

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: P534583

Luminaire Tested: **GALN-SA3A-AMB-U-SL4-HSS**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534583
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-SA3A-AMB-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 2621 lumens
Efficiency: N/A
Efficacy: 43.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

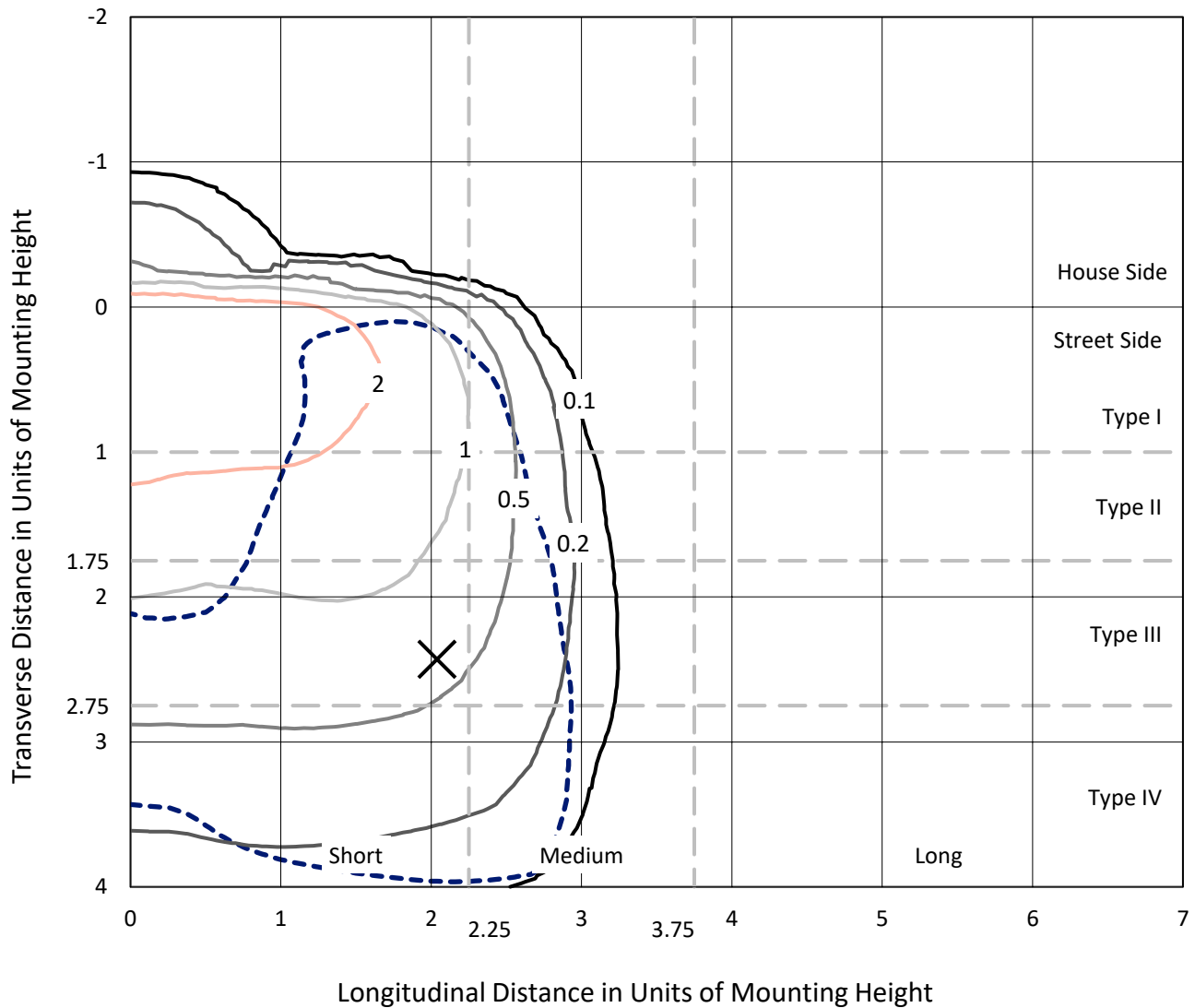
Input Watts (W): 59.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

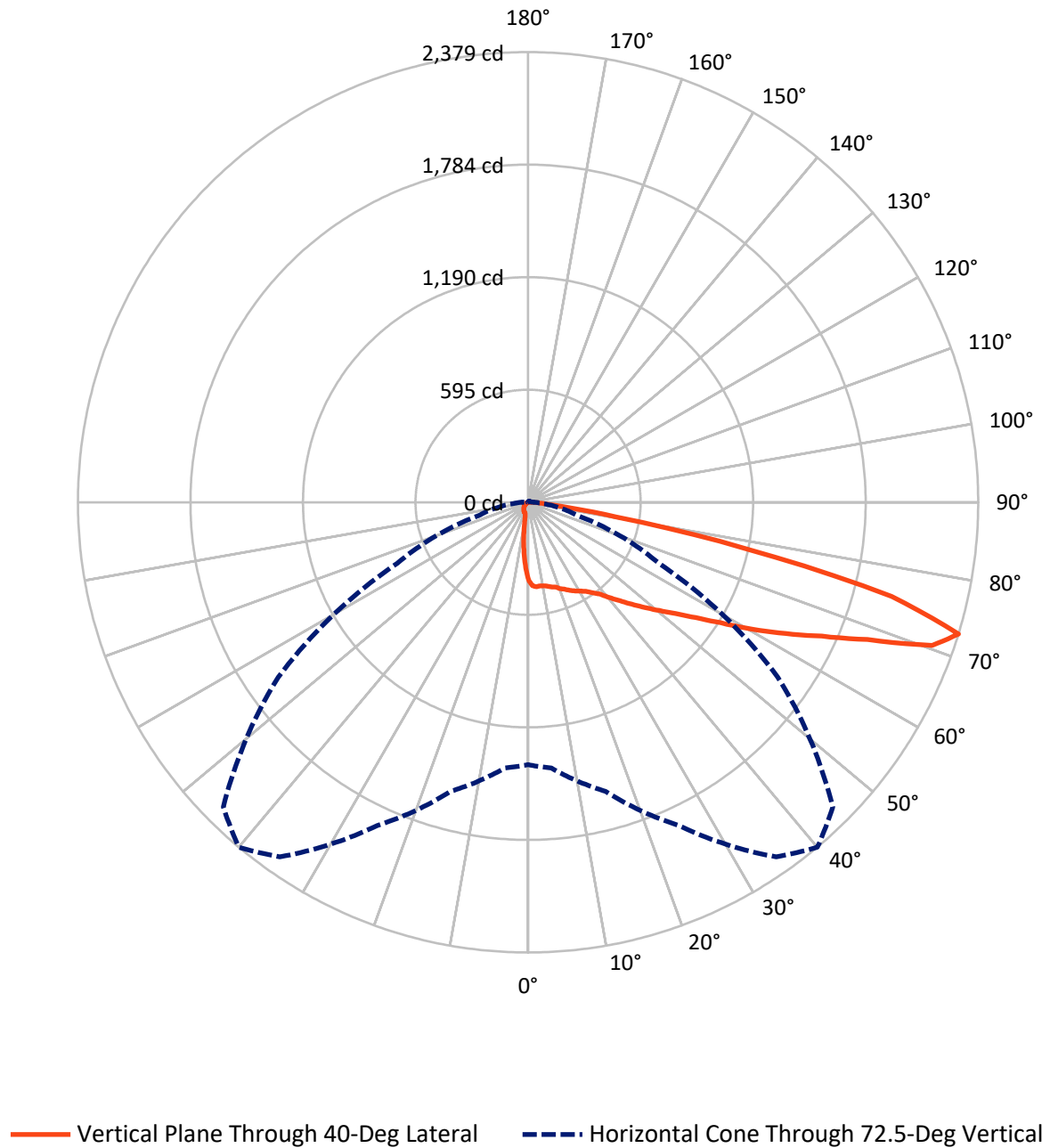
× Max cd
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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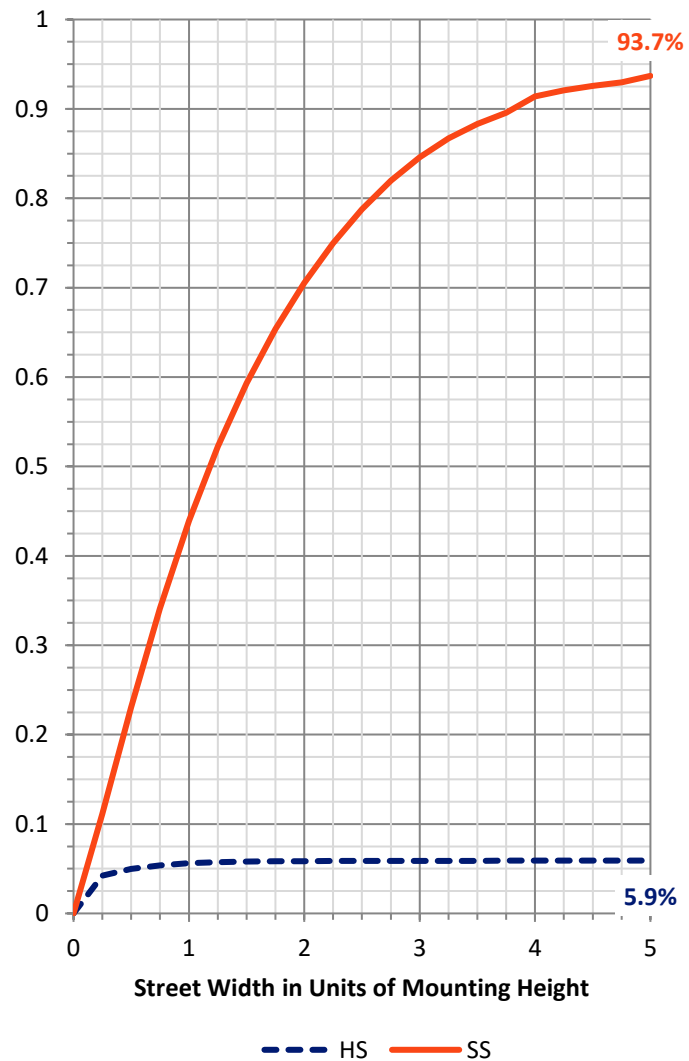
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	155.9	0.0	155.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	2465.1	0.0	2465.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	2621.0	0.0	2621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.3
10°-20°	82.5	3.1
20°-30°	136.7	5.2
30°-40°	209.2	8.0
40°-50°	334.0	12.7
50°-60°	522.3	19.9
