

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: P534582

Luminaire Tested: **GALN-SA3A-AMB-U-SL3**

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534582
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-SA3A-AMB-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) NARROW BAND AMBER, 500mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3224 lumens
Efficiency: N/A
Efficacy: 53.9 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): 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

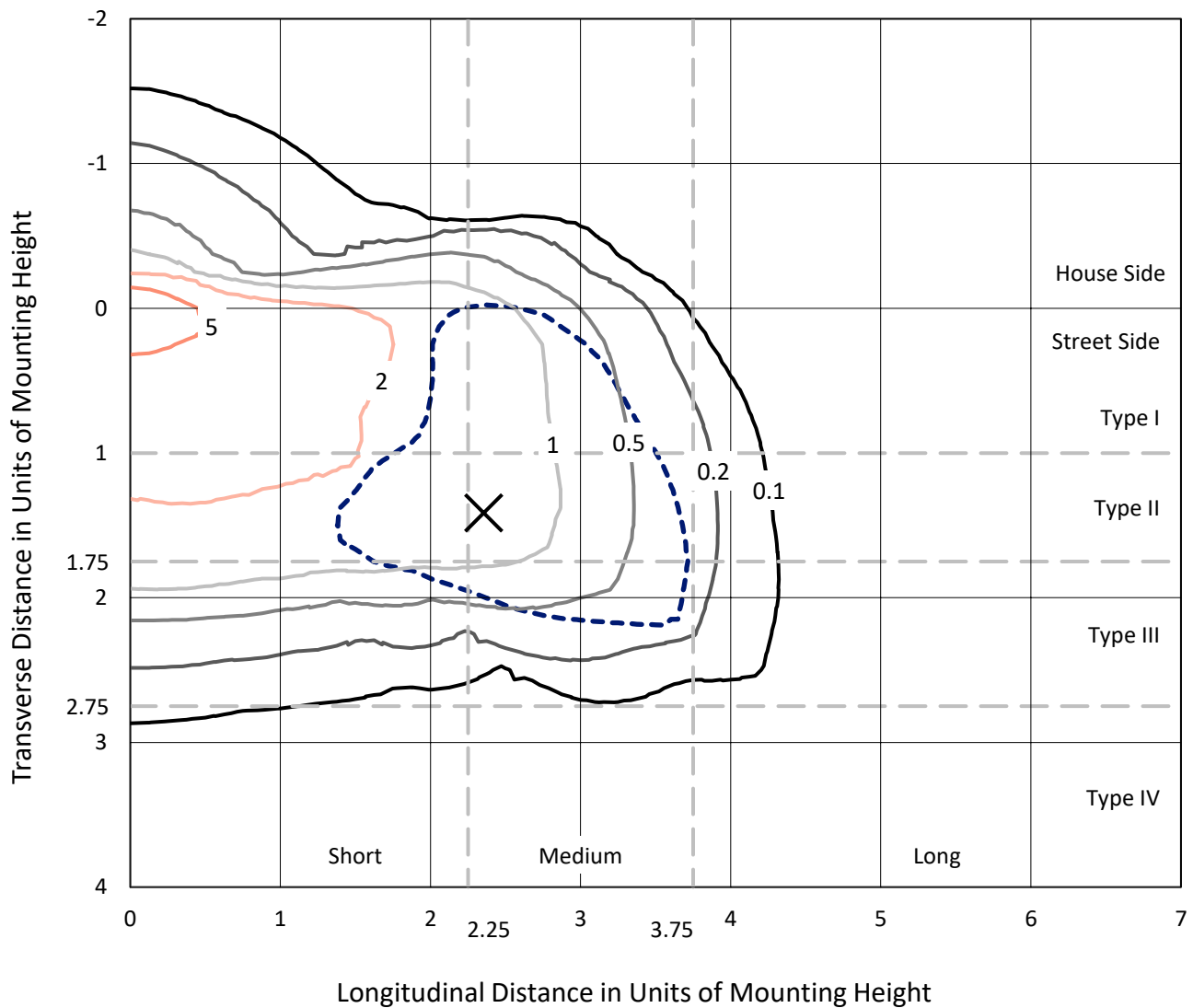


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

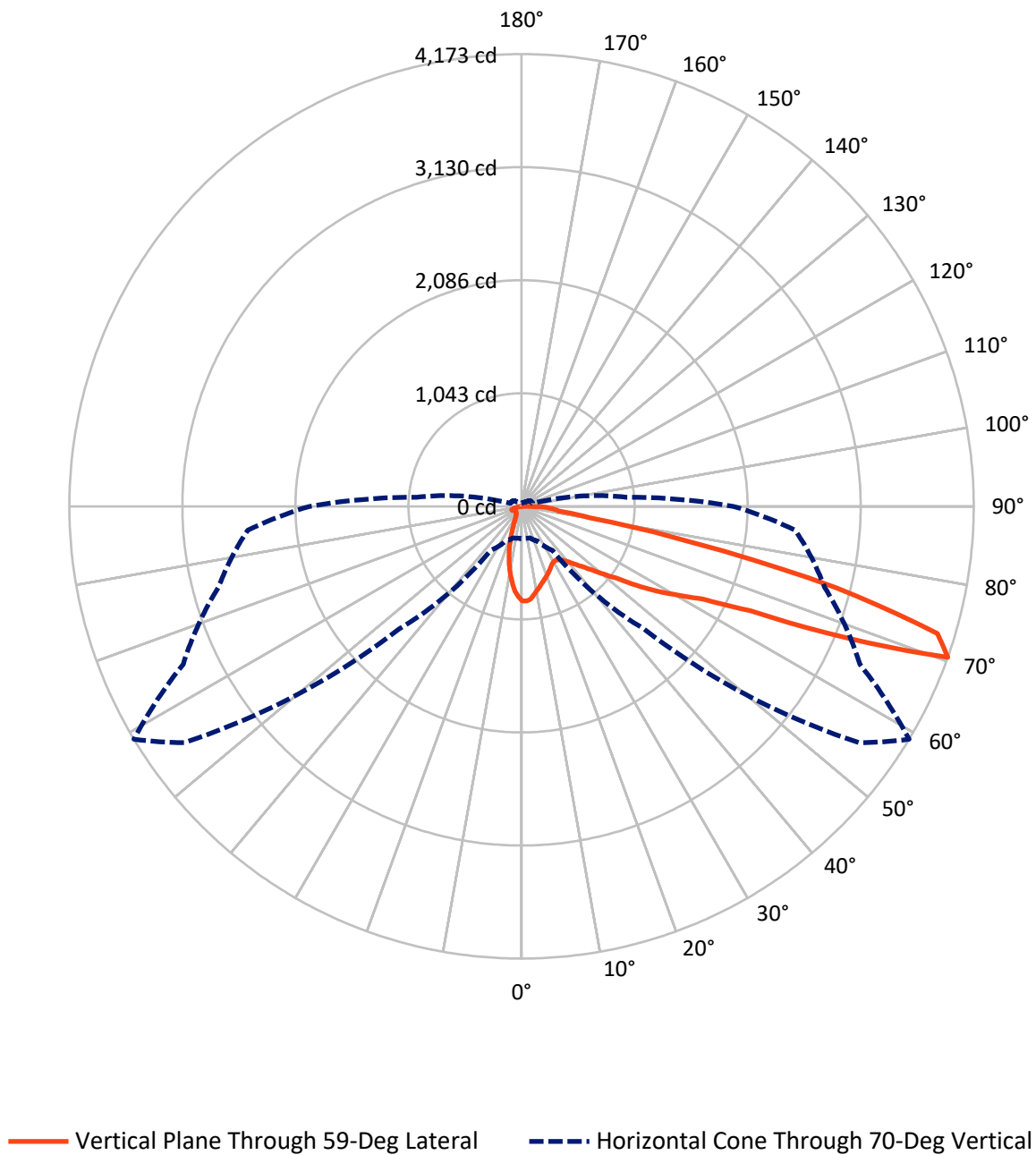


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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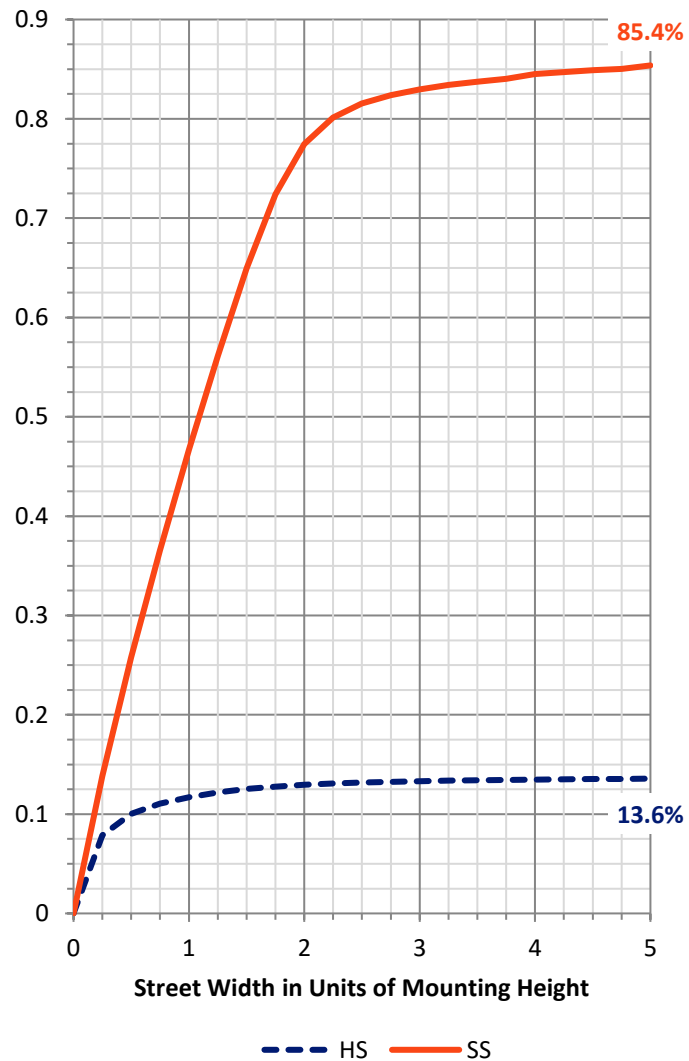
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.8	0.0	441.8
	% Fixture	13.7	0.0	13.7
Street Side	Lumens	2782.2	0.0	2782.2
	% Fixture	86.3	0.0	86.3
Total	Lumens	3224.0	0.0	3224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	2.2
10°-20°	149.8	4.6
20°-30°	189.3	5.9
30°-40°	247.7	7.7
40°-50°	368.0	11.4
50°-60°	602.9	18.7
