

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: P534590

Luminaire Tested: **GALN-SA4A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-AMB-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4085 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

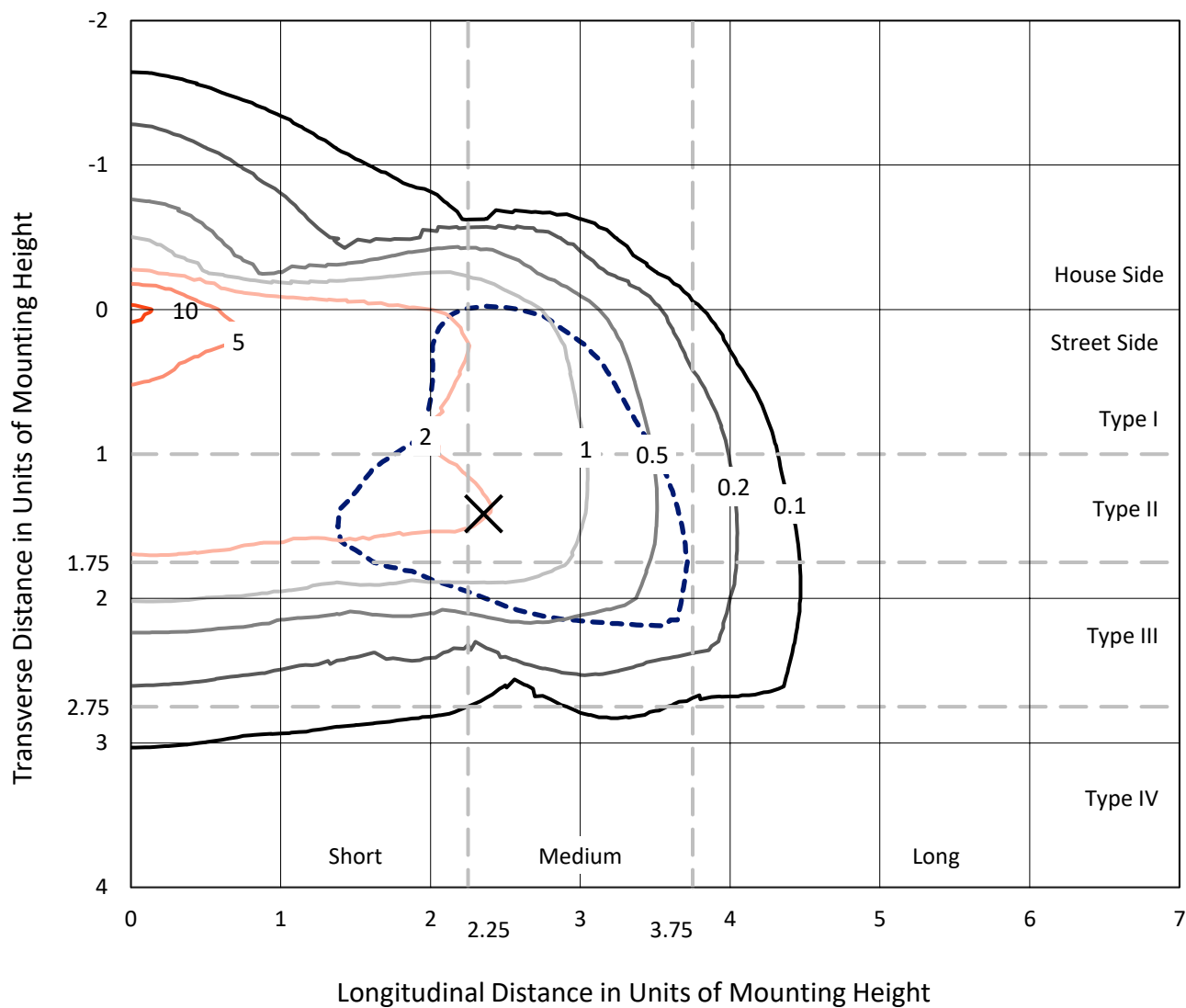
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

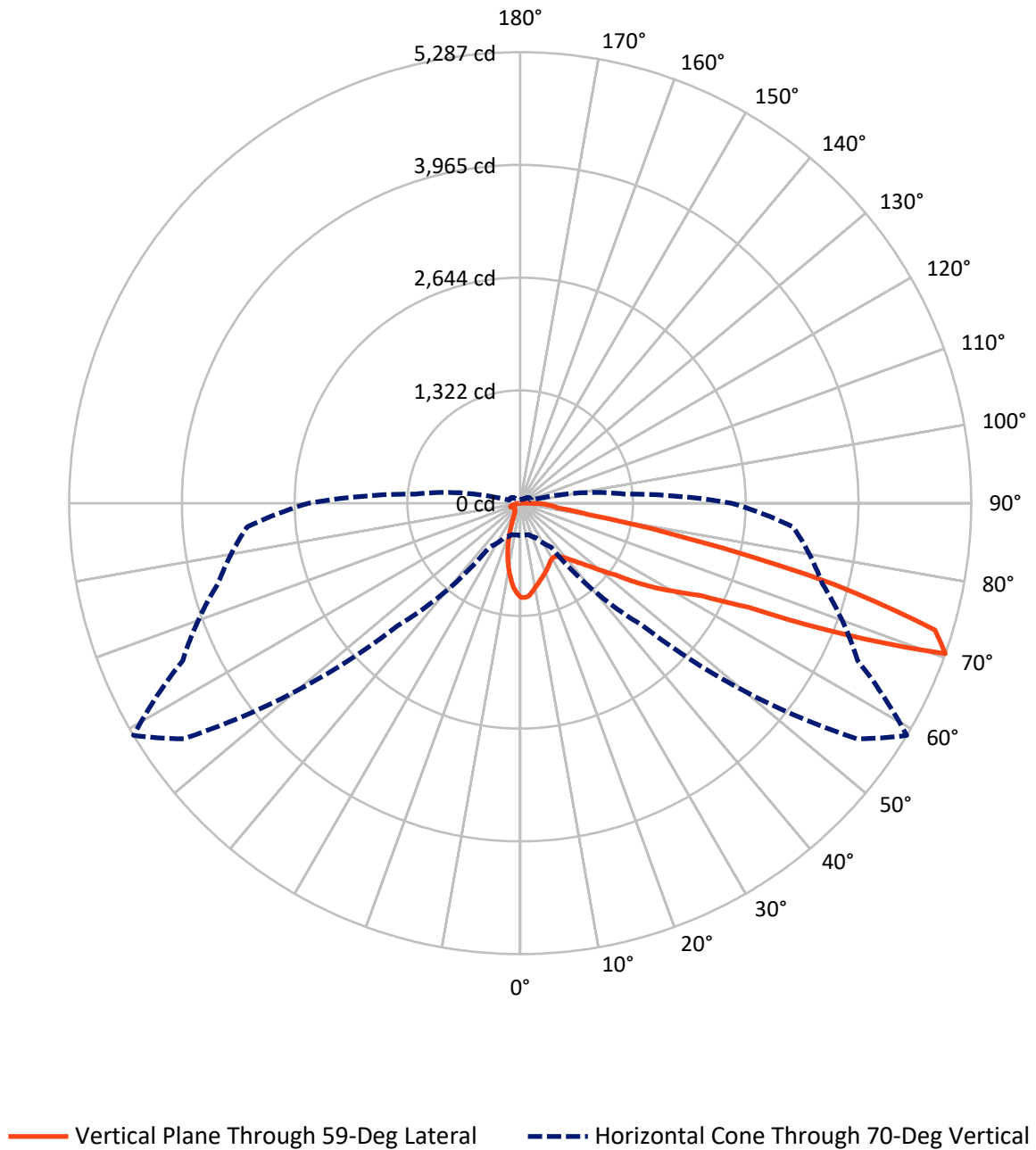


Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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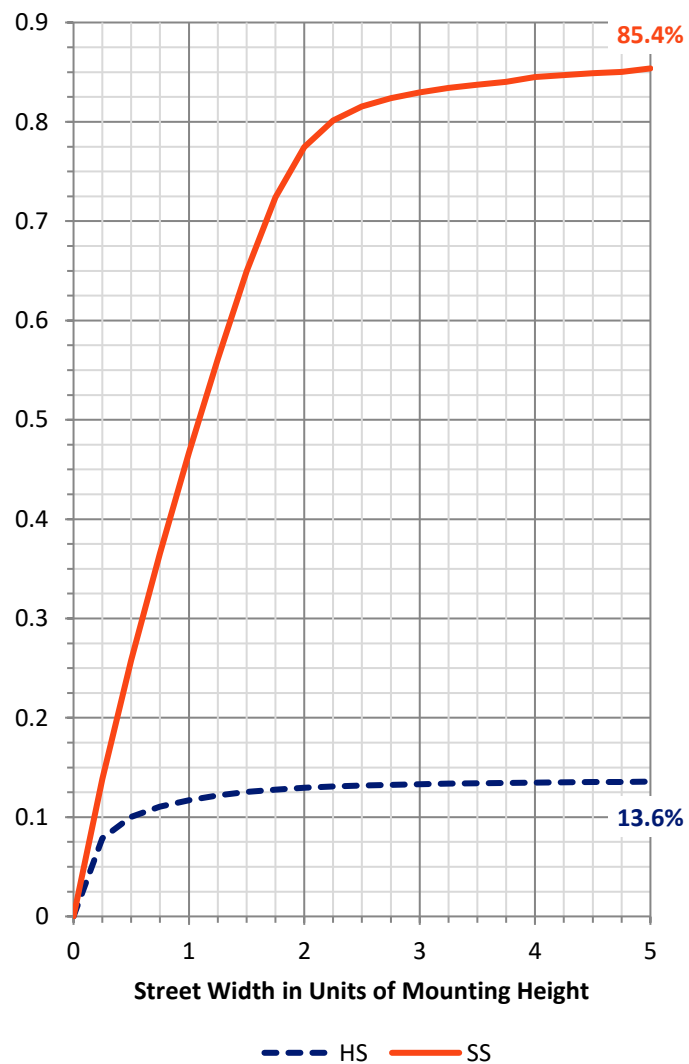
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	559.8	0.0	559.8
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	3525.2	0.0	3525.2
	% Fixture	86.3	0.0	86.3
Total	Lumens	4085.0	0.0	4085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	2.2
10°-20°	189.8	4.6
20°-30°	239.8	5.9
30°-40°	313.9	7.7
40°-50°	466.3	11.4
50°-60°	763.9	18.7
60°-70°	1188.5	29.1
70°-80°	736.1	18.0
80°-90°	96.0	2.3
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°	4085.0	100.0
0°-180°	4085.0	100.0

Coefficient of Utilization



