

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: P534591

Luminaire Tested: **GALN-SA4A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534591
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-SA4A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA 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: 3321 lumens
Efficiency: N/A
Efficacy: 41.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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

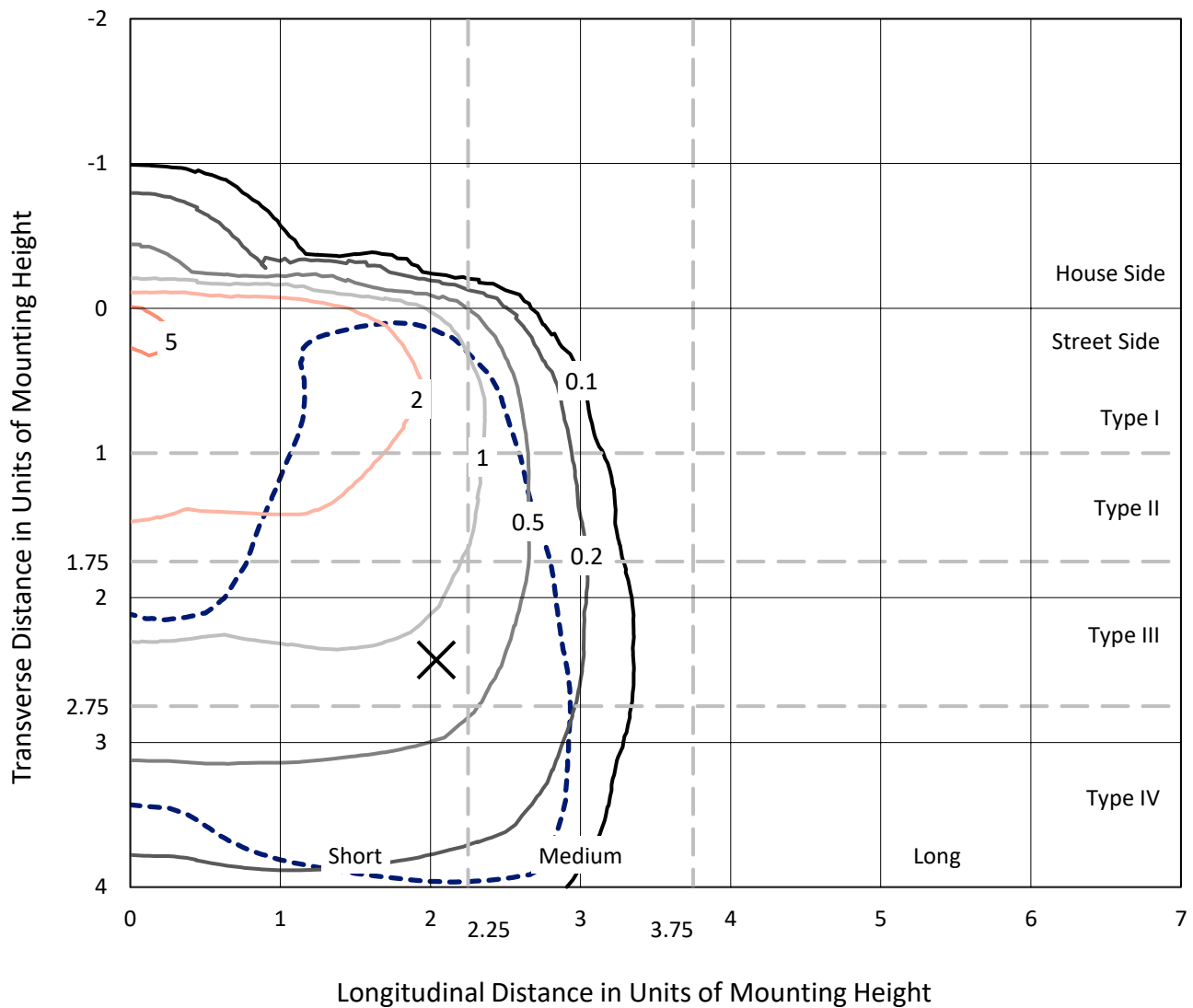


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Iso-Footcandle Lines of Horizontal Illumination

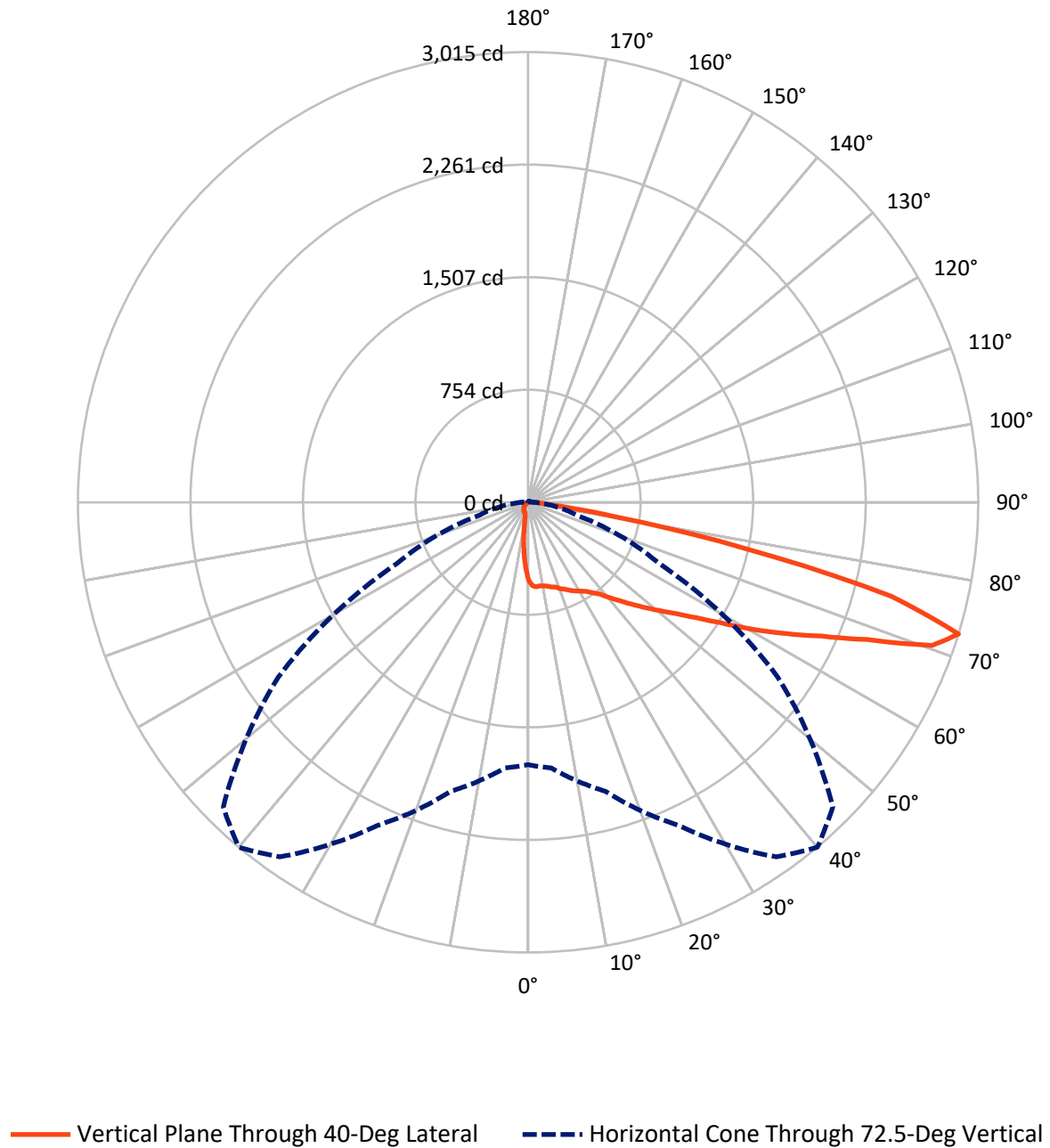
× Max cd
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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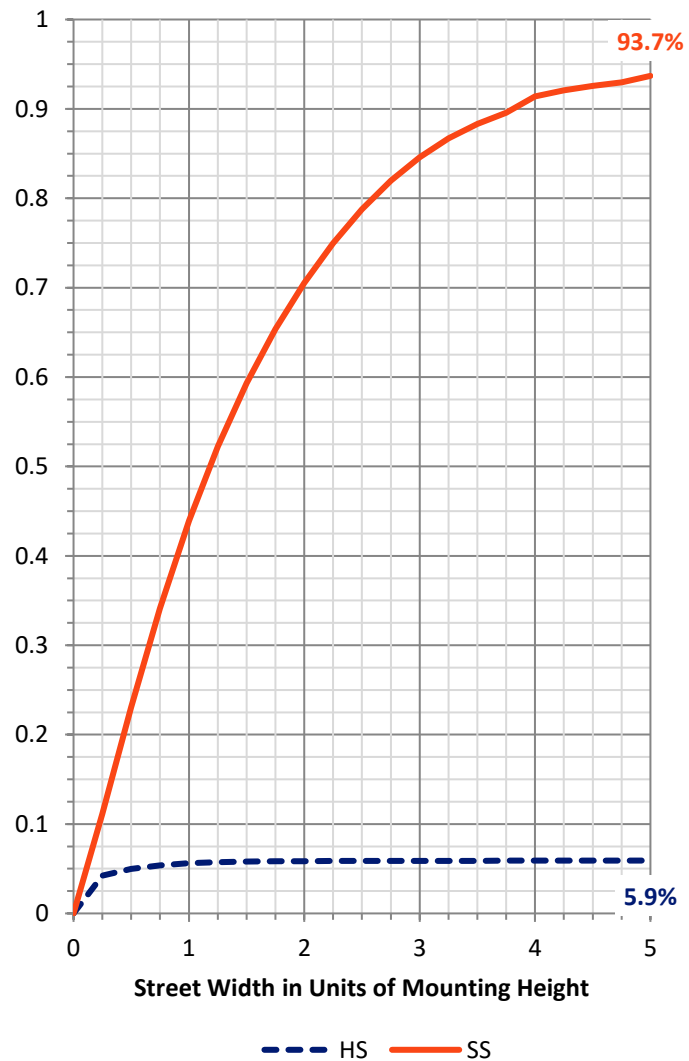
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.5	0.0	197.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3123.5	0.0	3123.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	3321.0	0.0	3321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	1.3
10°-20°	104.5	3.1
20°-30°	173.2	5.2