60°-70°	938.0	29.1
70°-80°	581.0	18.0
80°-90°	75.7	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°	3224.0	100.0
0°-180°	3224.0	100.0

Coefficient of Utilization



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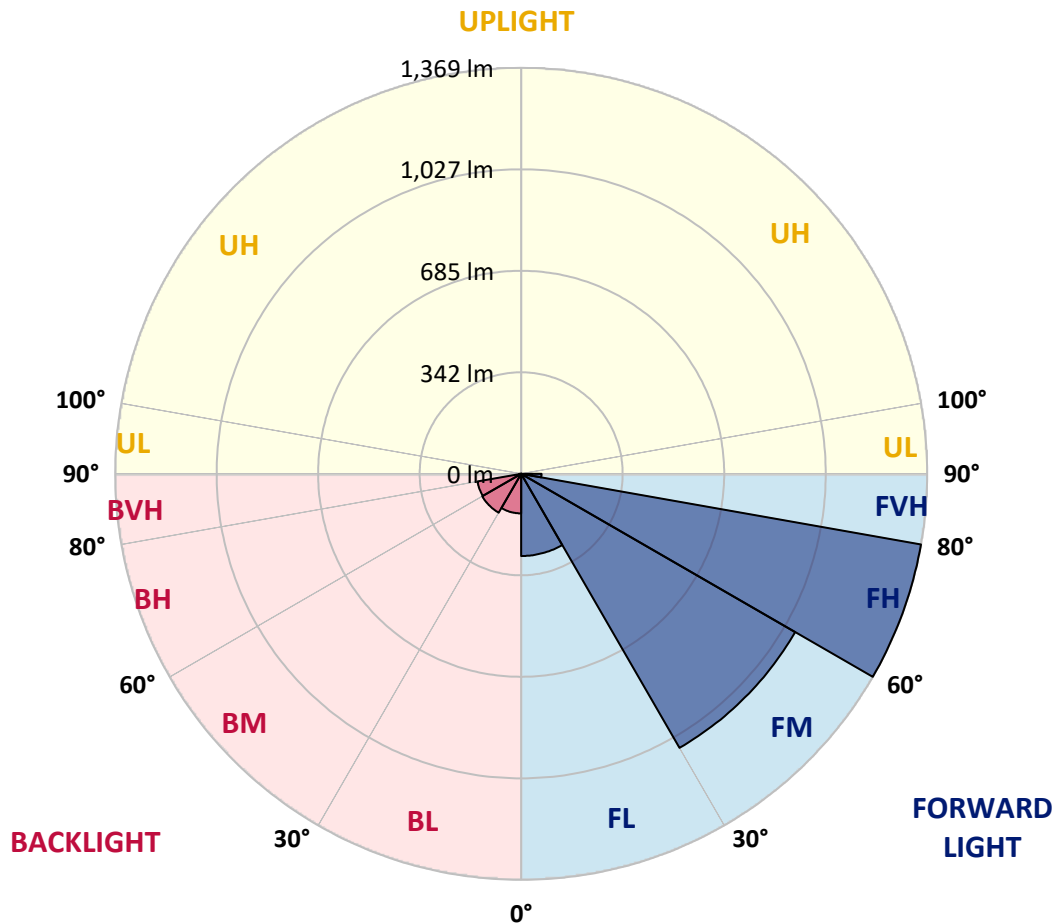
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.2	8.6			
FM	(30°-60°)	1067.1	33.1			
FH	(60°-80°)	1369.4	42.5			G1/1800
FVH	(80°-90°)	68.5	2.1			G1/100
BL	(0°-30°)	133.5	4.1	B1/500		
BM	(30°-60°)	151.5	4.7	B0/220		
BH	(60°-80°)	149.6	4.6	B1/500		G1/500
BVH	(80°-90°)	7.3	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°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	876.3	876.3	876.3	869.2	882.0	877.7	879.2	874.9	877.7	873.5	869.2
5°	833.4	833.4	830.6	832.0	843.4	852.0	857.7	860.6	854.9	857.7	849.2
7.5°	762.0	767.7	769.1	776.2	790.5	806.3	816.3	823.4	826.3	827.7	817.7
10°	694.8	696.2	706.2	714.8	739.1	757.7	780.5	786.3	794.8	806.3	796.3
12.5°	646.2	653.3	656.2	667.6	693.3	714.8	741.9	756.2	769.1	790.5	786.3
15°	601.8	600.4	606.1	624.7	651.9	683.3	714.8	726.2	746.2	774.8	769.1
17.5°	567.5	567.5	574.7	590.4	611.8	644.7	687.6	700.5	727.6	764.8	753.4
