

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: P534587

Luminaire Tested: **GALN-SA4A-AMB-U-SL2-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-5)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - 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

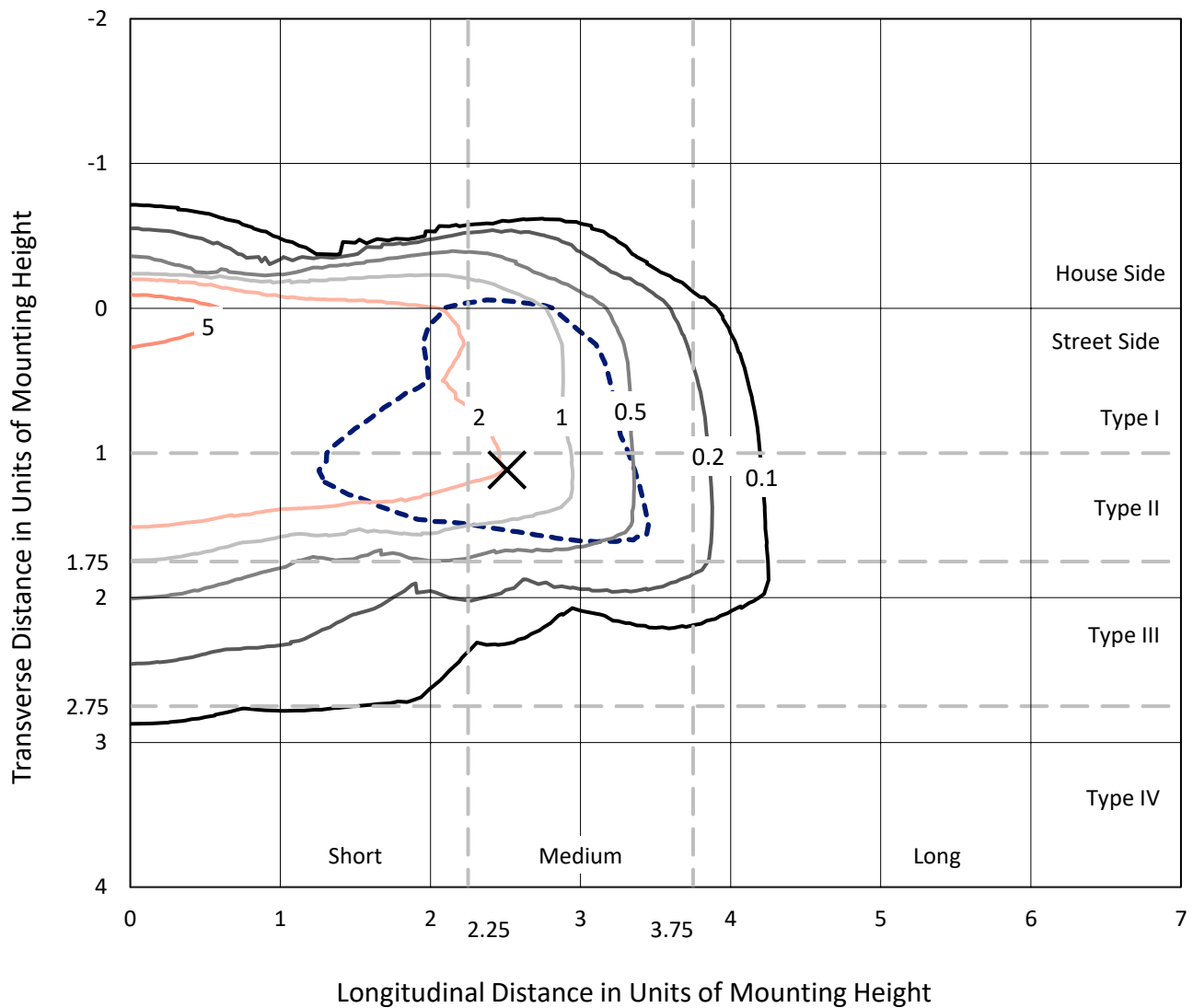


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Iso-Footcandle Lines of Horizontal Illumination

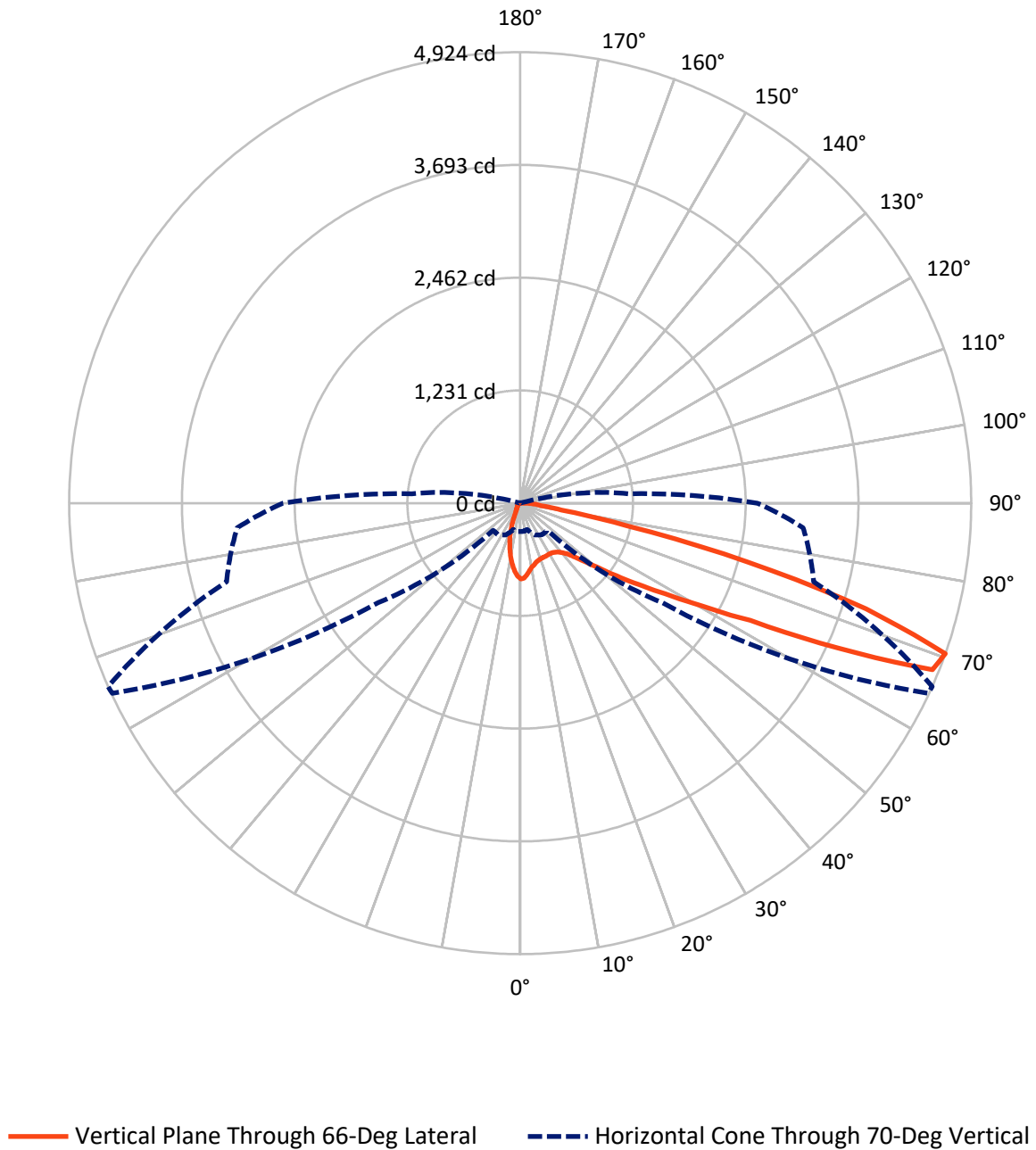
× Max cd
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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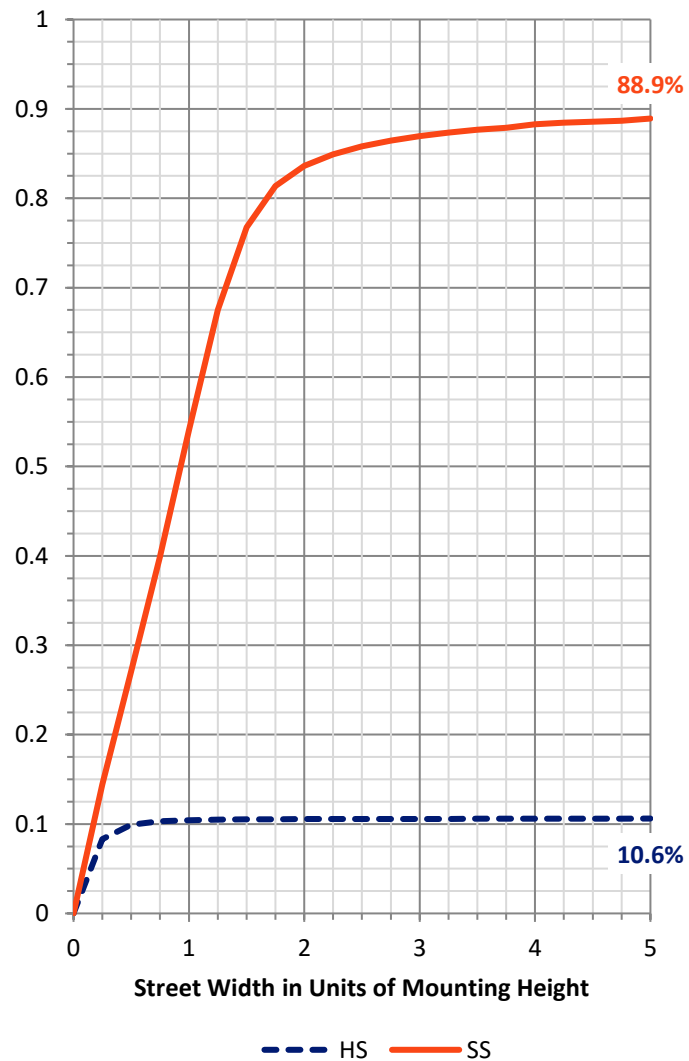
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.7	0.0	357.7
	% Fixture	10.7	0.0	10.7
Street Side	Lumens	2981.3	0.0	2981.3
	% Fixture	89.3	0.0	89.3
Total	Lumens	3339.0	0.0	3339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.9
10°-20°	129.5	3.9
20°-30°	184.9	5.5
30°-40°	269.8	8.1
40°-50°	438.7	13.1
50°-60°	756.6	22.7
60°-70°	964.1	28.9
70°-80°	482.5	14.4
80°-90°	49.7	1.5
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°	3339.0	100.0
