

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: P534599

Luminaire Tested: **GALN-SA5A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) NARROW BAND AMBER, 500mA 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: 4251 lumens
Efficiency: N/A
Efficacy: 42.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

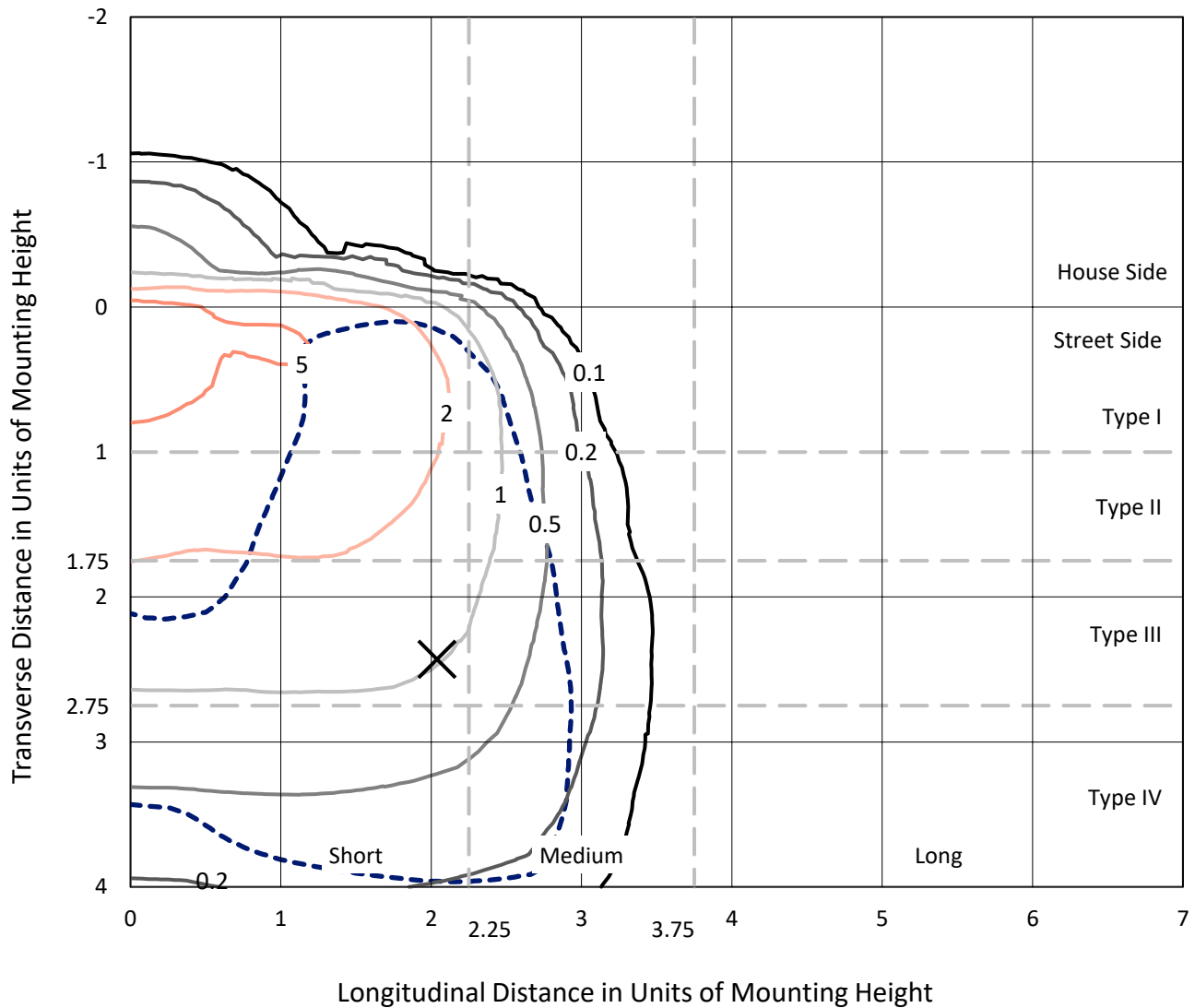
Input Watts (W): 100.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534599
 CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