20°	550.4	551.8	554.7	559.0	576.1	614.7	654.7	676.2	706.2	756.2	741.9
22.5°	547.5	546.1	544.7	546.1	556.1	577.5	623.3	650.4	690.5	751.9	727.6
25°	551.8	550.4	548.9	547.5	547.5	561.8	601.8	624.7	671.9	750.5	713.3
27.5°	563.2	566.1	559.0	551.8	544.7	550.4	577.5	601.8	653.3	756.2	706.2
30°	583.3	584.7	581.8	571.8	557.5	550.4	567.5	589.0	637.6	762.0	700.5
32.5°	606.1	606.1	606.1	597.6	580.4	560.4	569.0	589.0	636.2	776.2	696.2
35°	630.4	636.2	636.2	627.6	613.3	580.4	586.1	604.7	647.6	794.8	707.6
37.5°	664.7	666.2	664.7	666.2	650.4	616.1	617.6	633.3	667.6	822.0	724.8
40°	697.6	693.3	703.3	711.9	701.9	663.3	659.0	676.2	703.3	866.3	756.2
42.5°	727.6	729.1	736.2	751.9	760.5	724.8	717.6	730.5	749.1	919.2	809.1
45°	756.2	760.5	787.7	804.8	822.0	786.3	782.0	796.3	816.3	982.1	887.8
47.5°	782.0	784.8	819.1	860.6	890.6	874.9	869.2	879.2	889.2	1073.6	986.4
50°	806.3	816.3	860.6	913.5	964.9	982.1	970.7	982.1	980.7	1166.5	1095.0
52.5°	873.5	883.5	932.1	985.0	1045.0	1092.2	1110.8	1103.6	1093.6	1269.4	1219.4
55°	1019.3	1015.0	1040.7	1073.6	1142.2	1203.7	1295.2	1283.7	1239.4	1376.7	1342.3
