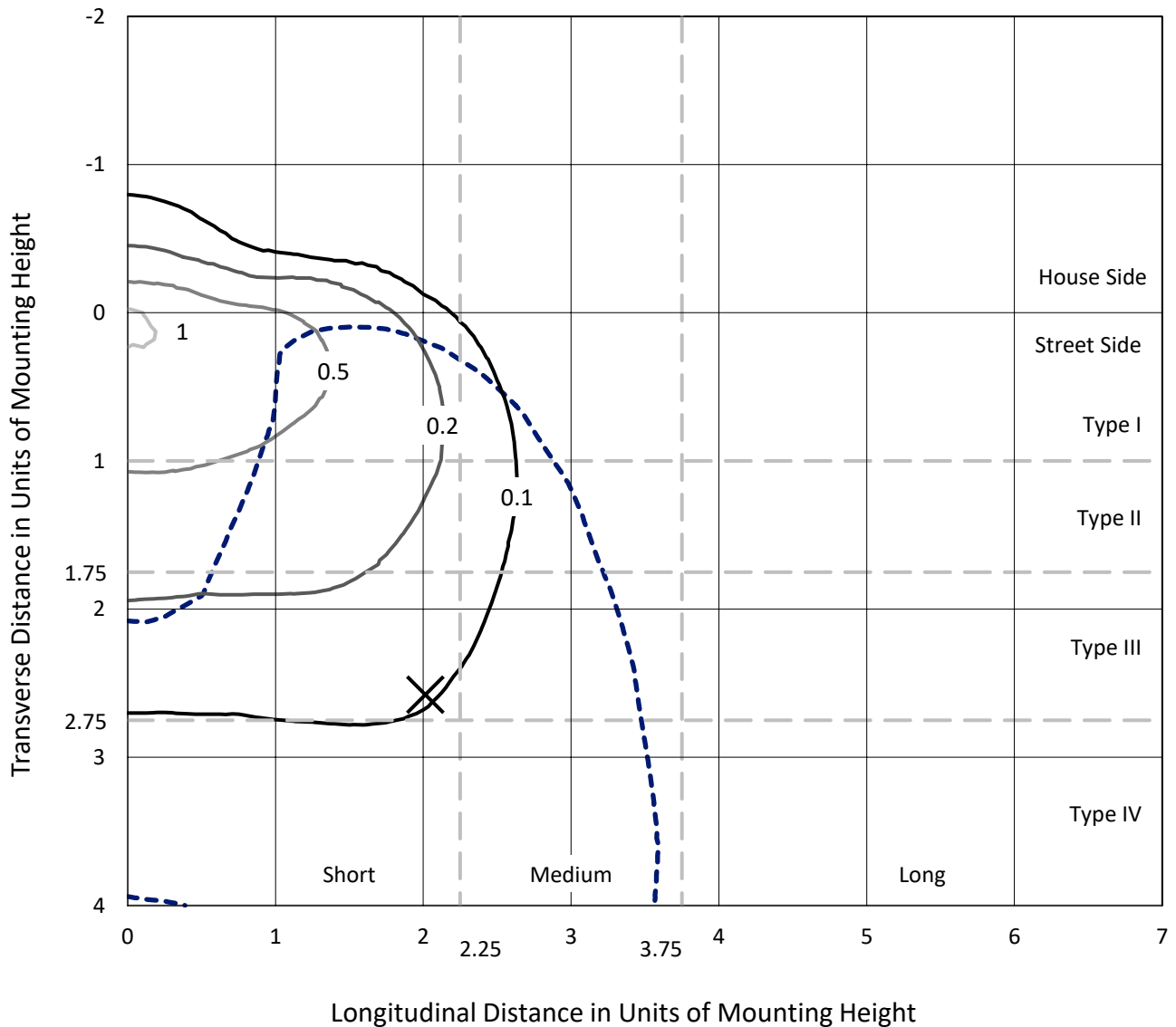
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

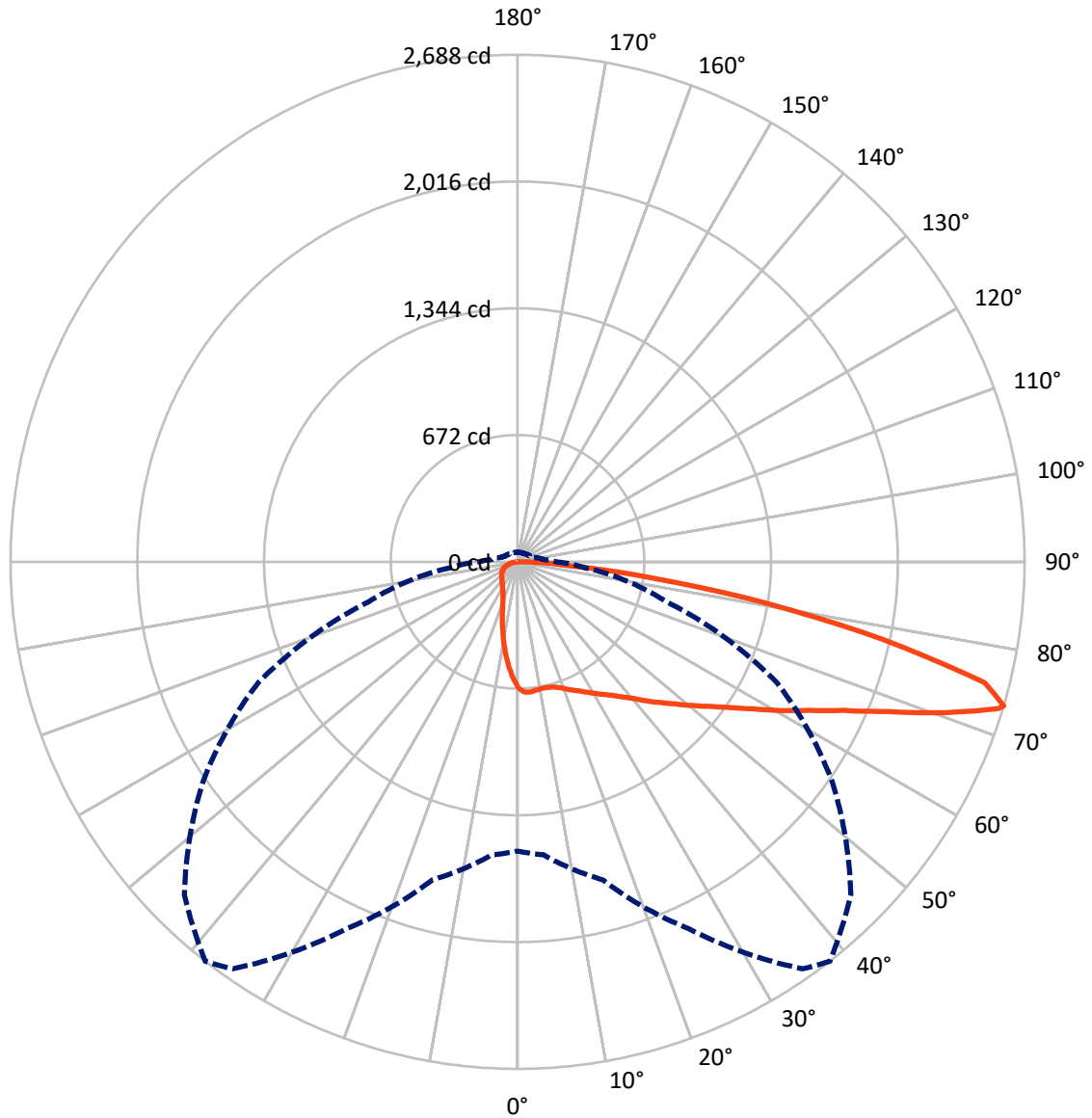
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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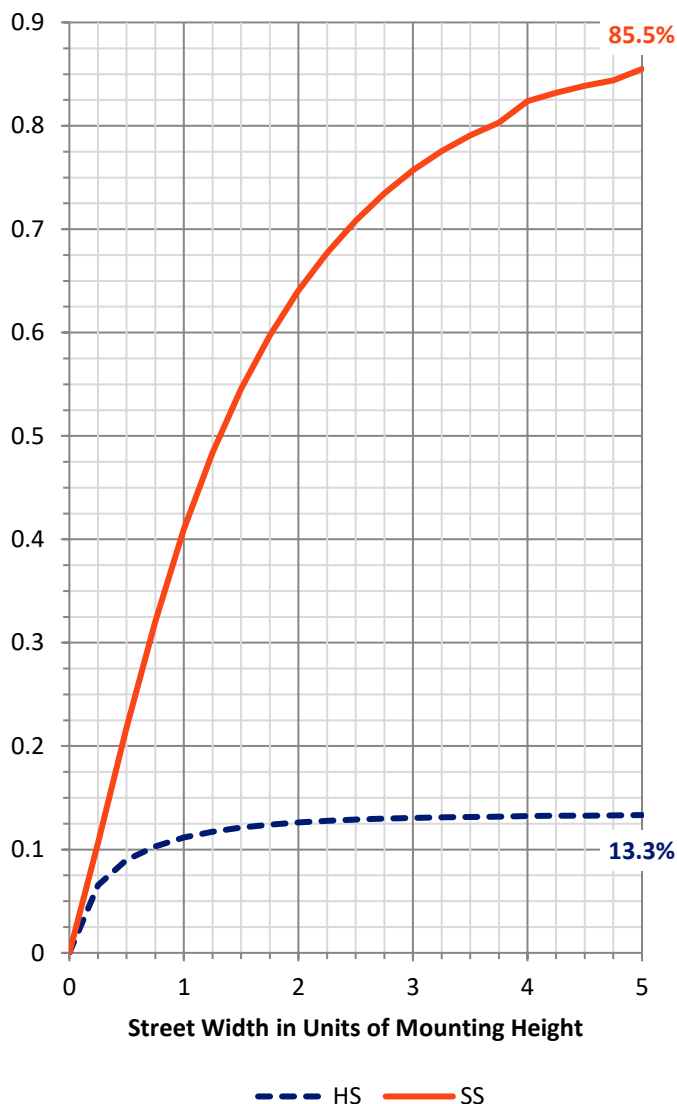
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.0	0.0	512.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3296.8	0.0	3296.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	3808.9	0.0	3808.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	149.8	3.9
20°-30°	233.2	6.1
30°-40°	342.1	9.0
40°-50°	507.5	13.3
50°-60°	719.0	18.9
60°-70°	912.1	23.9
70°-80°	759.2	19.9
80°-90°	127.6	3.3
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°	3808.9	100.0
0°-180°	3808.9	100.0

Coefficient of Utilization



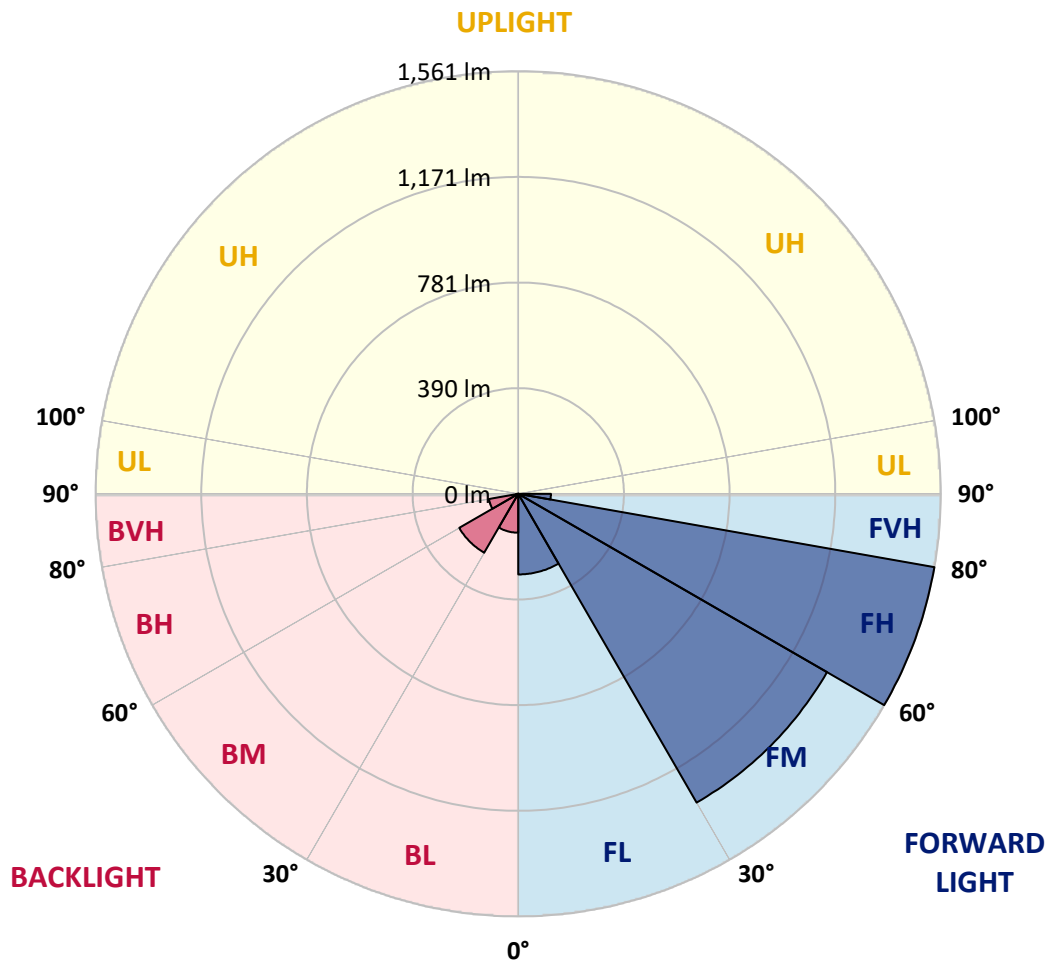
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.7	7.8			
FM (30°-60°)	1317.2	34.6			
FH (60°-80°)	1561.2	41.0			G1/1800
FVH (80°-90°)	120.6	3.2			G2/225
BL (0°-30°)	143.7	3.8	B1/500		
BM (30°-60°)	251.4	6.6	B1/1000		
BH (60°-80°)	110.1	2.9	B1/500		G1/500