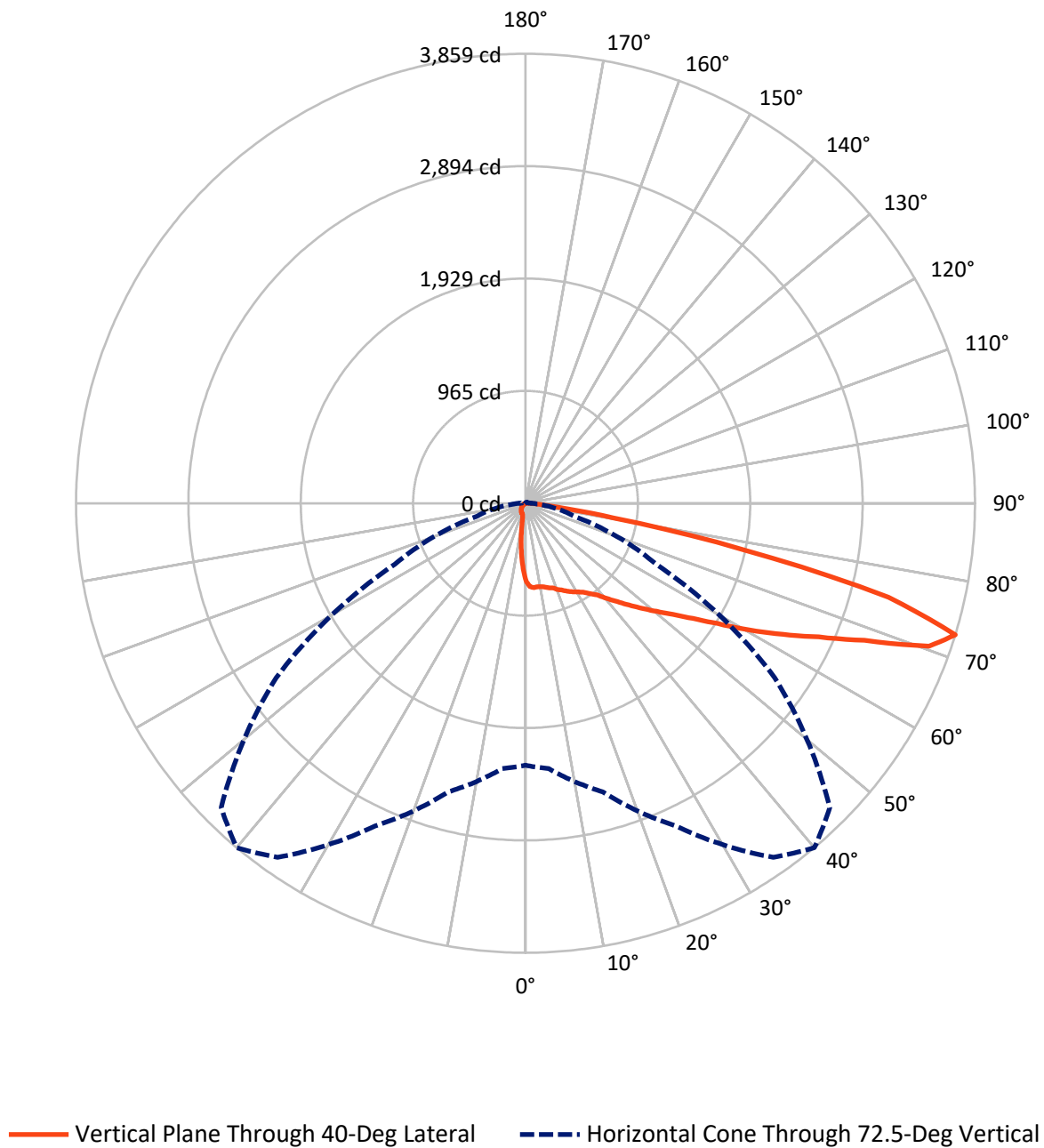
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P534599
CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P534599

CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

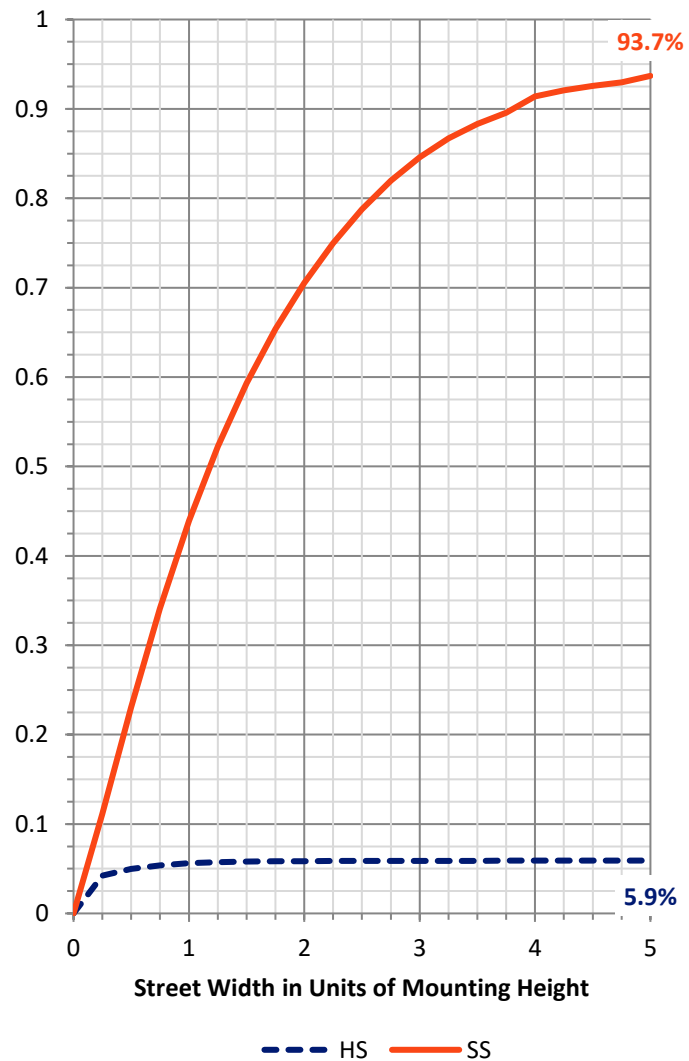
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	252.8	0.0	252.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3998.2	0.0	3998.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	4251.0	0.0	4251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	133.8	3.1
20°-30°	221.7	5.2
30°-40°	339.3	8.0
40°-50°	541.7	12.7
50°-60°	847.2	19.9
60°-70°	1215.9	28.6
70°-80°	818.6	19.3
80°-90°	79.3	1.9
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°	4251.0	100.0
0°-180°	4251.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534599