0°-180°	3339.0	100.0

Coefficient of Utilization



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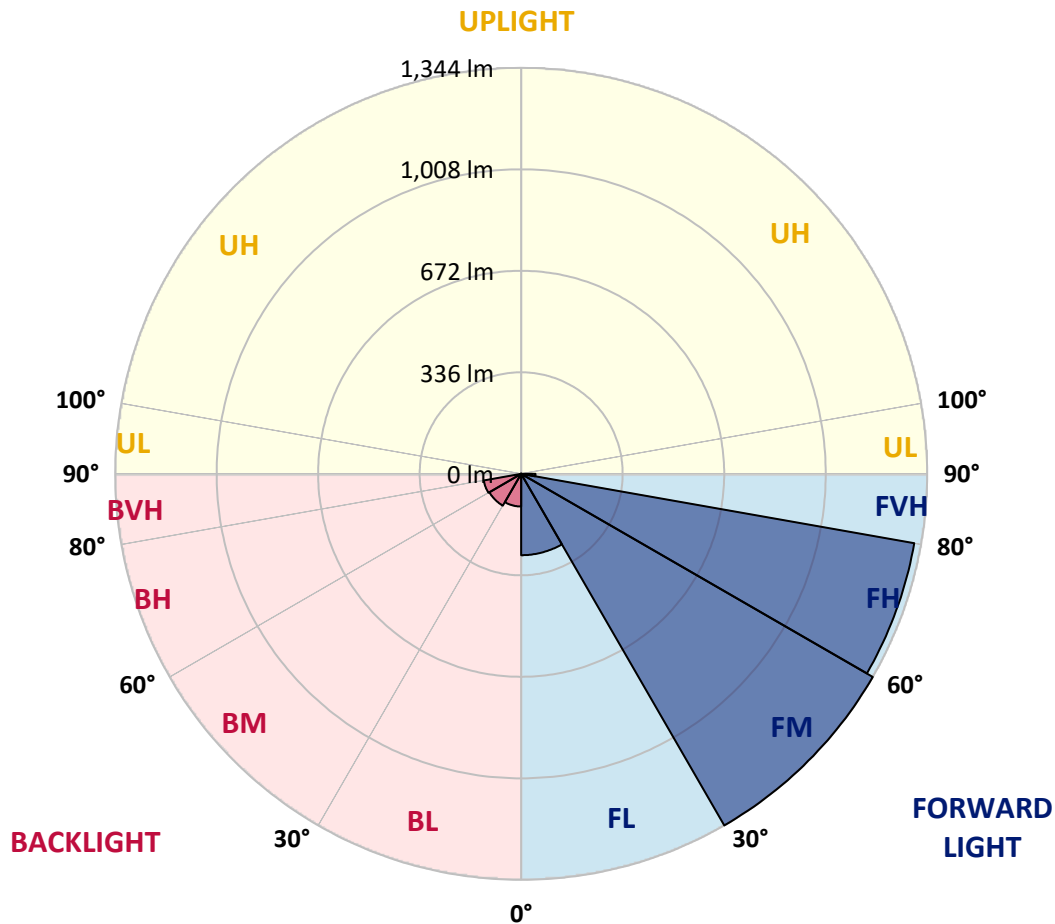
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.4	8.1			
FM	(30°-60°)	1343.6	40.2			
FH	(60°-80°)	1320.9	39.6			G1/1800
FVH	(80°-90°)	47.3	1.4			G1/100
BL	(0°-30°)	108.2	3.2	B0/110		
BM	(30°-60°)	121.5	3.6	B0/220		
BH	(60°-80°)	125.6	3.8	B1/500		G1/500
BVH	(80°-90°)	2.3	0.1			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1
2.5°	773.8	781.0	773.8	782.8	784.6	793.7	808.2	817.3	819.1	826.3	828.1
5°	714.0	714.0	717.6	724.8	733.9	744.8	757.5	770.1	784.6	802.8	819.1
7.5°	666.9	659.6	661.4	666.9	683.2	697.7	715.8	737.5	741.2	773.8	804.6
10°	616.1	614.3	617.9	630.6	641.5	654.2	675.9	703.1	706.7	743.0	797.3
12.5°	578.1	576.2	581.7	585.3	603.4	621.6	646.9	679.5	688.6	724.8	793.7
15°	549.1	549.1	552.7	561.8	576.2	598.0	623.4	661.4	665.0	712.2	801.0
17.5°	541.8	536.4	536.4	541.8	554.5	576.2	603.4	650.5	654.2	712.2	810.0
20°	543.6	540.0	536.4	532.8	543.6	569.0	594.4	639.7	645.1	712.2	826.3
