

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: P534592

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

Issue Date: 6/10/2021

Test Information

Test Method: LM-79-08
Report Number: P534592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-067-8)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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



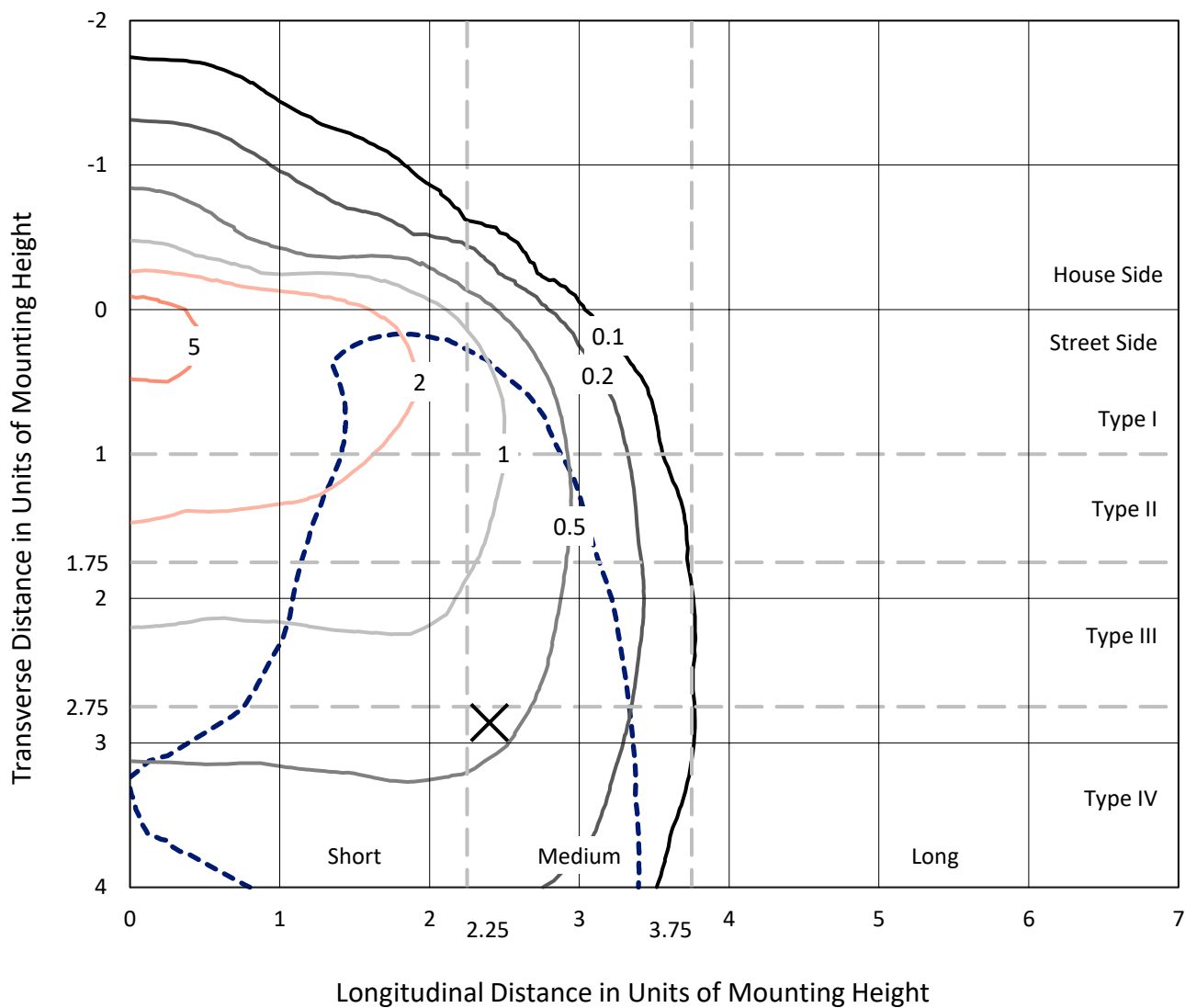
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