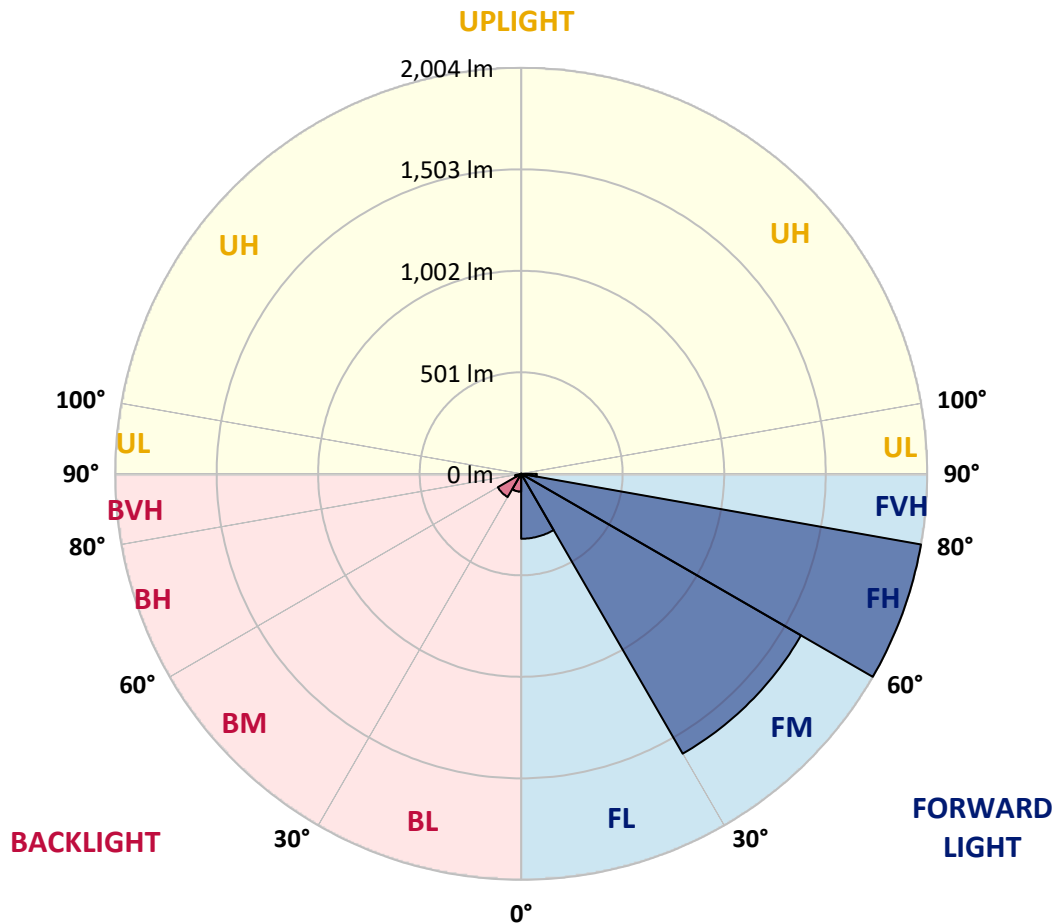
CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.7	7.5			
FM	(30°-60°)	1595.4	37.5			
FH	(60°-80°)	2004.4	47.2			G2/5000
FVH	(80°-90°)	77.6	1.8			G1/100
BL	(0°-30°)	88.2	2.1	B0/110		
BM	(30°-60°)	132.7	3.1	B0/220		
BH	(60°-80°)	30.1	0.7	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G2

