

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: P534588

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

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-4)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127 lumens
Efficiency: N/A
Efficacy: 51.7 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

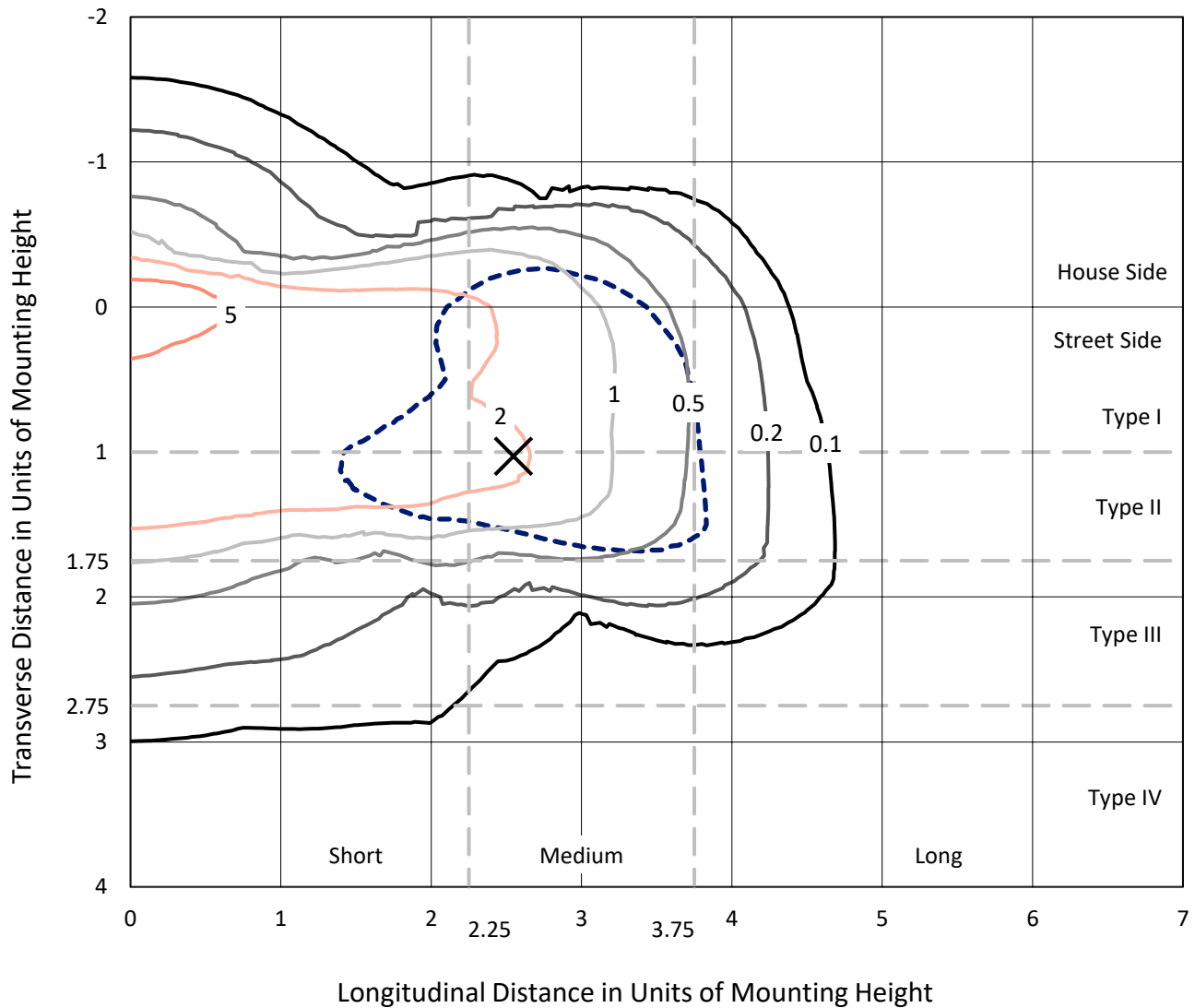


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Iso-Footcandle Lines of Horizontal Illumination

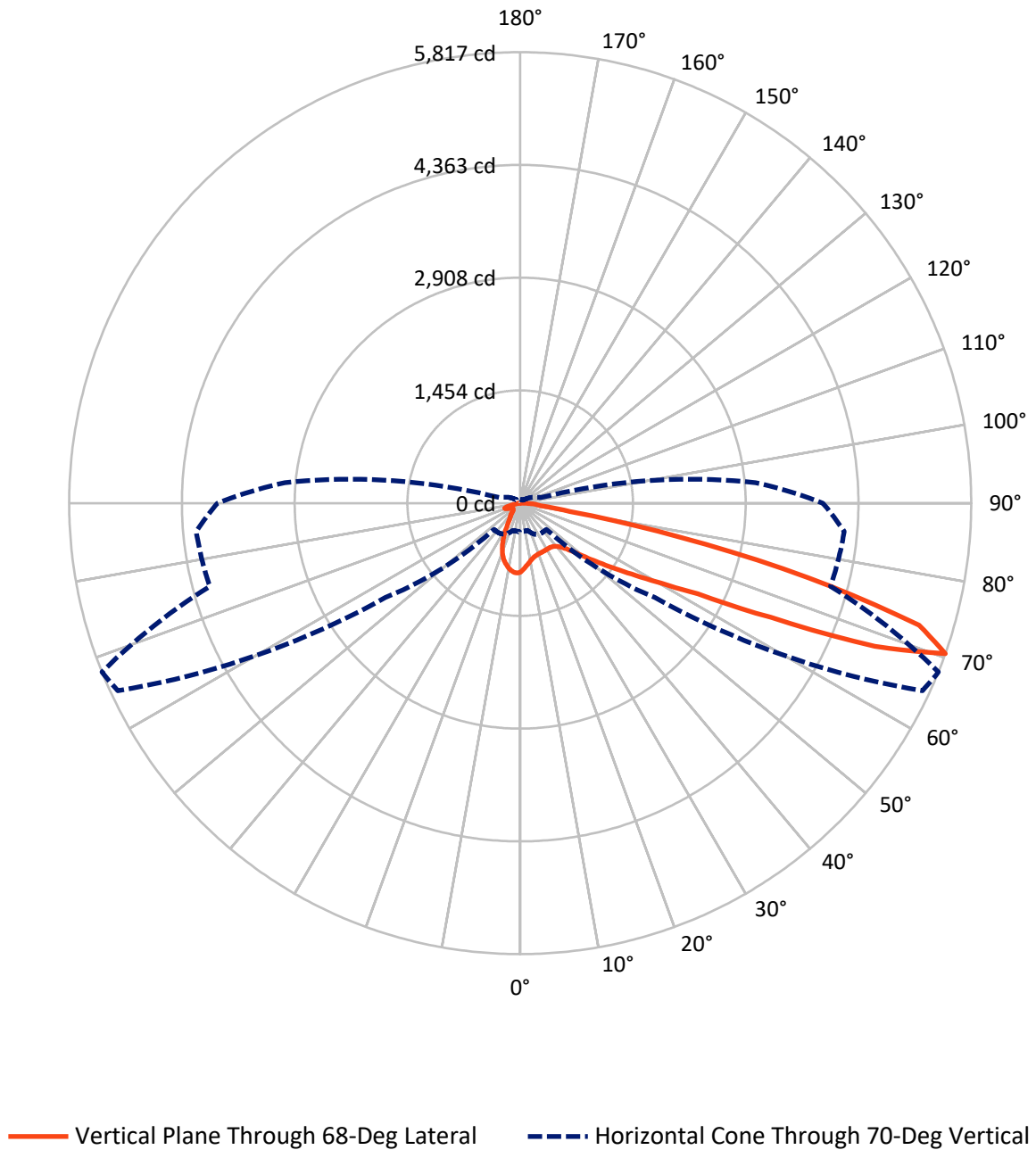
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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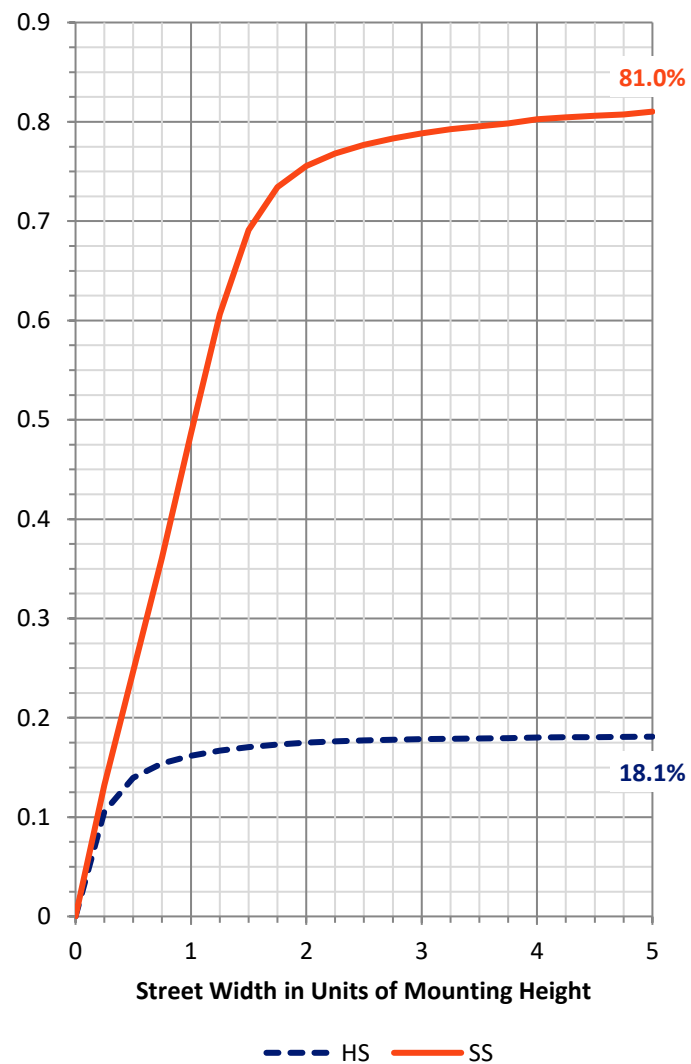
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.8	0.0	754.8
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	3372.1	0.0	3372.1
	% Fixture	81.7	0.0	81.7
Total	Lumens	4127.0	0.0	4127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.8
10°-20°	173.3	4.2
20°-30°	233.5	5.7
30°-40°	321.0	7.8
40°-50°	487.9	11.8
50°-60°	811.2	19.7
60°-70°	1140.4	27.6
70°-80°	789.1	19.1
80°-90°	95.0	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°	4127.0	100.0
