

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: P647772

Luminaire Tested: **GALN-SA2A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647772
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-SA2A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 5923.4 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

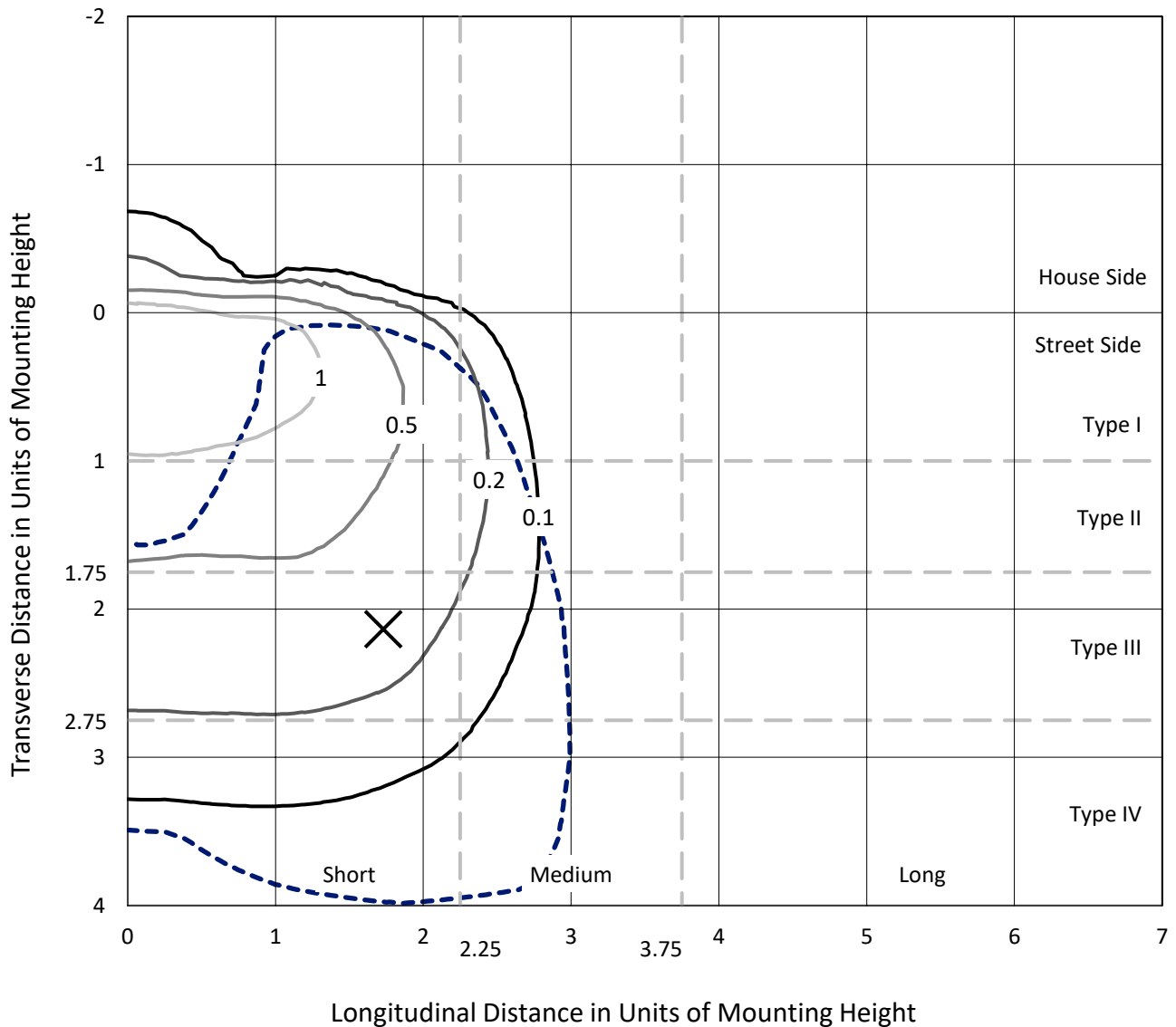
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

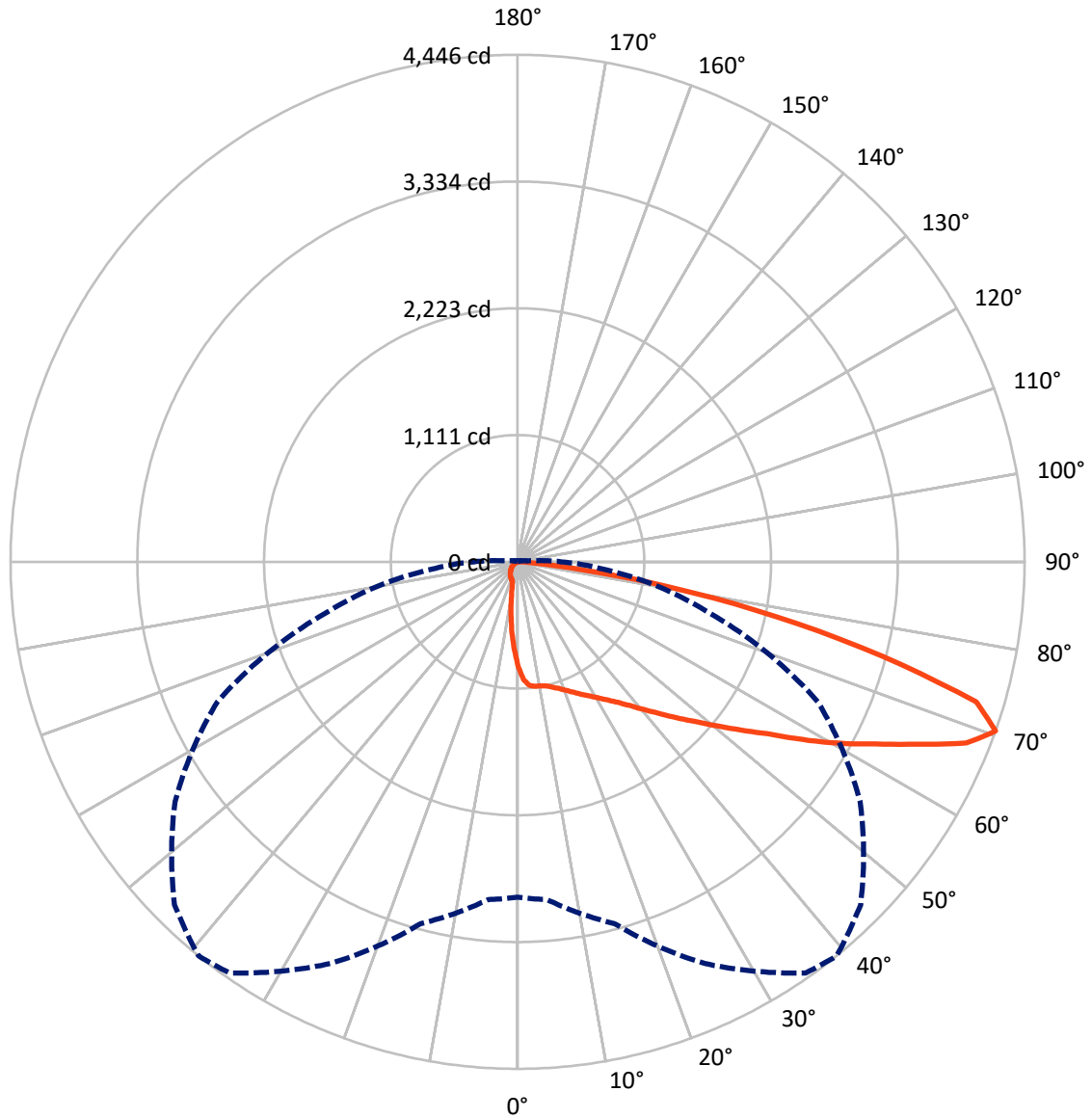
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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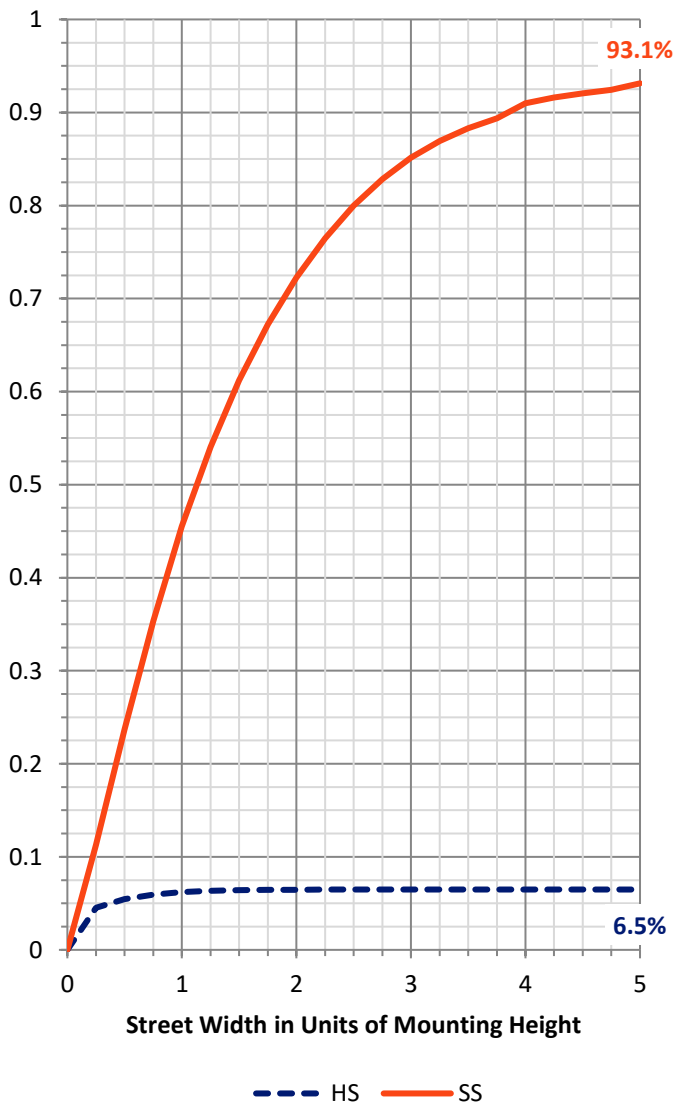
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	386.2	0.0	386.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	5537.2	0.0	5537.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	5923.4	0.0	5923.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.3
10°-20°	204.9	3.5
20°-30°	343.2	5.8
30°-40°	532.3	9.0
40°-50°	843.5	14.2
50°-60°	1236.4	20.9
60°-70°	1584.8	26.8
70°-80°	995.8	16.8
80°-90°	103.7	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°	5923.4	100.0
0°-180°	5923.4	100.0

Coefficient of Utilization