Type IV Short



REPORT NUMBER: P534599

CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	737.4	732.8	723.5	721.2	721.2	714.2	714.2	704.9	695.7	681.8	665.5
5°	744.4	742.0	739.7	742.0	732.8	728.1	721.2	709.6	693.3	679.4	658.6
7.5°	744.4	744.4	739.7	732.8	732.8	723.5	721.2	707.3	693.3	677.1	651.6
10°	728.1	728.1	730.4	732.8	735.1	728.1	725.8	704.9	695.7	686.4	656.2
12.5°	711.9	709.6	723.5	732.8	739.7	737.4	730.4	723.5	704.9	684.1	658.6
15°	707.3	707.3	721.2	742.0	751.3	753.6	746.7	735.1	714.2	695.7	665.5
17.5°	709.6	709.6	728.1	753.6	767.5	762.9	765.2	744.4	723.5	707.3	679.4
20°	728.1	723.5	751.3	781.5	793.1	790.7	781.5	758.3	737.4	723.5	693.3
22.5°	742.0	739.7	772.2	802.3	820.9	809.3	802.3	767.5	746.7	739.7	709.6
25°	776.8	779.1	802.3	837.1	844.1	837.1	825.5	781.5	762.9	767.5	723.5
27.5°	813.9	818.6	844.1	867.3	867.3	860.3	848.7	802.3	786.1	790.7	749.0
30°	862.6	855.7	881.2	895.1	892.8	883.5	874.2	825.5	818.6	834.8	779.1
32.5°	920.6	913.6	927.6	932.2	916.0	909.0	906.7	860.3	853.3	888.1	816.2
35°	983.2	969.3	973.9	967.0	955.4	950.7	939.1	899.7	909.0	955.4	874.2
37.5°	1029.6	1024.9	1024.9	1004.1	997.1	997.1	997.1	962.3	983.2	1064.4	962.3
40°	1080.6	1071.3	1059.7	1045.8	1062.0	1073.6	1073.6	1041.2	1085.2	1191.9	1066.7
42.5°	1120.0	1115.4	1099.1	1094.5	1133.9	1154.8	1161.8	1133.9	1205.8	1361.2	1212.8
45°	1166.4	1154.8	1129.3	1152.5	1210.5	1245.2	1256.8	1252.2	1356.5	1549.0	1377.4
47.5°	1201.2	1198.9	1166.4	1210.5	1291.6	1347.3	1377.4	1375.1	1518.9	1780.9	1553.7
50°	1263.8	1249.9	1212.8	1291.6	1379.7	1458.6	1500.3	1528.1	1732.2	2003.5	1704.4
52.5°	1324.1	1312.5	1263.8	1379.7	1488.7	1583.8	1648.7	1741.5	1957.1	2193.7	1785.5
55°	1409.9	1402.9	1363.5	1486.4	1634.8	1743.8	1825.0	1973.4	2193.7	2323.5	1859.7
57.5°	1516.5	1488.7	1474.8	1627.9	1820.3	1947.9	2049.9	2221.5	2360.6	2437.1	1966.4
60°	1634.8	1602.3	1576.8	1787.9	2054.5	2209.9	2325.8	2441.8	2509.0	2599.5	2128.7
62.5°	1762.3	1734.5	1713.7	1936.3	2298.0	2478.9	2560.0	2615.7	2736.3	2873.1	2170.5
65°	1936.3	1896.8	1887.6	2151.9	2590.2	2766.4	2822.1	2938.0	3033.1	2954.3	1947.9
67.5°	2082.4	2126.4	2165.8	2476.6	2993.7	3137.4	3251.1	3350.8	3116.6	2492.8	1242.9
70°	2321.2	2330.5	2467.3	2866.1	3431.9	3675.4	3738.0	3374.0	2407.0	1377.4	470.7
72.5°	2249.3	2286.4	2564.7	3056.3	3710.2	3858.6	3694.0	2613.4	1238.3	435.9	122.9
75°	1579.2	1627.9	2228.4	2713.1	3355.4	3218.6	2666.7	1335.7	422.0	104.3	51.0
77.5°	781.5	827.8	1245.2	1746.1	2230.8	1903.8	1326.4	556.5	169.3	55.7	34.8
80°	422.0	440.6	498.6	744.4	987.8	762.9	489.3	329.3	118.3	37.1	25.5
82.5°	229.6	248.1	320.0	289.9	322.3	275.9	243.5	317.7	76.5	27.8	23.2
85°	51.0	55.7	178.6	183.2	169.3	113.6	111.3	306.1	30.1	13.9	13.9
87.5°	0.0	0.0	32.5	69.6	74.2	62.6	76.5	129.9	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P534599