BVH (80°-90°)	6.9	0.2			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°	35°	38°	45°	55°	65°	75°	85°
0°	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2
2.5°	696.0	699.5	697.8	695.4	693.9	692.4	690.2	684.0	679.0	673.6	665.3
5°	701.2	703.3	701.8	698.9	695.4	693.9	689.8	681.6	673.6	664.6	652.2
7.5°	698.2	699.0	697.4	693.7	690.6	687.9	683.1	674.1	664.4	653.5	637.1
10°	687.4	690.6	690.6	687.7	684.7	683.1	678.4	669.8	660.9	648.5	629.2
12.5°	678.6	682.1	684.8	684.0	683.8	683.8	680.1	673.6	663.4	651.5	628.5
15°	672.6	676.7	682.7	686.2	688.3	688.9	687.4	681.9	671.3	657.6	631.1
17.5°	671.3	676.2	687.3	694.8	700.4	700.1	699.7	692.0	680.4	666.2	634.3
20°	677.1	683.6	698.9	710.6	718.8	717.4	714.9	704.8	691.3	675.4	637.3
22.5°	694.5	701.2	718.0	730.9	738.8	738.8	731.8	718.4	704.0	686.2	641.4
25°	719.5	726.8	744.6	757.7	761.4	758.7	751.5	735.4	718.8	701.6	650.0
27.5°	750.0	758.8	775.4	786.4	785.3	783.1	775.8	755.2	738.7	722.9	664.6
30°	788.1	794.6	811.7	814.3	810.5	810.1	799.7	779.1	763.5	751.5	685.5
32.5°	824.0	829.8	843.6	844.7	837.8	838.6	829.0	810.1	801.2	796.9	720.6