60°-70°	749.7	28.6
70°-80°	504.7	19.3
80°-90°	48.9	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°	2621.0	100.0
0°-180°	2621.0	100.0

Coefficient of Utilization



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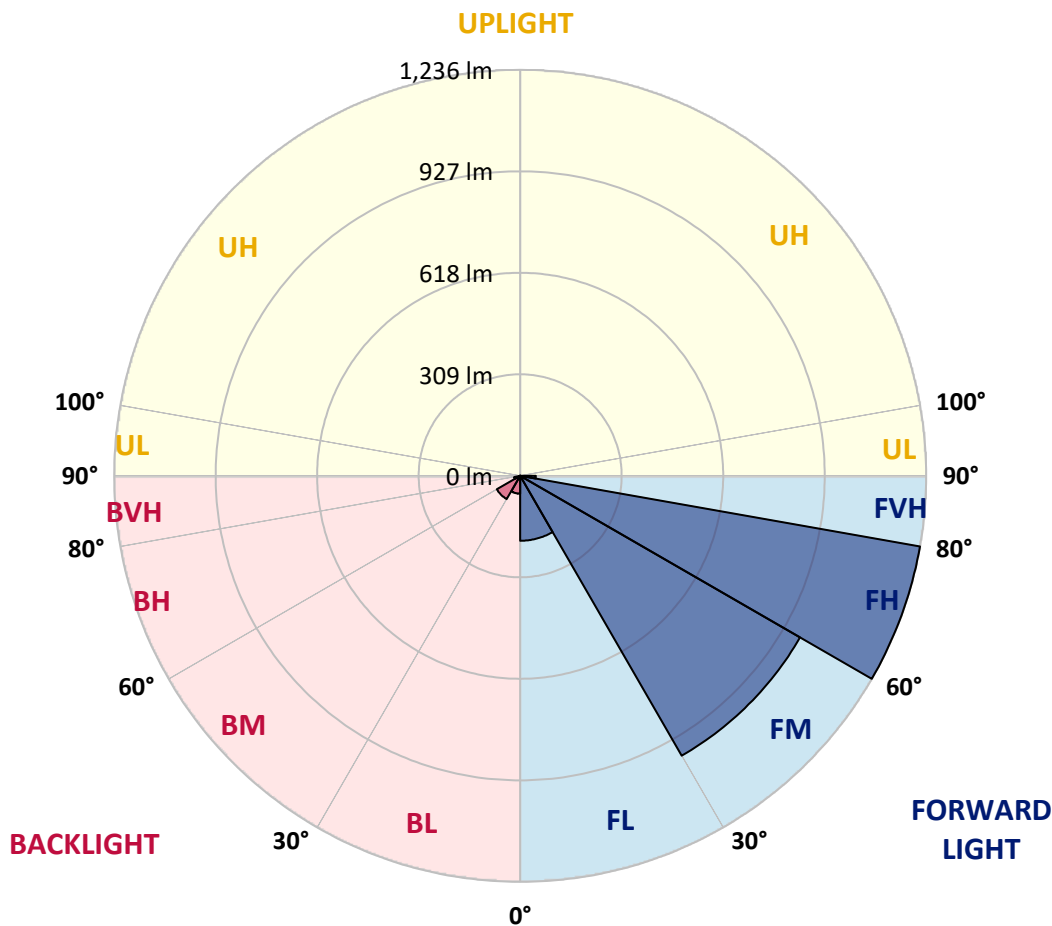
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	197.8	7.5			
FM	(30°-60°)	983.7	37.5			
FH	(60°-80°)	1235.8	47.2			G1/1800
FVH	(80°-90°)	47.8	1.8			G1/100
BL	(0°-30°)	54.4	2.1	B0/110		
BM	(30°-60°)	81.8	3.1	B0/220		
BH	(60°-80°)	18.6	0.7	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	454.7	451.8	446.1	444.6	444.6	440.4	440.4	434.6	428.9	420.3	410.3
5°	458.9	457.5	456.1	457.5	451.8	448.9	444.6	437.5	427.5	418.9	406.0
7.5°	458.9	458.9	456.1	451.8	451.8	446.1	444.6	436.1	427.5	417.5	401.8
10°	448.9	448.9	450.4	451.8	453.2	448.9	447.5	434.6	428.9	423.2	404.6
12.5°	438.9	437.5	446.1	451.8	456.1	454.7	450.4	446.1	434.6	421.8	406.0
15°	436.1	436.1	444.6	457.5	463.2	464.7	460.4	453.2	440.4	428.9	410.3
17.5°	437.5	437.5	448.9	464.7	473.2	470.4	471.8	458.9	446.1	436.1	418.9