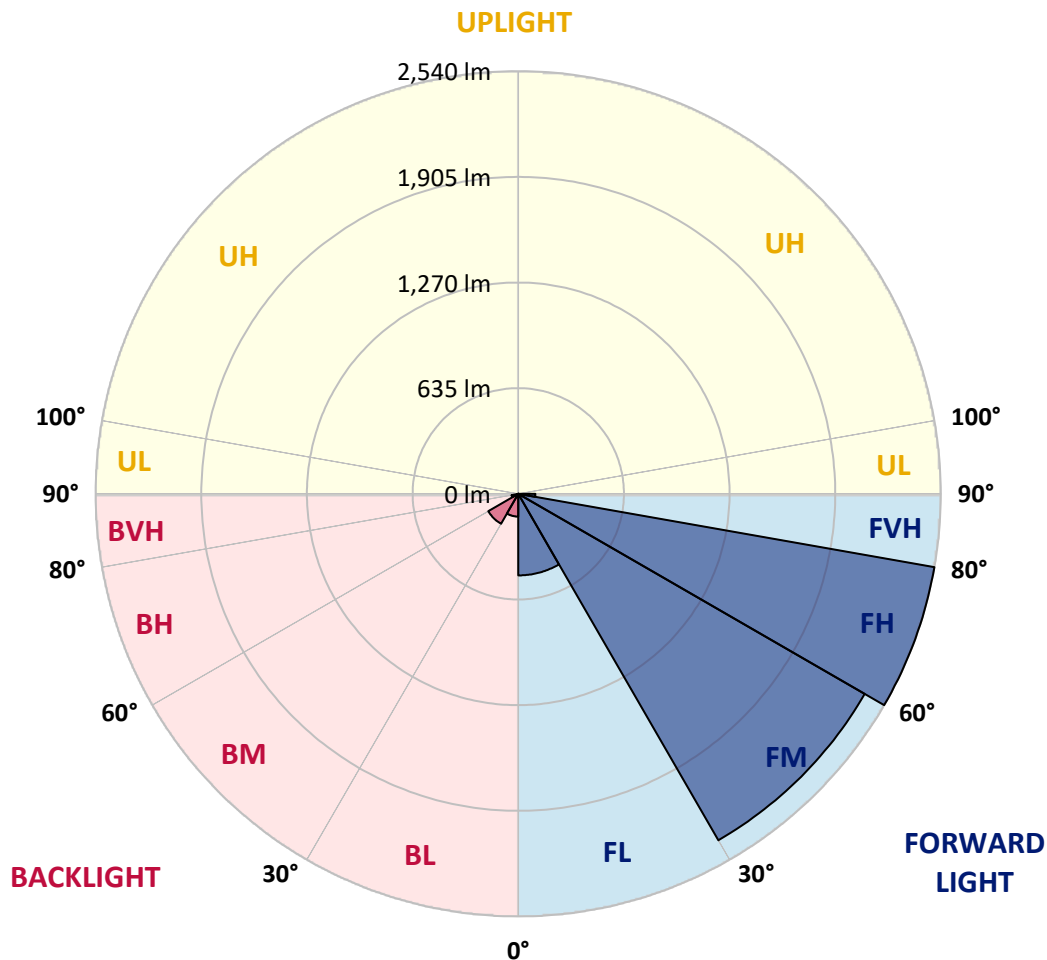
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.1	8.3			
FM (30°-60°)	2404.3	40.6			
FH (60°-80°)	2539.8	42.9			G2/5000
FVH (80°-90°)	103.0	1.7			G2/225
BL (0°-30°)	136.8	2.3	B1/500		
BM (30°-60°)	207.9	3.5	B0/220		
BH (60°-80°)	40.8	0.7	B0/110		G0/110
BVH (80°-90°)	0.8	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°	35°	39°	45°	55°	65°	75°	85°
0°	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3
2.5°	1067.9	1064.3	1059.6	1054.0	1038.1	1035.3	1025.7	1005.5	981.2	961.3	933.8
5°	1118.5	1120.5	1116.9	1106.9	1095.4	1088.6	1076.7	1045.2	1013.8	973.6	928.6
7.5°	1130.0	1134.0	1129.6	1120.1	1109.0	1101.8	1092.2	1065.2	1028.5	982.7	921.0
10°	1128.9	1133.6	1130.8	1122.1	1113.0	1106.1	1095.8	1074.3	1044.8	996.7	923.5
12.5°	1126.9	1133.2	1132.8	1128.5	1120.9	1115.7	1109.4	1090.2	1062.8	1017.0	936.6
15°	1121.3	1129.2	1136.4	1140.0	1140.4	1140.4	1132.5	1112.1	1085.9	1043.7	953.7
17.5°	1123.7	1132.8	1150.8	1161.1	1168.2	1167.5	1159.1	1137.2	1108.2	1071.1	971.6
20°	1138.4	1150.8	1175.8	1196.5	1203.7	1201.3	1190.2	1164.6	1131.7	1094.6	989.2