35°	862.1	865.1	876.9	875.6	871.1	870.5	866.7	848.6	851.3	859.1	770.3
37.5°	893.9	900.0	906.6	907.7	907.5	909.6	912.2	903.6	919.7	944.0	835.4
40°	923.2	928.4	938.2	941.7	950.1	954.4	963.2	963.4	1000.6	1040.7	915.7
42.5°	943.0	951.8	970.3	976.5	996.9	1009.9	1023.0	1037.0	1090.9	1142.3	1010.3
45°	960.2	971.8	1002.6	1021.9	1049.7	1065.4	1093.1	1122.4	1200.0	1267.3	1106.4
47.5°	986.2	996.5	1031.8	1066.0	1107.9	1126.0	1167.6	1211.2	1312.7	1386.5	1198.5
50°	1022.3	1028.5	1064.5	1120.2	1173.8	1197.0	1251.8	1314.9	1433.1	1504.1	1279.4
52.5°	1068.6	1071.2	1099.8	1174.0	1244.5	1273.4	1346.0	1419.6	1538.5	1606.3	1343.5
55°	1123.2	1119.0	1141.3	1231.0	1325.4	1363.0	1441.1	1525.7	1657.1	1688.9	1390.2
57.5°	1177.2	1170.5	1188.4	1300.3	1425.2	1470.6	1561.6	1634.9	1762.9	1766.1	1422.9
60°	1234.4	1229.5	1250.7	1381.5	1547.6	1601.3	1685.4	1748.3	1865.3	1819.9	1428.0
62.5°	1293.1	1285.2	1315.5	1472.9	1685.4	1734.3	1815.8	1868.7	1965.8	1839.9	1378.3
65°	1350.1	1346.5	1393.4	1581.6	1842.5	1898.0	1977.1	2013.1	2046.2	1809.8	1255.1
67.5°	1410.8	1418.1	1492.9	1726.6	2047.2	2117.0	2202.3	2168.6	2069.2	1667.2	1057.0