20°	448.9	446.1	463.2	481.8	489.0	487.5	481.8	467.5	454.7	446.1	427.5
22.5°	457.5	456.1	476.1	494.7	506.1	499.0	494.7	473.2	460.4	456.1	437.5
25°	479.0	480.4	494.7	516.1	520.4	516.1	509.0	481.8	470.4	473.2	446.1
27.5°	501.8	504.7	520.4	534.7	534.7	530.4	523.3	494.7	484.7	487.5	461.8
30°	531.9	527.6	543.3	551.9	550.4	544.7	539.0	509.0	504.7	514.7	480.4
32.5°	567.6	563.3	571.9	574.8	564.7	560.5	559.0	530.4	526.1	547.6	503.3
35°	606.2	597.6	600.5	596.2	589.0	586.2	579.0	554.7	560.5	589.0	539.0
37.5°	634.8	631.9	631.9	619.1	614.8	614.8	614.8	593.3	606.2	656.2	593.3
40°	666.3	660.5	653.4	644.8	654.8	662.0	662.0	641.9	669.1	734.9	657.7
42.5°	690.6	687.7	677.7	674.8	699.1	712.0	716.3	699.1	743.5	839.3	747.7
45°	719.2	712.0	696.3	710.6	746.3	767.8	774.9	772.1	836.4	955.1	849.3
47.5°	740.6	739.2	719.2	746.3	796.4	830.7	849.3	847.8	936.5	1098.0	957.9
50°	779.2	770.6	747.7	796.4	850.7	899.3	925.0	942.2	1068.0	1235.3	1050.9
52.5°	816.4	809.2	779.2	850.7	917.9	976.5	1016.5	1073.7	1206.7	1352.5	1100.9
55°	869.3	865.0	840.7	916.5	1008.0	1075.2	1125.2	1216.7	1352.5	1432.6	1146.6