0°-180°	4127.0	100.0

Coefficient of Utilization



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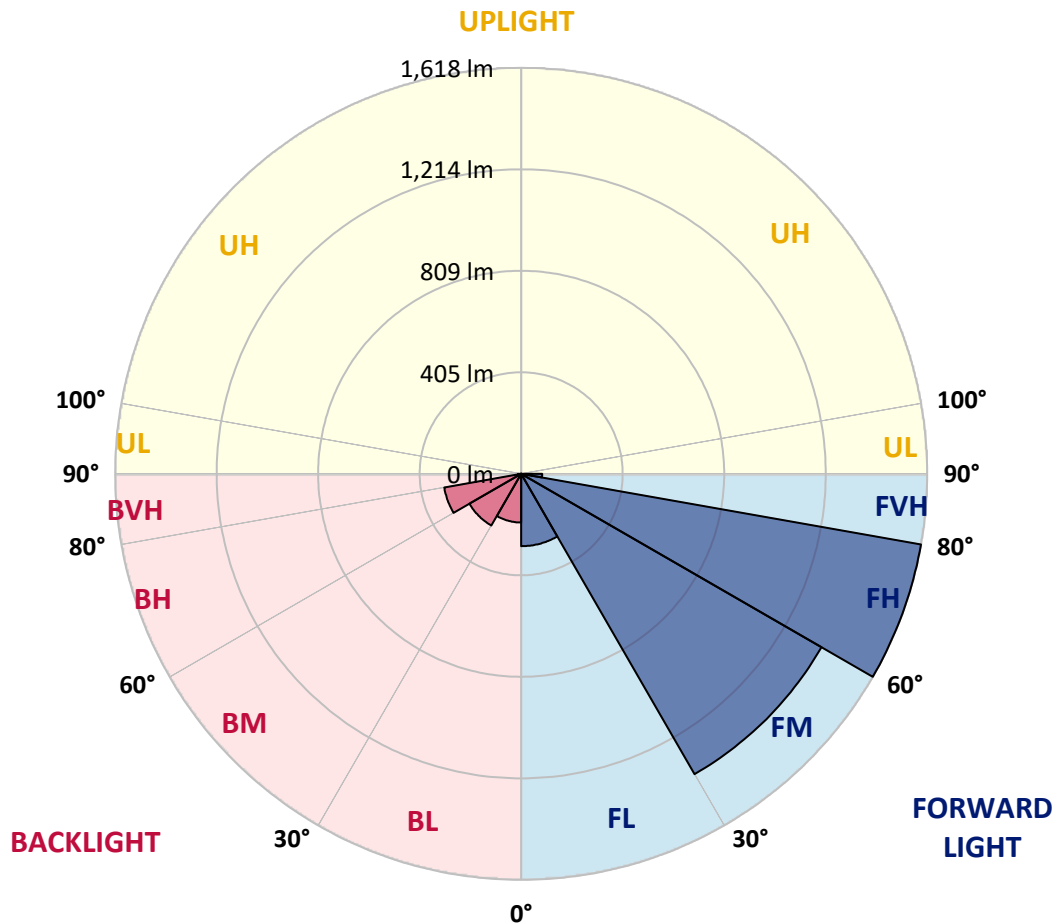
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.4	7.0			
FM	(30°-60°)	1382.2	33.5			
FH	(60°-80°)	1618.1	39.2			G1/1800
FVH	(80°-90°)	83.5	2.0			G1/100
BL	(0°-30°)	194.1	4.7	B1/500		
BM	(30°-60°)	237.9	5.8	B1/1000		
BH	(60°-80°)	311.4	7.5	B1/500		G1/500
BVH	(80°-90°)	11.5	0.3			G1/100
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°	68°	75°	85°
0°	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6
2.5°	806.1	804.3	807.9	807.9	813.4	824.2	831.5	844.2	853.2	862.3	873.2
5°	742.7	740.9	748.2	750.0	764.5	780.8	791.6	809.8	813.4	831.5	856.9
7.5°	692.0	692.0	693.8	702.9	713.7	726.4	746.4	769.9	784.4	806.1	851.4
10°	652.2	650.3	655.8	659.4	675.7	690.2	711.9	739.1	751.8	777.1	840.6
12.5°	619.5	617.7	621.4	628.6	643.1	655.8	679.3	719.2	728.2	759.0	838.7
15°	597.8	596.0	597.8	605.1	617.7	635.8	661.2	693.8	710.1	751.8	844.2
17.5°	590.6	588.7	586.9	588.7	601.4	614.1	646.7	684.8	701.1	750.0	855.0
20°	596.0	592.4	588.7	588.7	590.6	606.9	639.5	675.7	695.6	742.7	869.5