70°	1503.3	1508.0	1623.7	1916.5	2311.2	2395.3	2436.5	2223.9	1958.2	1396.4	794.6
72.5°	1543.1	1563.9	1740.5	2115.9	2611.1	2662.4	2515.3	2100.6	1631.3	948.6	417.5
73°	1534.2	1559.2	1745.9	2146.2	2634.4	2688.4	2498.5	2037.2	1516.4	816.9	357.9
75°	1424.3	1455.1	1676.0	2120.8	2588.9	2556.6	2228.8	1736.2	1024.7	371.5	163.1
77.5°	1123.8	1132.7	1328.0	1712.6	2038.7	1978.9	1668.0	1085.1	418.6	138.1	92.5
80°	563.7	596.3	748.5	981.0	1363.3	1343.7	1052.8	513.2	174.4	81.1	61.3
82.5°	271.2	294.3	364.6	478.4	753.3	735.4	521.4	280.5	110.8	47.3	36.2
85°	174.7	191.8	232.1	228.2	309.7	295.8	234.2	212.3	65.6	24.7	25.1
87.5°	115.3	126.2	151.5	121.1	112.7	101.9	103.4	119.6	12.9	9.5	3.4
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°	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2	669.2
2.5°	661.9	659.0	649.8	640.8	632.2	624.0	618.6	611.5	606.8	608.0	610.0
5°	645.3	639.1	622.7	606.8	591.7	573.9	559.4	547.8	539.0	535.8	535.1
7.5°	627.9	617.3	593.9	566.6	540.9	518.8	493.2	480.5	465.7	460.5	458.8
10°	617.3	603.2	570.2	532.1	493.7	456.8	429.1	406.5	386.1	382.2	380.3