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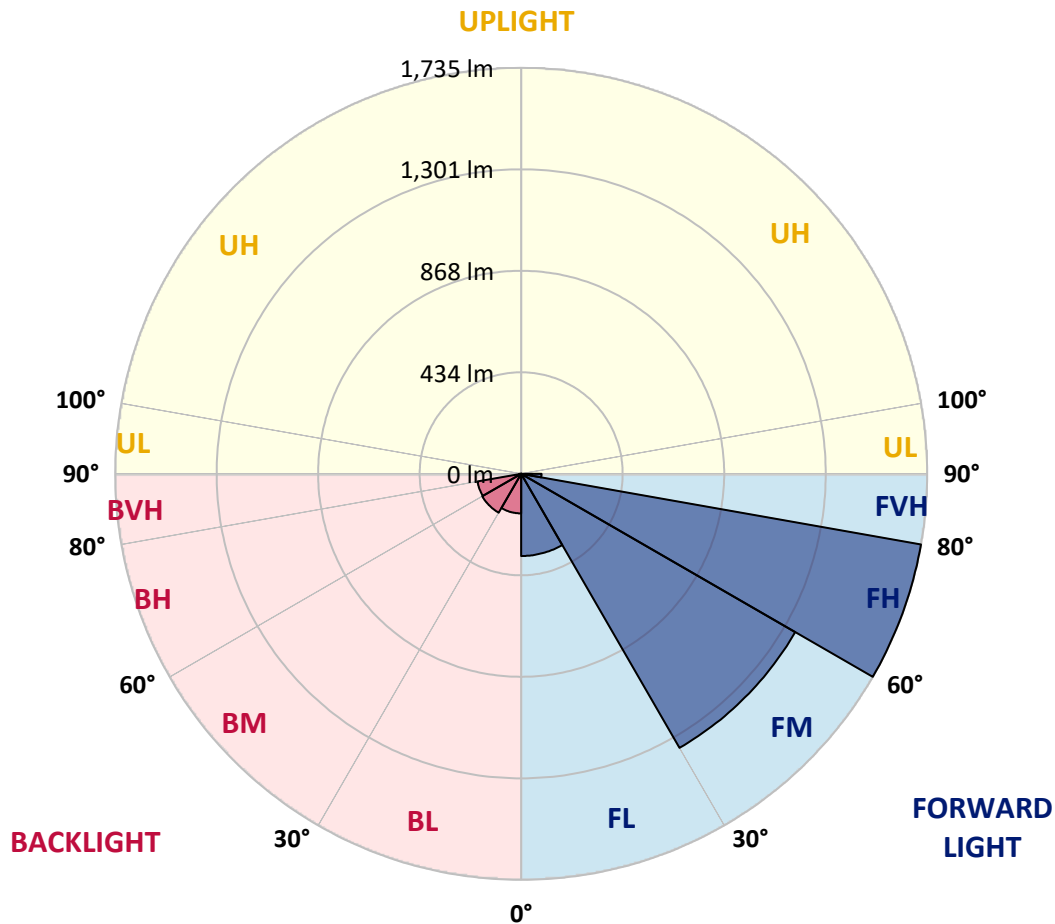
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.2	8.6			
FM	(30°-60°)	1352.1	33.1			
FH	(60°-80°)	1735.1	42.5			G1/1800
FVH	(80°-90°)	86.8	2.1			G1/100
BL	(0°-30°)	169.2	4.1	B1/500		
BM	(30°-60°)	191.9	4.7	B0/220		
BH	(60°-80°)	189.5	4.6	B1/500		G1/500
BVH	(80°-90°)	9.2	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7
2.5°	1110.3	1110.3	1110.3	1101.3	1117.6	1112.2	1114.0	1108.5	1112.2	1106.7	1101.3
5°	1056.0	1056.0	1052.4	1054.2	1068.7	1079.6	1086.8	1090.4	1083.2	1086.8	1075.9
7.5°	965.4	972.7	974.5	983.6	1001.7	1021.6	1034.3	1043.3	1046.9	1048.8	1036.1
10°	880.3	882.1	894.8	905.7	936.5	960.0	989.0	996.2	1007.1	1021.6	1008.9
12.5°	818.7	827.8	831.4	845.9	878.5	905.7	940.1	958.2	974.5	1001.7	996.2
15°	762.6	760.8	768.0	791.6	826.0	865.8	905.7	920.2	945.5	981.7	974.5
17.5°	719.1	719.1	728.2	748.1	775.2	816.9	871.2	887.6	922.0	969.1	954.6
20°	697.4	699.2	702.8	708.2	730.0	778.9	829.6	856.8	894.8	958.2	940.1
22.5°	693.7	691.9	690.1	691.9	704.6	731.8	789.7	824.2	874.9	952.8	922.0
25°	699.2	697.4	695.5	693.7	693.7	711.9	762.6	791.6	851.3	950.9	903.9