30°-40°	265.1	8.0
40°-50°	423.2	12.7
50°-60°	661.8	19.9
60°-70°	949.9	28.6
70°-80°	639.5	19.3
80°-90°	62.0	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°	3321.0	100.0
0°-180°	3321.0	100.0

Coefficient of Utilization



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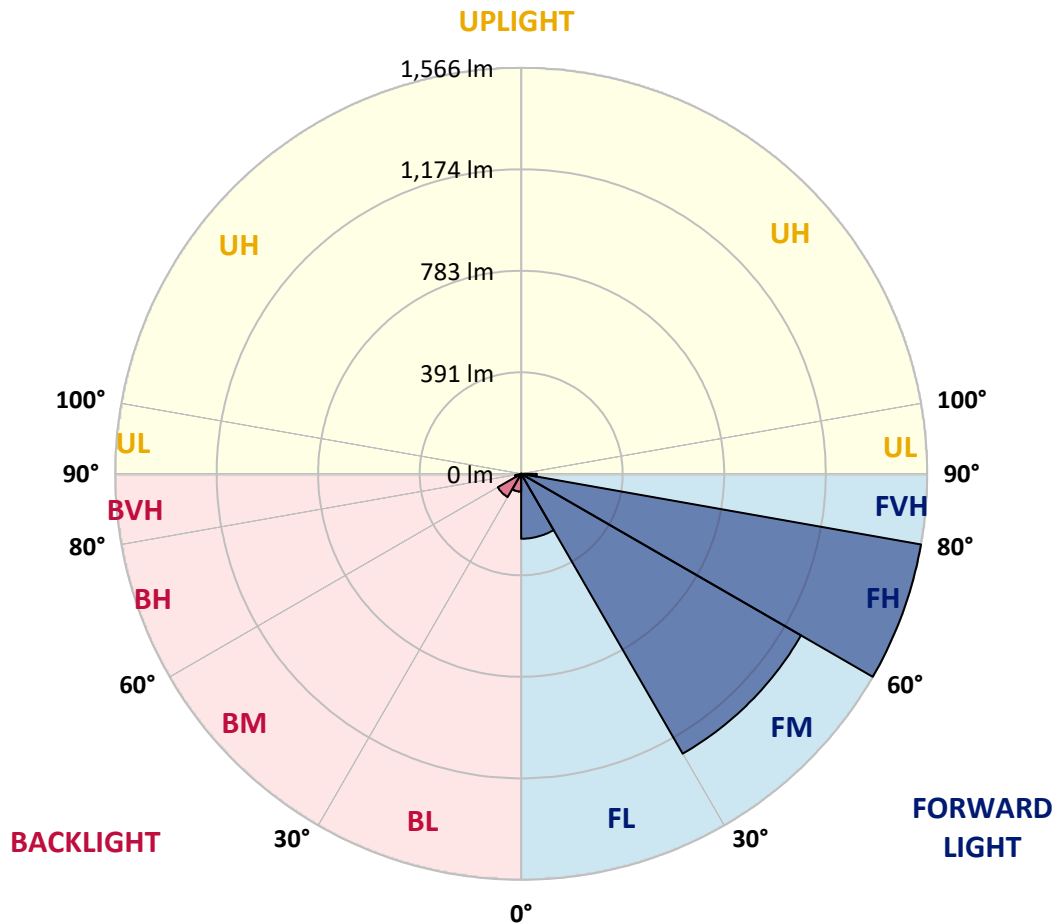
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.6	7.5			
FM	(30°-60°)	1246.4	37.5			
FH	(60°-80°)	1565.9	47.2			G1/1800
FVH	(80°-90°)	60.6	1.8			G1/100
BL	(0°-30°)	68.9	2.1	B0/110		
BM	(30°-60°)	103.7	3.1	B0/220		
BH	(60°-80°)	23.5	0.7	B0/110		G0/110
BVH	(80°-90°)	1.4	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°	40°	45°	55°	65°	75°	85°
0°	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5
2.5°	576.1	572.5	565.2	563.4	563.4	558.0	558.0	550.7	543.5	532.6	519.9
5°	581.5	579.7	577.9	579.7	572.5	568.8	563.4	554.3	541.7	530.8	514.5
7.5°	581.5	581.5	577.9	572.5	572.5	565.2	563.4	552.5	541.7	529.0	509.1
10°	568.8	568.8	570.6	572.5	574.3	568.8	567.0	550.7	543.5	536.2	512.7
12.5°	556.2	554.3	565.2	572.5	577.9	576.1	570.6	565.2	550.7	534.4	514.5