22.5°	1174.7	1185.8	1217.2	1241.5	1246.7	1240.3	1224.4	1189.8	1159.9	1120.1	1010.2
25°	1228.8	1241.9	1271.0	1289.3	1289.3	1285.7	1263.4	1222.8	1191.7	1155.6	1037.7
27.5°	1294.5	1305.6	1334.2	1350.5	1341.0	1330.6	1308.4	1259.4	1229.5	1200.1	1070.8
30°	1360.9	1368.1	1398.3	1405.5	1395.5	1382.4	1358.5	1309.6	1283.3	1260.6	1118.5
32.5°	1423.8	1439.3	1464.4	1462.8	1449.3	1442.9	1421.0	1368.8	1354.1	1351.8	1185.4
35°	1486.7	1498.7	1520.9	1526.5	1514.6	1513.4	1497.4	1458.8	1459.2	1474.8	1289.7
37.5°	1540.8	1551.6	1577.8	1590.2	1592.5	1598.6	1592.2	1566.7	1602.9	1645.5	1427.8
40°	1586.2	1601.3	1634.7	1656.3	1680.9	1702.8	1704.0	1709.6	1782.4	1855.6	1608.1
42.5°	1621.6	1642.7	1691.3	1731.1	1787.6	1815.5	1837.8	1868.4	1991.0	2100.5	1820.6
45°	1667.8	1692.1	1752.6	1815.1	1903.5	1949.2	1980.3	2062.3	2236.2	2385.5	2038.8
47.5°	1744.2	1757.0	1818.7	1909.8	2026.0	2091.3	2151.8	2276.0	2499.3	2633.1	2220.3
50°	1842.6	1850.9	1897.4	2024.1	2174.5	2260.4	2370.8	2516.8	2772.4	2838.5	2323.0
52.5°	1951.2	1954.0	1989.0	2149.8	2340.9	2449.1	2572.5	2752.9	2994.9	2985.0	2391.0
55°	2077.4	2073.4	2103.2	2286.4	2537.9	2661.7	2805.4	2994.5	3187.9	3088.8	2430.0