27.5°	713.7	717.3	708.2	699.2	690.1	697.4	731.8	762.6	827.8	958.2	894.8
30°	739.0	740.8	737.2	724.5	706.4	697.4	719.1	746.3	807.9	965.4	887.6
32.5°	768.0	768.0	768.0	757.1	735.4	710.0	720.9	746.3	806.0	983.6	882.1
35°	798.8	806.0	806.0	795.2	777.1	735.4	742.6	766.2	820.5	1007.1	896.6
37.5°	842.3	844.1	842.3	844.1	824.2	780.7	782.5	802.4	845.9	1041.5	918.3
40°	883.9	878.5	891.2	902.0	889.4	840.5	835.0	856.8	891.2	1097.7	958.2
42.5°	922.0	923.8	932.8	952.8	963.6	918.3	909.3	925.6	949.1	1164.7	1025.2
45°	958.2	963.6	998.0	1019.8	1041.5	996.2	990.8	1008.9	1034.3	1244.4	1124.8
47.5°	990.8	994.4	1037.9	1090.4	1128.5	1108.5	1101.3	1114.0	1126.6	1360.3	1249.8
50°	1021.6	1034.3	1090.4	1157.4	1222.6	1244.4	1229.9	1244.4	1242.6	1478.0	1387.5
52.5°	1106.7	1119.4	1181.0	1248.0	1324.1	1383.9	1407.4	1398.3	1385.7	1608.5	1545.1
55°	1291.5	1286.0	1318.6	1360.3	1447.3	1525.1	1641.1	1626.6	1570.4	1744.3	1700.8
57.5°	1472.6	1501.6	1501.6	1490.7	1577.7	1711.7	1865.7	1869.3	1762.4	1891.0	1885.6
60°	1545.1	1577.7	1651.9	1749.7	1853.0	1925.4	2106.6	2106.6	1958.0	2057.7	2075.8