15°	552.5	552.5	563.4	579.7	587.0	588.8	583.3	574.3	558.0	543.5	519.9
17.5°	554.3	554.3	568.8	588.8	599.6	596.0	597.8	581.5	565.2	552.5	530.8
20°	568.8	565.2	587.0	610.5	619.6	617.7	610.5	592.4	576.1	565.2	541.7
22.5°	579.7	577.9	603.3	626.8	641.3	632.2	626.8	599.6	583.3	577.9	554.3
25°	606.9	608.7	626.8	654.0	659.4	654.0	644.9	610.5	596.0	599.6	565.2
27.5°	635.9	639.5	659.4	677.5	677.5	672.1	663.0	626.8	614.1	617.7	585.1
30°	673.9	668.5	688.4	699.3	697.5	690.2	683.0	644.9	639.5	652.2	608.7
32.5°	719.2	713.8	724.6	728.3	715.6	710.1	708.3	672.1	666.7	693.8	637.7
35°	768.1	757.2	760.9	755.4	746.4	742.7	733.7	702.9	710.1	746.4	683.0
37.5°	804.3	800.7	800.7	784.4	779.0	779.0	779.0	751.8	768.1	831.5	751.8
40°	844.2	836.9	827.9	817.0	829.7	838.8	838.8	813.4	847.8	931.1	833.3
42.5°	875.0	871.4	858.7	855.1	885.9	902.2	907.6	885.9	942.0	1063.4	947.5
45°	911.2	902.2	882.2	900.4	945.6	972.8	981.9	978.3	1059.8	1210.1	1076.1
47.5°	938.4	936.6	911.2	945.6	1009.0	1052.5	1076.1	1074.3	1186.6	1391.3	1213.8
50°	987.3	976.4	947.5	1009.0	1077.9	1139.5	1172.1	1193.8	1353.2	1565.2	1331.5
52.5°	1034.4	1025.4	987.3	1077.9	1163.0	1237.3	1288.0	1360.5	1529.0	1713.7	1394.9