CATALOG NUMBER: GALN-SA5A-AMB-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	658.6	651.6	630.7	609.9	589.0	572.8	554.2	542.6	533.3	531.0	528.7
5°	644.6	626.1	591.3	547.3	500.9	456.8	417.4	387.3	371.0	357.1	354.8
7.5°	637.7	619.1	556.5	487.0	405.8	338.6	275.9	227.3	192.5	183.2	176.2
10°	640.0	609.9	524.1	419.7	310.7	213.3	150.7	120.6	109.0	106.7	106.7
12.5°	635.4	600.6	487.0	350.2	213.3	127.5	104.3	99.7	99.7	99.7	99.7
15°	640.0	593.6	452.2	275.9	139.1	99.7	97.4	95.1	95.1	95.1	97.4
17.5°	651.6	596.0	415.1	206.4	102.0	95.1	92.8	92.8	92.8	92.8	92.8
20°	658.6	593.6	371.0	146.1	95.1	90.4	90.4	88.1	88.1	88.1	90.4
22.5°	663.2	586.7	320.0	106.7	90.4	88.1	85.8	85.8	85.8	85.8	85.8
25°	674.8	579.7	264.4	92.8	85.8	83.5	83.5	83.5	81.2	81.2	81.2
27.5°	686.4	579.7	206.4	88.1	83.5	81.2	78.8	78.8	78.8	78.8	76.5
30°	700.3	570.4	157.7	83.5	78.8	76.5	74.2	74.2	74.2	74.2	74.2
32.5°	718.9	565.8	113.6	78.8	74.2	69.6	69.6	69.6	69.6	69.6	69.6
35°	751.3	561.2	90.4	74.2	67.2	64.9	64.9	64.9	62.6	62.6	62.6
37.5°	804.7	565.8	78.8	67.2	62.6	60.3	58.0	58.0	58.0	55.7	55.7
40°	883.5	579.7	74.2	62.6	58.0	55.7	53.3	53.3	51.0	48.7	48.7
42.5°	971.6	589.0	69.6	58.0	53.3	51.0	48.7	48.7	44.1	41.7	41.7
45°	1080.6	591.3	64.9	55.7	48.7	46.4	44.1	41.7	37.1	34.8	34.8
47.5°	1208.1	591.3	58.0	48.7	46.4	41.7	41.7	34.8	30.1	27.8	27.8
50°	1305.5	570.4	53.3	46.4	41.7	39.4	34.8	30.1	23.2	23.2	20.9
52.5°	1351.9	519.4	51.0	41.7	37.1	34.8	30.1	23.2	18.6	16.2	16.2
55°	1391.3	463.8	46.4	39.4	34.8	30.1	25.5	18.6	13.9	11.6	11.6
57.5°	1447.0	387.3	44.1	34.8	30.1	25.5	20.9	13.9	9.3	7.0	7.0
60°	1509.6	296.8	39.4	30.1	27.8	20.9	16.2	9.3	4.6	4.6	4.6
62.5°	1440.0	178.6	34.8	27.8	23.2	18.6	11.6	7.0	2.3	2.3	2.3
65°	1143.2	99.7	30.1	23.2	20.9	16.2	9.3	4.6	0.0	0.0	0.0
67.5°	640.0	60.3	25.5	20.9	18.6	11.6	7.0	2.3	0.0	0.0	0.0
70°	197.1	41.7	20.9	18.6	16.2	11.6	4.6	2.3	0.0	0.0	0.0
72.5°	53.3	30.1	16.2	13.9	13.9	9.3	4.6	2.3	0.0	0.0	0.0
75°	34.8	20.9	13.9	11.6	11.6	9.3	4.6	2.3	0.0	0.0	0.0
77.5°	25.5	18.6	11.6	9.3	9.3	9.3	4.6	2.3	0.0	0.0	0.0
80°	23.2	13.9	9.3	7.0	9.3	11.6	4.6	2.3	0.0	0.0	0.0
82.5°	23.2	13.9	7.0	7.0	9.3	11.6	4.6	2.3	0.0	0.0	0.0
85°	13.9	4.6	2.3	2.3	4.6	4.6	2.3	2.3	0.0	0.0	0.0
87.5°	2.3	2.3	0.0	0.0	0.0	0.0	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)