22.5°	554.5	552.7	547.3	541.8	543.6	559.9	590.7	634.2	643.3	710.3	839.0
25°	583.5	579.9	574.4	559.9	550.9	559.9	590.7	634.2	643.3	708.5	849.9
27.5°	616.1	610.7	610.7	598.0	572.6	567.2	592.6	636.0	639.7	708.5	862.6
30°	668.7	663.2	657.8	643.3	614.3	588.9	603.4	639.7	639.7	710.3	866.2
32.5°	728.5	728.5	721.2	708.5	665.0	616.1	614.3	641.5	643.3	703.1	866.2
35°	799.1	799.1	804.6	790.1	733.9	659.6	639.7	654.2	657.8	710.3	858.9
37.5°	858.9	858.9	871.6	882.5	819.1	719.4	675.9	677.7	675.9	723.0	864.4
40°	927.8	929.6	949.5	971.3	931.4	797.3	730.3	712.2	710.3	739.3	882.5
42.5°	1003.9	1007.5	1042.0	1074.6	1042.0	902.4	806.4	761.1	755.6	784.6	918.7
45°	1069.1	1081.8	1134.4	1185.1	1179.7	1032.9	904.2	844.4	840.8	855.3	976.7
47.5°	1190.6	1194.2	1248.5	1317.4	1331.9	1197.8	1029.3	962.2	955.0	955.0	1071.0
50°	1317.4	1330.1	1375.4	1476.9	1547.5	1386.3	1188.7	1116.3	1110.8	1090.9	1206.9
52.5°	1380.8	1389.9	1449.7	1558.4	1761.4	1672.6	1382.6	1331.9	1317.4	1292.0	1375.4
55°	1326.5	1331.9	1380.8	1540.3	1848.3	2078.5	1676.2	1563.8	1565.7	1513.1	1632.7