55°	1101.4	1096.0	1065.2	1161.2	1277.2	1362.3	1425.7	1541.6	1713.7	1815.2	1452.9
57.5°	1184.8	1163.0	1152.2	1271.7	1422.1	1521.7	1601.4	1735.5	1844.2	1904.0	1536.2
60°	1277.2	1251.8	1231.9	1396.7	1605.1	1726.4	1817.0	1907.6	1960.1	2030.8	1663.0
62.5°	1376.8	1355.1	1338.8	1512.7	1795.3	1936.6	2000.0	2043.5	2137.7	2244.5	1695.6
65°	1512.7	1481.9	1474.6	1681.1	2023.5	2161.2	2204.7	2295.3	2369.5	2307.9	1521.7
67.5°	1626.8	1661.2	1692.0	1934.8	2338.7	2451.1	2539.8	2617.7	2434.8	1947.4	971.0
70°	1813.4	1820.6	1927.5	2239.1	2681.1	2871.3	2920.3	2635.8	1880.4	1076.1	367.7
72.5°	1757.2	1786.2	2003.6	2387.7	2898.5	3014.5	2885.8	2041.6	967.4	340.6	96.0
75°	1233.7	1271.7	1740.9	2119.5	2621.3	2514.5	2083.3	1043.5	329.7	81.5	39.9
77.5°	610.5	646.7	972.8	1364.1	1742.7	1487.3	1036.2	434.8	132.2	43.5	27.2
80°	329.7	344.2	389.5	581.5	771.7	596.0	382.2	257.2	92.4	29.0	19.9
82.5°	179.3	193.8	250.0	226.4	251.8	215.6	190.2	248.2	59.8	21.7	18.1
85°	39.9	43.5	139.5	143.1	132.2	88.8	87.0	239.1	23.6	10.9	10.9
87.5°	0.0	0.0	25.4	54.3	58.0	48.9	59.8	101.4	3.6	3.6	3.6