62.5°	1378.4	1425.5	1541.4	1740.7	2110.2	2492.4	2472.5	2389.1	2220.7	2296.8	2376.5
65°	851.3	864.0	1008.9	1403.8	2012.4	2995.9	3178.9	2938.0	2621.0	2700.7	2874.6
67.5°	512.6	519.9	552.5	720.9	1278.8	2943.4	4271.1	4113.5	3356.4	3260.4	3280.3
70°	378.6	373.1	382.2	451.0	626.7	2030.5	4816.3	5287.3	4363.5	3669.7	3213.3
72.5°	300.7	304.3	307.9	374.9	467.3	844.1	4196.8	5084.4	4684.1	3456.0	2434.4
75°	235.5	237.3	255.4	317.0	447.4	454.6	2657.2	3798.4	3483.2	2334.8	1068.7
77.5°	175.7	181.1	199.2	264.5	429.3	436.5	1157.4	2081.2	1769.7	960.0	286.2
80°	115.9	117.7	135.8	217.4	405.7	438.3	523.5	815.1	545.2	204.7	105.1
82.5°	65.2	68.8	85.1	135.8	335.1	425.7	440.2	436.5	248.2	101.4	56.2
85°	36.2	36.2	50.7	79.7	199.2	413.0	416.6	367.7	172.1	56.2	30.8
87.5°	16.3	16.3	23.5	36.2	94.2	273.5	307.9	262.6	108.7	23.5	10.9
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°	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7	1106.7
2.5°	1092.2	1085.0	1075.9	1056.0	1054.2	1039.7	1036.1	1019.8	1010.7	1023.4	1012.5
5°	1072.3	1063.2	1028.8	1016.2	972.7	945.5	925.6	900.2	882.1	882.1	883.9