57.5°	1162.2	1185.1	1185.1	1176.5	1245.1	1350.9	1472.4	1475.3	1391.0	1492.5	1488.2
60°	1219.4	1245.1	1303.8	1380.9	1462.4	1519.6	1662.6	1662.6	1545.3	1624.0	1638.3
62.5°	1087.9	1125.1	1216.5	1373.8	1665.4	1967.1	1951.3	1885.6	1752.6	1812.7	1875.6
65°	671.9	681.9	796.3	1107.9	1588.2	2364.5	2508.9	2318.7	2068.6	2131.5	2268.7
67.5°	404.6	410.3	436.0	569.0	1009.3	2323.0	3370.9	3246.5	2649.0	2573.2	2588.9
70°	298.8	294.5	301.6	356.0	494.6	1602.5	3801.2	4172.9	3443.8	2896.3	2536.0
72.5°	237.3	240.2	243.0	295.9	368.8	666.2	3312.3	4012.8	3696.8	2727.6	1921.3
75°	185.8	187.3	201.6	250.2	353.1	358.8	2097.2	2997.8	2749.0	1842.7	843.4
77.5°	138.7	143.0	157.3	208.7	338.8	344.5	913.5	1642.6	1396.7	757.7	225.9
80°	91.5	92.9	107.2	171.5	320.2	346.0	413.1	643.3	430.3	161.5	82.9
82.5°	51.5	54.3	67.2	107.2	264.5	335.9	347.4	344.5	195.8	80.1	44.3
85°	28.6	28.6	40.0	62.9	157.3	325.9	328.8	290.2	135.8	44.3	24.3
87.5°	12.9	12.9	18.6	28.6	74.3	215.9	243.0	207.3	85.8	18.6	8.6
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°	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5	873.5
2.5°	862.0	856.3	849.2	833.4	832.0	820.6	817.7	804.8	797.7	807.7	799.1