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°	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5
2.5°	514.5	509.1	492.7	476.4	460.1	447.5	433.0	423.9	416.7	414.9	413.0
5°	503.6	489.1	462.0	427.5	391.3	356.9	326.1	302.5	289.9	279.0	277.2
7.5°	498.2	483.7	434.8	380.4	317.0	264.5	215.6	177.5	150.4	143.1	137.7
10°	500.0	476.4	409.4	327.9	242.8	166.7	117.8	94.2	85.1	83.3	83.3
12.5°	496.4	469.2	380.4	273.5	166.7	99.6	81.5	77.9	77.9	77.9	77.9
15°	500.0	463.8	353.3	215.6	108.7	77.9	76.1	74.3	74.3	74.3	76.1
17.5°	509.1	465.6	324.3	161.2	79.7	74.3	72.5	72.5	72.5	72.5	72.5
20°	514.5	463.8	289.9	114.1	74.3	70.7	70.7	68.8	68.8	68.8	70.7
22.5°	518.1	458.3	250.0	83.3	70.7	68.8	67.0	67.0	67.0	67.0	67.0
25°	527.2	452.9	206.5	72.5	67.0	65.2	65.2	65.2	63.4	63.4	63.4
27.5°	536.2	452.9	161.2	68.8	65.2	63.4	61.6	61.6	61.6	61.6	59.8
30°	547.1	445.6	123.2	65.2	61.6	59.8	58.0	58.0	58.0	58.0	58.0
32.5°	561.6	442.0	88.8	61.6	58.0	54.3	54.3	54.3	54.3	54.3	54.3
35°	587.0	438.4	70.7	58.0	52.5	50.7	50.7	50.7	48.9	48.9	48.9
37.5°	628.6	442.0	61.6	52.5	48.9	47.1	45.3	45.3	45.3	43.5	43.5
40°	690.2	452.9	58.0	48.9	45.3	43.5	41.7	41.7	39.9	38.0	38.0