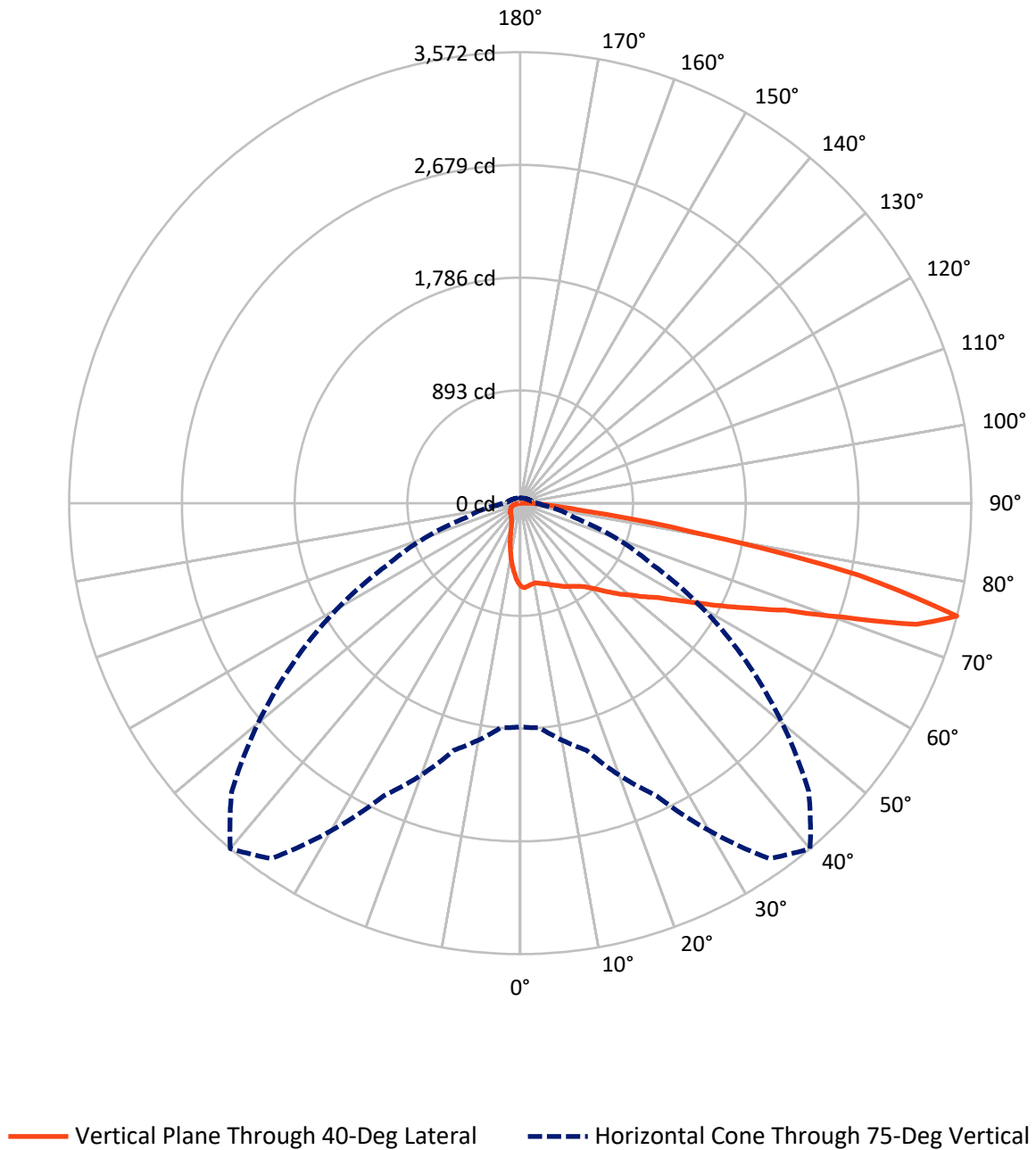
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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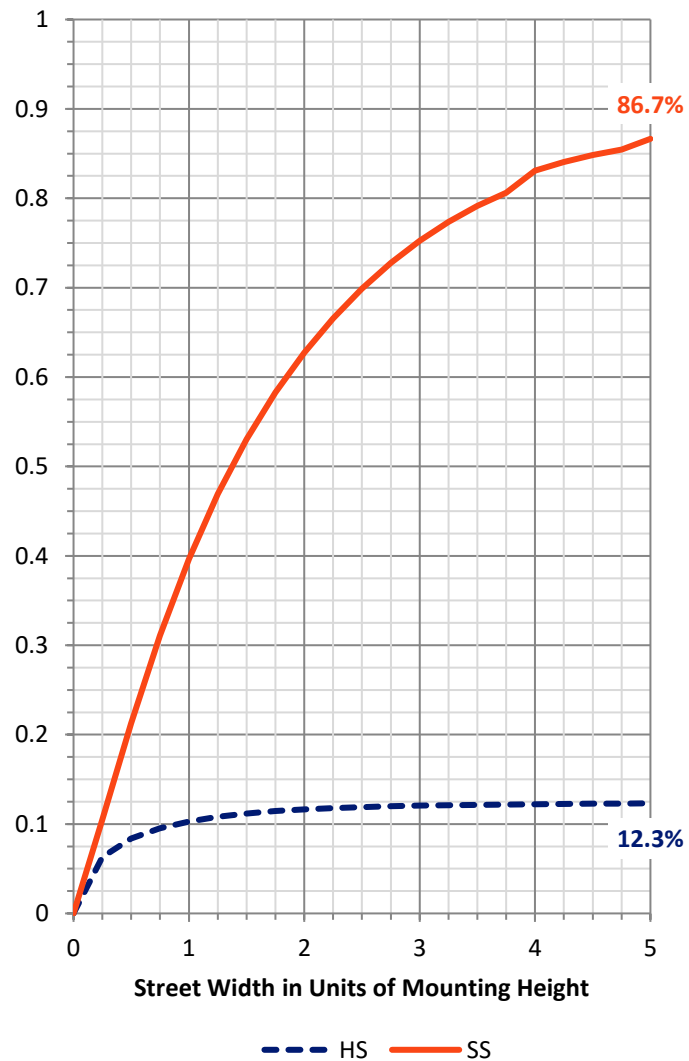
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	498.3	0.0	498.3
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	3506.7	0.0	3506.7
	% Fixture	87.6	0.0	87.6
Total	Lumens	4005.0	0.0	4005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	1.4
10°-20°	142.4	3.6
20°-30°	219.9	5.5
30°-40°	319.9	8.0
40°-50°	478.8	12.0
50°-60°	715.4	17.9
60°-70°	1007.9	25.2
70°-80°	927.3	23.2
80°-90°	136.8	3.4
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°	4005.0	100.0
0°-180°	4005.0	100.0