22.5°	612.3	610.5	603.2	594.2	590.6	603.2	634.0	675.7	692.0	744.5	878.6
25°	641.3	637.7	630.4	617.7	605.1	606.9	635.8	673.9	690.2	744.5	891.3
27.5°	675.7	670.3	664.8	652.2	626.8	615.9	634.0	679.3	688.4	739.1	900.3
30°	728.2	726.4	715.6	699.3	664.8	632.2	644.9	675.7	688.4	733.7	905.8
32.5°	791.6	789.8	782.6	764.5	715.6	664.8	657.6	679.3	688.4	731.9	911.2
35°	855.0	853.2	858.7	844.2	789.8	710.1	681.1	690.2	693.8	735.5	911.2
37.5°	913.0	911.2	916.6	932.9	878.6	775.3	717.4	706.5	706.5	740.9	920.3
40°	974.6	976.4	1000.0	1016.3	990.9	855.0	764.5	737.3	733.7	768.1	936.6
42.5°	1045.3	1038.0	1079.7	1117.7	1092.4	961.9	838.7	784.4	773.5	804.3	972.8
45°	1094.2	1112.3	1150.3	1224.6	1222.8	1088.7	945.6	864.1	844.2	864.1	1039.8
47.5°	1195.6	1193.8	1244.5	1340.5	1364.1	1242.7	1068.8	972.8	945.6	956.5	1128.6
50°	1322.4	1317.0	1376.8	1481.8	1554.3	1414.8	1235.5	1123.1	1092.4	1092.4	1264.4
52.5°	1400.3	1405.7	1452.8	1594.1	1773.5	1670.2	1420.2	1304.3	1273.5	1275.3	1442.0
55°	1355.0	1360.5	1414.8	1581.5	1885.8	2077.8	1659.4	1543.4	1489.1	1467.3	1686.5
57.5°	1164.8	1153.9	1197.4	1393.1	1835.1	2389.4	2146.7	1820.6	1759.0	1722.8	1965.5