57.5°	935.0	917.9	909.3	1003.7	1122.3	1201.0	1263.9	1369.7	1455.5	1502.6	1212.4
60°	1008.0	987.9	972.2	1102.3	1266.7	1362.5	1434.0	1505.5	1547.0	1602.7	1312.5
62.5°	1086.6	1069.4	1056.6	1193.8	1416.9	1528.4	1578.4	1612.7	1687.1	1771.4	1338.2
65°	1193.8	1169.5	1163.8	1326.8	1597.0	1705.7	1740.0	1811.5	1870.1	1821.5	1201.0
67.5°	1283.9	1311.1	1335.4	1527.0	1845.8	1934.4	2004.5	2066.0	1921.6	1537.0	766.3
70°	1431.2	1436.9	1521.2	1767.1	2116.0	2266.1	2304.7	2080.3	1484.1	849.3	290.2
72.5°	1386.8	1409.7	1581.3	1884.4	2287.6	2379.1	2277.6	1611.3	763.5	268.8	75.8
75°	973.6	1003.7	1374.0	1672.8	2068.8	1984.5	1644.2	823.5	260.2	64.3	31.5
77.5°	481.8	510.4	767.8	1076.6	1375.4	1173.8	817.8	343.1	104.4	34.3	21.4
80°	260.2	271.6	307.4	458.9	609.1	470.4	301.7	203.0	72.9	22.9	15.7
82.5°	141.5	153.0	197.3	178.7	198.7	170.1	150.1	195.9	47.2	17.2	14.3
85°	31.5	34.3	110.1	112.9	104.4	70.1	68.6	188.7	18.6	8.6	8.6
87.5°	0.0	0.0	20.0	42.9	45.8	38.6	47.2	80.1	2.9	2.9	2.9
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°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	406.0	401.8	388.9	376.0	363.2	353.1	341.7	334.6	328.8	327.4	326.0