57.5°	1103.6	1109.0	1150.7	1326.5	1790.4	2350.3	2109.3	1897.3	1866.5	1746.9	1862.8
60°	824.5	819.1	808.2	936.9	1438.8	2393.8	2807.0	2308.6	2274.2	1960.7	2120.2
62.5°	617.9	610.7	596.2	625.2	853.5	2107.5	3254.5	2883.1	2819.6	2210.8	2419.2
65°	480.2	471.1	473.0	487.5	532.8	1360.9	3401.3	3975.8	3810.9	2602.2	2792.5
67.5°	380.5	376.9	369.7	434.9	429.5	661.4	3002.7	4867.3	4854.6	3133.1	3270.8
70°	308.1	309.9	299.0	384.2	418.6	418.6	1893.6	4912.6	4923.5	3318.0	3100.5
72.5°	222.9	221.1	226.5	315.3	415.0	398.7	829.9	3925.0	3950.4	2919.3	2419.2
75°	121.4	126.8	148.6	228.3	413.2	389.6	407.7	2538.8	2565.9	1786.7	1177.9
77.5°	61.6	63.4	79.7	139.5	333.4	378.7	355.2	1208.7	1190.6	686.8	311.7
80°	29.0	29.0	38.1	83.4	217.5	384.2	326.2	476.6	458.5	139.5	72.5
82.5°	10.9	10.9	18.1	48.9	121.4	322.6	291.7	251.9	233.8	43.5	45.3
85°	1.8	1.8	9.1	27.2	54.4	155.8	241.0	199.3	177.6	19.9	25.4
87.5°	0.0	0.0	3.6	7.2	16.3	74.3	121.4	119.6	103.3	9.1	12.7
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°	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1	828.1
2.5°	820.9	815.4	802.8	795.5	777.4	762.9	750.2	730.3	717.6	723.0	726.7