60°	865.9	858.7	862.3	985.5	1519.9	2481.8	2927.4	2204.6	2094.1	2012.6	2306.1
62.5°	657.6	657.6	650.3	655.8	905.8	2309.7	3552.4	2931.1	2570.6	2340.5	2653.9
65°	538.0	530.8	541.6	536.2	545.3	1519.9	3845.9	4144.8	3548.8	2787.9	3146.6
67.5°	438.4	431.1	438.4	498.2	476.4	668.5	3434.7	5342.2	4931.0	3349.5	3675.6
70°	373.2	364.1	364.1	443.8	472.8	478.2	2121.3	5724.4	5816.8	4143.0	4193.7
72.5°	279.0	280.8	284.4	382.2	472.8	460.1	885.8	5025.2	5378.4	4398.4	4018.0
75°	184.8	186.6	197.5	280.8	489.1	467.4	487.3	3380.3	3838.6	3371.3	2791.6
77.5°	123.2	123.2	134.1	183.0	427.5	481.9	454.7	1777.1	2106.8	1592.3	913.0
80°	83.3	83.3	87.0	123.2	297.1	509.0	449.3	690.2	650.3	336.9	184.8
82.5°	48.9	48.9	58.0	83.3	175.7	500.0	445.6	362.3	269.9	125.0	97.8
85°	23.5	23.5	34.4	50.7	97.8	375.0	423.9	306.1	202.9	83.3	58.0
87.5°	7.2	7.2	14.5	25.4	45.3	193.8	288.0	210.1	101.4	32.6	19.9
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°	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6	887.6
2.5°	882.2	887.6	893.1	905.8	905.8	905.8	898.5	900.3	896.7	900.3	902.1
5°	876.8	887.6	904.0	894.9	889.5	875.0	855.0	836.9	827.9	827.9	818.8