5°	397.5	386.0	364.6	337.4	308.8	281.7	257.4	238.8	228.8	220.2	218.7
7.5°	393.2	381.7	343.1	300.2	250.2	208.7	170.1	140.1	118.7	112.9	108.7
10°	394.6	376.0	323.1	258.8	191.6	131.5	92.9	74.3	67.2	65.8	65.8
12.5°	391.7	370.3	300.2	215.9	131.5	78.6	64.3	61.5	61.5	61.5	61.5
15°	394.6	366.0	278.8	170.1	85.8	61.5	60.0	58.6	58.6	58.6	60.0
17.5°	401.8	367.4	255.9	127.2	62.9	58.6	57.2	57.2	57.2	57.2	57.2
20°	406.0	366.0	228.8	90.1	58.6	55.8	55.8	54.3	54.3	54.3	55.8
22.5°	408.9	361.7	197.3	65.8	55.8	54.3	52.9	52.9	52.9	52.9	52.9
25°	416.1	357.4	163.0	57.2	52.9	51.5	51.5	51.5	50.0	50.0	50.0
27.5°	423.2	357.4	127.2	54.3	51.5	50.0	48.6	48.6	48.6	48.6	47.2
30°	431.8	351.7	97.2	51.5	48.6	47.2	45.8	45.8	45.8	45.8	45.8
32.5°	443.2	348.9	70.1	48.6	45.8	42.9	42.9	42.9	42.9	42.9	42.9
35°	463.2	346.0	55.8	45.8	41.5	40.0	40.0	40.0	38.6	38.6	38.6
37.5°	496.1	348.9	48.6	41.5	38.6	37.2	35.7	35.7	35.7	34.3	34.3
40°	544.7	357.4	45.8	38.6	35.7	34.3	32.9	32.9	31.5	30.0	30.0