Coefficient of Utilization



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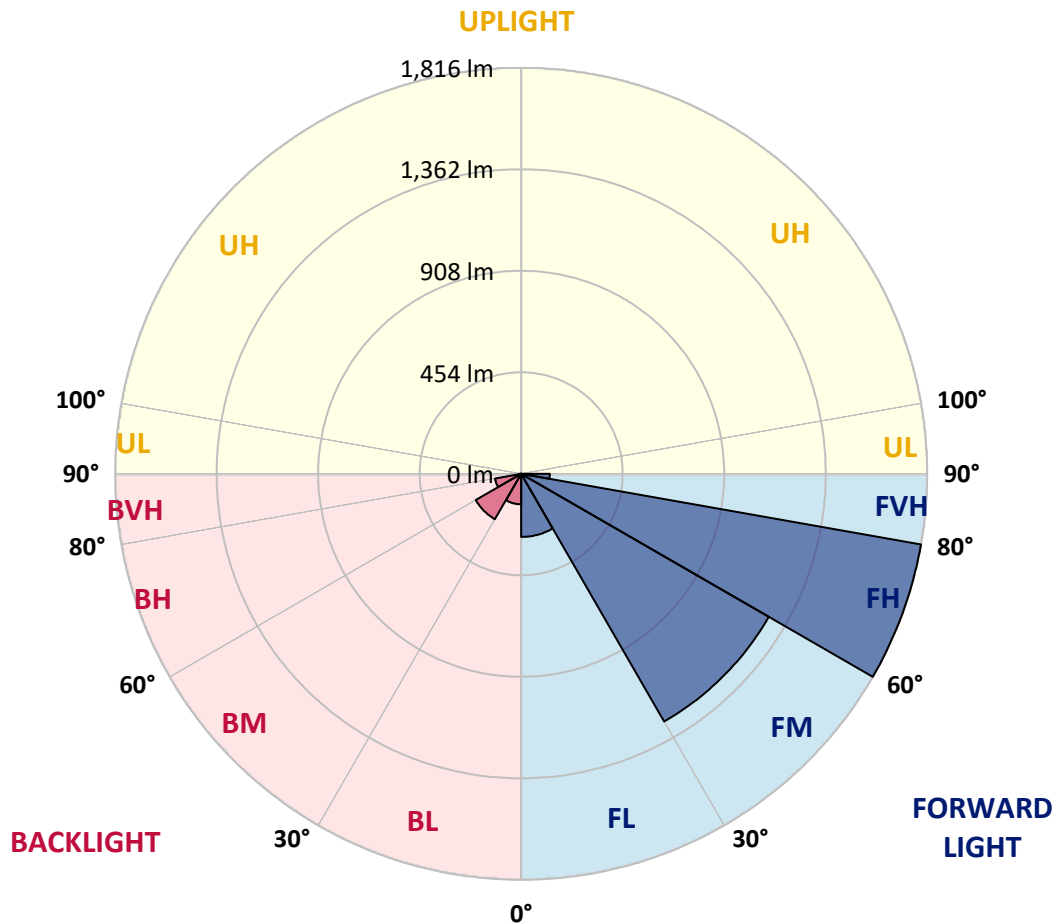
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.5	7.1			
FM	(30°-60°)	1279.6	31.9			
FH	(60°-80°)	1816.4	45.4			G2/5000
FVH	(80°-90°)	128.2	3.2			G2/225
BL	(0°-30°)	136.3	3.4	B1/500		
BM	(30°-60°)	234.5	5.9	B1/1000		
BH	(60°-80°)	118.9	3.0	B1/500		G1/500
BVH	(80°-90°)	8.5	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	670.3	672.1	670.3	670.3	666.7	670.3	664.8	663.0	659.4	659.4	652.2
5°	661.2	664.8	661.2	661.2	659.4	659.4	654.0	652.2	646.7	646.7	637.7
7.5°	646.7	644.9	646.7	646.7	646.7	648.5	644.9	639.5	637.7	630.4	626.8
10°	632.2	635.9	634.0	639.5	641.3	641.3	641.3	637.7	634.0	625.0	619.6
12.5°	617.7	619.6	630.4	637.7	646.7	650.3	648.5	644.9	639.5	628.6	614.1
15°	621.4	615.9	626.8	643.1	655.8	661.2	654.0	654.0	641.3	628.6	614.1
17.5°	619.6	619.6	634.0	654.0	670.3	672.1	672.1	663.0	650.3	637.7	614.1
20°	628.6	628.6	646.7	668.5	686.6	690.2	688.4	670.3	655.8	641.3	626.8
22.5°	646.7	648.5	666.7	692.0	701.1	706.5	701.1	683.0	666.7	655.8	632.2
25°	675.7	673.9	688.4	713.8	728.2	724.6	724.6	695.6	677.5	670.3	650.3
27.5°	701.1	702.9	711.9	737.3	744.5	748.2	740.9	708.3	692.0	693.8	670.3
30°	735.5	739.1	744.5	757.2	762.7	764.5	764.5	731.9	713.8	724.6	692.0
32.5°	779.0	777.2	779.0	788.0	779.0	784.4	782.6	751.8	742.7	766.3	726.4
35°	826.1	826.1	820.6	815.2	800.7	808.0	808.0	779.0	782.6	820.6	762.7
37.5°	875.0	867.7	858.7	842.4	831.5	840.6	846.0	820.6	836.9	893.1	829.7
40°	920.3	905.8	887.7	878.6	871.4	885.9	893.1	878.6	902.2	987.3	918.5