5°	846.3	839.1	812.0	802.0	767.7	746.2	730.5	710.5	696.2	696.2	697.6
7.5°	816.3	803.4	766.2	730.5	687.6	651.9	616.1	576.1	557.5	554.7	541.8
10°	789.1	769.1	717.6	661.9	603.3	540.4	486.0	433.2	391.7	361.7	363.1
12.5°	766.2	741.9	671.9	596.1	508.9	428.9	347.4	284.5	243.0	233.0	233.0
15°	749.1	709.1	620.4	521.8	418.9	314.5	235.9	191.6	171.5	161.5	161.5
17.5°	721.9	671.9	569.0	450.3	320.2	221.6	174.4	154.4	145.8	143.0	141.5
20°	694.8	637.6	501.8	361.7	231.6	161.5	141.5	132.9	130.1	130.1	131.5
22.5°	670.5	594.7	437.4	271.6	165.8	132.9	121.5	118.7	120.1	122.9	121.5
25°	647.6	559.0	374.5	198.7	128.7	111.5	108.6	108.6	111.5	114.4	115.8
27.5°	626.1	531.8	305.9	147.2	108.6	98.6	98.6	101.5	105.8	107.2	108.6
30°	610.4	500.3	241.6	117.2	94.4	91.5	91.5	94.4	95.8	98.6	98.6
32.5°	597.6	474.6	184.4	100.1	87.2	85.8	85.8	87.2	88.6	90.1	91.5
35°	593.3	447.4	144.4	88.6	82.9	81.5	81.5	81.5	82.9	84.3	84.3
37.5°	597.6	427.4	117.2	82.9	78.6	77.2	77.2	77.2	77.2	77.2	77.2
40°	617.6	413.1	101.5	80.1	75.8	74.3	72.9	72.9	72.9	74.3	74.3
42.5°	659.0	400.3	94.4	77.2	74.3	71.5	70.0	68.6	68.6	71.5	71.5
45°	714.8	401.7	90.1	75.8	72.9	68.6	65.8	65.8	67.2	70.0	71.5