57.5°	2221.8	2211.1	2240.2	2467.5	2790.3	2938.4	3084.4	3203.0	3337.6	3176.0	2448.8
60°	2373.1	2351.7	2386.3	2670.9	3087.6	3228.2	3349.5	3381.4	3495.2	3245.2	2416.5
62.5°	2493.7	2494.2	2558.6	2887.4	3393.3	3516.3	3580.8	3609.5	3630.9	3230.1	2247.0
65°	2682.0	2688.4	2791.5	3187.9	3747.2	3853.8	3898.0	3804.9	3636.9	3042.3	1992.2
67.5°	2876.3	2896.6	3085.3	3601.9	4155.9	4241.9	4185.0	3842.7	3474.5	2613.6	1510.6
70°	2939.5	2973.0	3283.8	3886.9	4401.2	4445.7	4253.1	3666.4	2904.5	1747.4	760.3
72.5°	2693.5	2747.7	3169.6	3783.0	4244.7	4206.1	3805.3	3074.8	1846.5	663.5	232.1
75°	1899.5	1923.4	2634.2	3138.2	3414.0	3304.6	2894.6	1982.2	759.4	186.3	79.6
77.5°	980.8	969.2	1566.7	2082.2	2434.8	2321.4	1895.5	1026.1	287.8	77.6	49.3
80°	507.1	515.4	677.8	1091.0	1486.3	1367.7	1010.6	475.7	153.2	43.0	37.8
82.5°	284.2	266.7	389.7	476.5	695.0	544.9	387.7	336.8	66.9	25.8	35.9
85°	51.8	54.1	213.8	257.5	241.2	153.2	125.0	224.9	19.5	14.3	25.1
87.5°	0.8	0.8	41.4	74.1	47.0	21.5	39.4	32.3	4.0	5.6	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°	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3	924.3