7.5°	871.3	885.8	893.1	876.8	846.0	807.9	779.0	746.4	728.2	721.0	721.0
10°	869.5	893.1	889.5	844.2	791.6	733.7	675.7	625.0	583.3	568.8	563.4
12.5°	876.8	902.1	871.3	798.9	726.4	639.5	556.1	474.6	420.3	396.7	394.9
15°	894.9	911.2	851.4	757.2	646.7	532.6	427.5	329.7	288.0	273.5	271.7
17.5°	905.8	914.8	827.9	702.9	559.8	409.4	288.0	237.3	230.1	230.1	231.9
20°	916.6	911.2	789.8	641.3	458.3	279.0	197.5	184.8	190.2	201.1	202.9
22.5°	927.5	889.5	748.2	558.0	324.3	179.3	155.8	154.0	164.8	181.2	183.0
25°	922.1	865.9	692.0	463.8	201.1	143.1	134.1	137.7	144.9	155.8	157.6
27.5°	911.2	844.2	646.7	360.5	141.3	126.8	125.0	126.8	130.4	135.9	139.5
30°	900.3	824.2	592.4	242.7	126.8	121.4	119.6	119.6	119.6	123.2	125.0
32.5°	887.6	795.3	534.4	159.4	119.6	115.9	114.1	112.3	112.3	112.3	112.3
35°	875.0	773.5	476.4	128.6	114.1	110.5	108.7	105.1	105.1	103.3	105.1
37.5°	864.1	750.0	400.3	119.6	108.7	106.9	103.3	99.6	97.8	99.6	97.8
40°	867.7	742.7	322.5	114.1	106.9	103.3	97.8	96.0	94.2	96.0	96.0
42.5°	882.2	731.9	248.2	110.5	103.3	97.8	94.2	90.6	90.6	92.4	92.4
45°	914.8	735.5	188.4	106.9	99.6	96.0	90.6	88.8	88.8	88.8	88.8