42.5°	599.1	363.2	42.9	35.7	32.9	31.5	30.0	30.0	27.2	25.7	25.7
45°	666.3	364.6	40.0	34.3	30.0	28.6	27.2	25.7	22.9	21.4	21.4
47.5°	744.9	364.6	35.7	30.0	28.6	25.7	25.7	21.4	18.6	17.2	17.2
50°	804.9	351.7	32.9	28.6	25.7	24.3	21.4	18.6	14.3	14.3	12.9
52.5°	833.5	320.3	31.5	25.7	22.9	21.4	18.6	14.3	11.4	10.0	10.0
55°	857.8	285.9	28.6	24.3	21.4	18.6	15.7	11.4	8.6	7.1	7.1
57.5°	892.2	238.8	27.2	21.4	18.6	15.7	12.9	8.6	5.7	4.3	4.3
60°	930.8	183.0	24.3	18.6	17.2	12.9	10.0	5.7	2.9	2.9	2.9
62.5°	887.9	110.1	21.4	17.2	14.3	11.4	7.1	4.3	1.4	1.4	1.4
65°	704.9	61.5	18.6	14.3	12.9	10.0	5.7	2.9	0.0	0.0	0.0
67.5°	394.6	37.2	15.7	12.9	11.4	7.1	4.3	1.4	0.0	0.0	0.0
70°	121.5	25.7	12.9	11.4	10.0	7.1	2.9	1.4	0.0	0.0	0.0
72.5°	32.9	18.6	10.0	8.6	8.6	5.7	2.9	1.4	0.0	0.0	0.0
75°	21.4	12.9	8.6	7.1	7.1	5.7	2.9	1.4	0.0	0.0	0.0
77.5°	15.7	11.4	7.1	5.7	5.7	5.7	2.9	1.4	0.0	0.0	0.0
80°	14.3	8.6	5.7	4.3	5.7	7.1	2.9	1.4	0.0	0.0	0.0
82.5°	14.3	8.6	4.3	4.3	5.7	7.1	2.9	1.4	0.0	0.0	0.0
85°	8.6	2.9	1.4	1.4	2.9	2.9	1.4	1.4	0.0	0.0	0.0
87.5°	1.4	1.4	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)