7.5°	1034.3	1018.0	970.9	925.6	871.2	826.0	780.7	730.0	706.4	702.8	686.5
10°	999.9	974.5	909.3	838.6	764.4	684.7	615.9	548.8	496.3	458.3	460.1
12.5°	970.9	940.1	851.3	755.3	644.8	543.4	440.2	360.5	307.9	295.2	295.2
15°	949.1	898.4	786.1	661.1	530.7	398.5	298.9	242.7	217.4	204.7	204.7
17.5°	914.7	851.3	720.9	570.6	405.7	280.8	221.0	195.6	184.8	181.1	179.3
20°	880.3	807.9	635.8	458.3	293.4	204.7	179.3	168.5	164.8	164.8	166.6
22.5°	849.5	753.5	554.3	344.2	210.1	168.5	154.0	150.3	152.2	155.8	154.0
25°	820.5	708.2	474.6	251.8	163.0	141.3	137.7	137.7	141.3	144.9	146.7
27.5°	793.4	673.8	387.6	186.6	137.7	125.0	125.0	128.6	134.0	135.8	137.7
30°	773.4	634.0	306.1	148.5	119.5	115.9	115.9	119.5	121.4	125.0	125.0
32.5°	757.1	601.4	233.7	126.8	110.5	108.7	108.7	110.5	112.3	114.1	115.9
35°	751.7	566.9	182.9	112.3	105.1	103.2	103.2	103.2	105.1	106.9	106.9
37.5°	757.1	541.6	148.5	105.1	99.6	97.8	97.8	97.8	97.8	97.8	97.8
40°	782.5	523.5	128.6	101.4	96.0	94.2	92.4	92.4	92.4	94.2	94.2
42.5°	835.0	507.2	119.5	97.8	94.2	90.6	88.8	86.9	86.9	90.6	90.6
45°	905.7	509.0	114.1	96.0	92.4	86.9	83.3	83.3	85.1	88.8	90.6