47.5°	980.0	764.5	157.6	105.1	97.8	92.4	88.8	85.1	85.1	85.1	83.3
50°	1077.9	811.6	146.7	105.1	96.0	92.4	87.0	81.5	79.7	79.7	79.7
52.5°	1215.5	898.5	146.7	103.3	94.2	88.8	83.3	77.9	76.1	74.3	74.3
55°	1418.4	1012.6	150.4	103.3	90.6	87.0	79.7	74.3	70.6	70.6	70.6
57.5°	1699.2	1217.3	148.5	101.4	88.8	81.5	74.3	70.6	67.0	65.2	65.2
60°	2039.8	1485.5	146.7	99.6	87.0	76.1	68.8	65.2	61.6	61.6	61.6
62.5°	2436.5	1874.9	155.8	103.3	85.1	70.6	65.2	61.6	58.0	58.0	58.0
65°	2958.2	2353.2	233.7	110.5	83.3	67.0	59.8	56.2	54.3	54.3	54.3
67.5°	3547.0	2972.7	275.4	135.9	85.1	61.6	54.3	52.5	50.7	48.9	50.7
70°	3903.8	3045.2	275.4	179.3	97.8	56.2	48.9	47.1	47.1	45.3	45.3
72.5°	3478.1	2514.4	260.9	188.4	106.9	52.5	45.3	43.5	41.7	39.9	39.9
75°	2260.8	1420.2	224.6	154.0	90.6	47.1	39.9	38.0	36.2	36.2	36.2
77.5°	682.9	418.5	148.5	108.7	59.8	39.9	34.4	32.6	30.8	30.8	29.0
80°	170.3	137.7	70.6	59.8	38.0	30.8	27.2	25.4	23.5	23.5	23.5
82.5°	92.4	85.1	43.5	34.4	27.2	21.7	21.7	19.9	18.1	16.3	16.3
85°	56.2	50.7	30.8	21.7	16.3	12.7	12.7	12.7	10.9	10.9	9.1
87.5°	19.9	21.7	14.5	7.2	5.4	5.4	3.6	3.6	3.6	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)