12.5°	614.3	595.6	551.3	502.2	451.0	405.9	364.8	335.1	315.3	310.8	304.1
15°	612.6	589.4	533.6	472.1	407.2	352.1	308.9	274.3	256.2	244.1	244.3
17.5°	611.1	582.2	513.9	439.3	369.3	305.9	258.1	226.9	210.3	203.9	203.3
20°	609.0	573.9	491.1	404.6	326.1	263.7	220.5	197.2	186.0	180.6	180.5
22.5°	608.0	565.7	468.7	369.3	287.8	231.2	195.5	179.1	172.1	168.5	168.5
25°	610.2	559.9	445.2	335.7	253.8	203.4	178.3	167.1	163.1	161.1	160.5
27.5°	616.9	557.3	422.0	302.2	222.6	184.5	166.7	158.9	155.9	154.4	154.7
30°	629.6	557.1	399.2	269.1	199.4	170.1	157.4	152.1	149.7	148.9	148.6
32.5°	650.0	561.8	376.9	241.8	179.8	158.1	148.9	145.0	143.9	143.2	143.1
35°	684.7	575.2	354.6	216.8	164.8	147.3	140.7	138.8	137.3	137.8	138.1
37.5°	731.3	598.2	333.6	197.2	153.4	139.4	133.8	132.0	131.2	131.9	132.5
40°	793.9	631.3	316.0	181.6	145.2	132.7	127.7	126.2	125.4	126.5	126.7
42.5°	863.0	669.6	301.3	169.3	138.5	127.2	122.4	120.7	120.0	120.7	120.9
45°	933.9	714.1	293.8	160.5	133.0	123.0	118.1	116.1	114.6	114.2	114.9
47.5°	1003.8	752.9	293.6	155.1	128.4	119.3	114.0	111.9	109.9	108.8	108.7