5°	815.4	804.6	779.2	741.2	703.1	659.6	625.2	585.3	574.4	563.6	572.6
7.5°	804.6	786.5	737.5	674.1	601.6	541.8	480.2	431.3	398.7	375.1	371.5
10°	795.5	770.1	688.6	601.6	496.5	404.1	311.7	246.4	199.3	181.2	174.0
12.5°	786.5	755.6	645.1	518.3	384.2	253.7	157.7	108.7	90.6	88.8	87.0
15°	791.9	746.6	601.6	438.5	270.0	137.7	87.0	77.9	77.9	77.9	76.1
17.5°	799.1	732.1	561.8	360.6	157.7	81.5	74.3	70.7	68.9	68.9	68.9
20°	804.6	717.6	512.8	270.0	90.6	70.7	67.0	63.4	59.8	59.8	59.8
22.5°	799.1	708.5	456.7	181.2	70.7	61.6	58.0	54.4	52.6	50.7	48.9
25°	802.8	692.2	402.3	112.4	63.4	56.2	50.7	45.3	41.7	39.9	39.9
27.5°	797.3	675.9	342.5	76.1	56.2	48.9	41.7	38.1	32.6	30.8	30.8
30°	790.1	659.6	280.9	61.6	50.7	43.5	36.2	30.8	27.2	25.4	25.4
32.5°	782.8	632.4	217.5	56.2	47.1	38.1	30.8	25.4	23.6	21.7	21.7
35°	764.7	603.4	157.7	52.6	41.7	32.6	25.4	21.7	19.9	18.1	18.1
37.5°	757.5	583.5	108.7	47.1	38.1	29.0	21.7	18.1	16.3	16.3	16.3
40°	761.1	552.7	76.1	43.5	32.6	25.4	19.9	16.3	14.5	12.7	12.7
42.5°	772.0	543.6	61.6	41.7	29.0	21.7	16.3	12.7	10.9	10.9	10.9