2.5°	919.9	904.8	876.5	848.6	813.2	784.2	764.6	744.3	723.6	725.2	730.0
5°	904.0	877.7	822.0	763.0	706.5	655.6	605.4	560.5	542.1	525.4	526.2
7.5°	888.0	851.0	769.4	677.1	591.5	504.7	441.8	390.1	362.6	341.9	336.0
10°	880.9	831.9	721.2	594.3	472.9	378.1	297.3	255.2	222.5	212.2	214.9
12.5°	884.1	822.4	677.8	519.4	375.0	263.5	206.9	185.5	178.3	177.1	176.3
15°	890.0	815.6	635.2	436.7	275.5	195.8	174.0	170.0	169.2	168.3	168.7
17.5°	897.9	809.6	589.9	359.0	211.3	171.2	164.8	162.8	162.4	162.4	162.4
20°	905.9	802.9	539.3	289.8	176.3	161.6	157.6	156.4	156.1	156.1	155.7
22.5°	915.1	796.9	488.0	227.7	162.4	154.8	151.3	150.5	150.0	149.6	149.6
25°	928.2	789.3	433.5	186.3	153.6	148.5	144.9	144.1	143.7	142.1	142.5
27.5°	945.8	783.8	377.3	160.8	145.7	140.5	138.1	136.9	136.2	134.9	135.3
30°	969.7	779.0	317.7	146.9	136.6	132.2	129.7	129.0	128.2	127.0	127.0
32.5°	1011.0	781.0	254.7	135.7	128.2	123.0	120.6	119.8	119.0	117.8	117.8
35°	1073.1	792.5	203.8	126.1	118.2	113.1	110.6	110.6	109.5	107.9	107.5
37.5°	1174.7	822.0	163.6	117.1	108.7	103.9	101.1	100.3	99.1	96.7	96.3
40°	1294.5	867.7	137.7	107.9	99.9	95.1	92.7	90.4	87.1	84.8	84.4