50°	1060.8	783.6	298.8	152.7	124.6	115.3	109.9	107.7	105.2	103.0	103.4
52.5°	1103.9	803.6	301.2	151.6	122.4	111.0	105.6	103.7	100.7	97.9	97.9
55°	1131.6	808.3	295.4	150.5	120.7	106.5	100.7	98.9	96.0	93.1	93.1
57.5°	1141.1	793.7	274.4	148.0	118.9	102.6	95.7	94.2	91.8	89.1	88.6
60°	1119.1	744.2	237.9	140.3	115.5	98.5	90.3	89.7	88.8	86.5	86.3
62.5°	1034.6	639.2	198.1	130.1	109.7	94.2	85.4	86.5	87.1	85.8	85.6
65°	893.9	519.0	169.3	116.1	101.9	88.2	80.0	82.8	84.5	84.5	84.1
67.5°	725.1	398.5	142.6	104.1	92.3	80.0	74.0	76.1	77.5	77.0	78.0
70°	515.4	270.0	116.1	90.3	80.0	70.7	66.3	66.3	65.4	64.9	64.9
72.5°	249.9	154.2	94.2	75.5	68.2	60.5	56.8	55.3	53.6	53.3	52.2
73°	208.8	138.3	89.9	72.7	65.4	59.0	54.8	52.5	51.4	50.5	50.3
75°	127.2	105.0	75.1	61.3	55.7	50.8	47.1	45.0	43.9	43.2	43.1
77.5°	83.7	78.3	58.3	46.9	42.6	39.6	38.1	35.9	35.2	34.4	34.4
80°	62.4	59.8	41.7	33.1	30.5	27.9	27.5	27.1	25.4	24.3	23.9
82.5°	40.2	42.6	28.4	22.1	19.3	17.2	17.4	18.1	16.3	14.8	14.4
85°	28.6	30.8	17.2	10.1	8.2	7.1	8.0	7.1	7.3	5.8	4.7
87.5°	4.7	8.2	3.0	1.3	0.7	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)