45°	808.2	545.4	56.2	38.1	25.4	18.1	14.5	10.9	9.1	9.1	9.1
47.5°	873.4	559.9	52.6	34.4	21.7	16.3	12.7	9.1	7.2	7.2	7.2
50°	967.7	596.2	50.7	30.8	19.9	14.5	10.9	7.2	5.4	5.4	5.4
52.5°	1116.3	659.6	47.1	27.2	16.3	12.7	7.2	5.4	5.4	3.6	3.6
55°	1315.6	750.2	43.5	23.6	14.5	9.1	7.2	5.4	3.6	3.6	3.6
57.5°	1534.9	857.1	38.1	19.9	12.7	9.1	5.4	3.6	3.6	1.8	1.8
60°	1792.2	1018.4	32.6	16.3	10.9	7.2	5.4	3.6	3.6	1.8	1.8
62.5°	2112.9	1219.5	27.2	14.5	9.1	5.4	3.6	1.8	1.8	1.8	1.8
65°	2564.1	1455.1	21.7	10.9	7.2	3.6	3.6	1.8	1.8	0.0	0.0
67.5°	2866.8	1484.1	19.9	10.9	5.4	3.6	3.6	1.8	0.0	0.0	0.0
70°	2591.3	1186.9	16.3	9.1	5.4	3.6	3.6	1.8	0.0	0.0	0.0
72.5°	1844.7	683.2	14.5	7.2	5.4	3.6	3.6	1.8	1.8	0.0	0.0
75°	813.6	192.1	14.5	7.2	5.4	5.4	5.4	3.6	1.8	0.0	0.0
77.5°	195.7	59.8	12.7	7.2	7.2	7.2	7.2	3.6	1.8	0.0	0.0
80°	48.9	21.7	10.9	7.2	7.2	7.2	7.2	3.6	1.8	1.8	1.8
82.5°	36.2	16.3	10.9	9.1	7.2	5.4	5.4	3.6	1.8	1.8	1.8
85°	21.7	7.2	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
87.5°	12.7	3.6	3.6	1.8	1.8	1.8	0.0	0.0	0.0	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)