42.5°	1444.9	914.7	119.4	98.7	91.5	87.1	84.4	80.4	75.6	72.4	72.0
45°	1601.7	957.7	107.0	90.4	83.6	80.0	76.8	70.5	64.5	60.5	60.1
47.5°	1718.8	965.7	97.1	82.4	76.8	73.2	68.8	60.9	52.9	49.3	48.2
50°	1774.0	927.1	86.8	74.5	70.1	66.1	60.5	51.4	42.6	38.2	37.4
52.5°	1793.5	860.2	78.4	67.3	63.3	58.5	51.8	41.4	33.4	29.0	28.7
55°	1785.6	775.8	70.9	60.5	55.4	49.7	43.0	33.0	24.7	21.1	20.3
57.5°	1743.8	668.3	63.3	53.7	47.4	41.8	34.2	24.7	16.8	13.5	13.2
60°	1631.1	521.9	55.7	46.2	40.2	34.2	27.1	17.5	10.3	7.6	7.6
62.5°	1440.9	387.3	48.5	38.6	33.8	27.5	19.1	11.1	5.6	4.0	3.6
65°	1204.1	285.8	40.6	32.7	28.3	21.5	13.5	6.7	2.8	1.2	0.8
67.5°	840.2	176.3	33.8	26.7	23.1	15.5	8.4	2.8	1.2	0.0	0.0
70°	381.7	84.0	25.8	20.3	17.5	11.1	4.4	1.6	0.8	0.0	0.0
72.5°	118.6	44.2	18.3	14.7	12.0	7.2	2.4	1.2	0.8	0.0	0.0
75°	55.0	28.3	11.5	8.0	6.7	3.6	1.6	0.8	0.4	0.0	0.0
77.5°	41.0	21.9	6.7	4.4	3.6	2.4	1.2	0.8	0.4	0.0	0.0
80°	35.9	11.1	4.0	2.8	2.0	1.6	0.8	0.4	0.0	0.0	0.0
82.5°	32.3	5.6	2.4	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
85°	17.5	3.2	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.2	0.8	0.8	0.4	0.4	0.4	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)