47.5°	784.8	416.0	87.2	74.3	70.0	65.8	64.3	64.3	65.8	70.0	70.0
50°	870.6	443.2	87.2	74.3	70.0	64.3	62.9	62.9	64.3	68.6	70.0
52.5°	967.8	490.3	88.6	74.3	70.0	64.3	61.5	61.5	62.9	67.2	67.2
55°	1095.0	556.1	91.5	75.8	68.6	64.3	61.5	58.6	60.0	62.9	62.9
57.5°	1206.5	653.3	95.8	75.8	68.6	64.3	60.0	55.8	55.8	58.6	58.6
60°	1383.8	787.7	112.9	80.1	68.6	61.5	55.8	51.5	51.5	52.9	52.9
62.5°	1619.7	1016.4	130.1	87.2	72.9	60.0	52.9	48.6	47.2	47.2	47.2
65°	2015.7	1268.0	132.9	95.8	80.1	60.0	48.6	44.3	42.9	42.9	42.9
67.5°	2170.1	1272.3	121.5	100.1	88.6	60.0	47.2	41.5	38.6	38.6	38.6
70°	1955.6	970.7	107.2	100.1	92.9	58.6	45.7	40.0	35.7	34.3	34.3
72.5°	1332.3	517.5	95.8	94.4	82.9	51.5	44.3	37.2	32.9	31.5	30.0
75°	533.2	180.1	82.9	85.8	64.3	41.5	37.2	32.9	30.0	27.2	27.2
77.5°	134.4	88.6	62.9	67.2	45.7	32.9	31.5	30.0	25.7	24.3	24.3
80°	74.3	60.0	47.2	45.7	30.0	22.9	22.9	22.9	21.4	20.0	20.0
82.5°	41.5	37.2	31.5	28.6	20.0	15.7	15.7	15.7	15.7	14.3	12.9
85°	22.9	21.4	18.6	14.3	11.4	8.6	8.6	8.6	8.6	7.1	7.1
87.5°	8.6	8.6	7.1	4.3	2.9	1.4	1.4	1.4	1.4	1.4	1.4
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)