42.5°	759.0	460.1	54.3	45.3	41.7	39.9	38.0	38.0	34.4	32.6	32.6
45°	844.2	462.0	50.7	43.5	38.0	36.2	34.4	32.6	29.0	27.2	27.2
47.5°	943.8	462.0	45.3	38.0	36.2	32.6	32.6	27.2	23.6	21.7	21.7
50°	1019.9	445.6	41.7	36.2	32.6	30.8	27.2	23.6	18.1	18.1	16.3
52.5°	1056.1	405.8	39.9	32.6	29.0	27.2	23.6	18.1	14.5	12.7	12.7
55°	1086.9	362.3	36.2	30.8	27.2	23.6	19.9	14.5	10.9	9.1	9.1
57.5°	1130.4	302.5	34.4	27.2	23.6	19.9	16.3	10.9	7.2	5.4	5.4
60°	1179.3	231.9	30.8	23.6	21.7	16.3	12.7	7.2	3.6	3.6	3.6
62.5°	1125.0	139.5	27.2	21.7	18.1	14.5	9.1	5.4	1.8	1.8	1.8
65°	893.1	77.9	23.6	18.1	16.3	12.7	7.2	3.6	0.0	0.0	0.0
67.5°	500.0	47.1	19.9	16.3	14.5	9.1	5.4	1.8	0.0	0.0	0.0
70°	154.0	32.6	16.3	14.5	12.7	9.1	3.6	1.8	0.0	0.0	0.0
72.5°	41.7	23.6	12.7	10.9	10.9	7.2	3.6	1.8	0.0	0.0	0.0
75°	27.2	16.3	10.9	9.1	9.1	7.2	3.6	1.8	0.0	0.0	0.0
77.5°	19.9	14.5	9.1	7.2	7.2	7.2	3.6	1.8	0.0	0.0	0.0
80°	18.1	10.9	7.2	5.4	7.2	9.1	3.6	1.8	0.0	0.0	0.0
82.5°	18.1	10.9	5.4	5.4	7.2	9.1	3.6	1.8	0.0	0.0	0.0
85°	10.9	3.6	1.8	1.8	3.6	3.6	1.8	1.8	0.0	0.0	0.0
87.5°	1.8	1.8	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)