47.5°	994.4	527.1	110.5	94.2	88.8	83.3	81.5	81.5	83.3	88.8	88.8
50°	1103.1	561.5	110.5	94.2	88.8	81.5	79.7	79.7	81.5	86.9	88.8
52.5°	1226.3	621.3	112.3	94.2	88.8	81.5	77.9	77.9	79.7	85.1	85.1
55°	1387.5	704.6	115.9	96.0	86.9	81.5	77.9	74.3	76.1	79.7	79.7
57.5°	1528.8	827.8	121.4	96.0	86.9	81.5	76.1	70.6	70.6	74.3	74.3
60°	1753.4	998.0	143.1	101.4	86.9	77.9	70.6	65.2	65.2	67.0	67.0
62.5°	2052.2	1287.9	164.8	110.5	92.4	76.1	67.0	61.6	59.8	59.8	59.8
65°	2554.0	1606.6	168.5	121.4	101.4	76.1	61.6	56.2	54.3	54.3	54.3
67.5°	2749.6	1612.1	154.0	126.8	112.3	76.1	59.8	52.5	48.9	48.9	48.9
70°	2477.9	1229.9	135.8	126.8	117.7	74.3	58.0	50.7	45.3	43.5	43.5
72.5°	1688.2	655.7	121.4	119.5	105.1	65.2	56.2	47.1	41.7	39.8	38.0
75°	675.6	228.2	105.1	108.7	81.5	52.5	47.1	41.7	38.0	34.4	34.4
77.5°	170.3	112.3	79.7	85.1	58.0	41.7	39.8	38.0	32.6	30.8	30.8
80°	94.2	76.1	59.8	58.0	38.0	29.0	29.0	29.0	27.2	25.4	25.4
82.5°	52.5	47.1	39.8	36.2	25.4	19.9	19.9	19.9	19.9	18.1	16.3
85°	29.0	27.2	23.5	18.1	14.5	10.9	10.9	10.9	10.9	9.1	9.1
87.5°	10.9	10.9	9.1	5.4	3.6	1.8	1.8	1.8	1.8	1.8	1.8
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)