42.5°	947.4	945.6	923.9	913.0	920.3	943.8	947.4	940.2	987.3	1096.0	1018.1
45°	981.9	972.8	952.9	947.4	978.2	1009.0	1019.9	1010.8	1083.3	1231.9	1123.2
47.5°	1003.6	994.5	978.2	990.9	1036.2	1077.9	1101.4	1101.4	1195.6	1375.0	1237.3
50°	1025.3	1012.7	1003.6	1045.3	1092.4	1144.9	1177.5	1199.3	1317.0	1519.9	1369.5
52.5°	1063.4	1041.6	1032.6	1105.0	1163.0	1231.9	1286.2	1307.9	1458.3	1679.3	1496.3
55°	1114.1	1099.6	1072.4	1170.3	1246.4	1318.8	1387.7	1447.4	1596.0	1824.2	1601.4
57.5°	1168.5	1152.2	1130.4	1251.8	1364.1	1449.2	1518.1	1605.0	1757.2	1983.7	1697.4
60°	1239.1	1222.8	1206.5	1347.8	1505.4	1599.6	1686.6	1782.6	1929.3	2112.3	1777.1
62.5°	1307.9	1293.5	1291.6	1452.9	1668.4	1791.6	1862.3	1969.2	2088.7	2217.3	1813.4
65°	1393.1	1385.8	1382.2	1581.5	1878.6	2003.6	2079.7	2192.0	2273.5	2306.1	1764.5
67.5°	1472.8	1481.9	1512.6	1739.1	2106.8	2260.8	2376.8	2496.3	2469.2	2313.4	1510.8
70°	1623.2	1626.8	1699.2	1971.0	2467.3	2699.2	2833.3	2817.0	2494.5	2005.4	1029.0
72.5°	1782.6	1809.7	1943.8	2322.4	3021.7	3282.5	3322.4	2860.4	2106.8	1271.7	442.0
75°	1771.7	1786.2	2025.3	2557.9	3436.5	3572.4	3231.8	2182.9	1161.2	443.8	183.0
77.5°	1413.0	1452.9	1711.9	2260.8	2938.3	2740.9	2097.8	1085.1	371.4	163.0	110.5
80°	663.0	739.1	896.7	1179.3	1583.3	1384.0	896.7	442.0	186.6	105.1	77.9
82.5°	309.8	322.5	358.7	391.3	529.0	514.5	371.4	347.8	143.1	63.4	38.0
85°	212.0	230.1	255.4	224.6	242.7	240.9	257.2	344.2	99.6	36.2	23.6
87.5°	144.9	154.0	172.1	132.2	146.7	135.9	161.2	297.1	32.6	14.5	7.2
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°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	648.5	644.9	634.0	632.2	630.4	619.6	617.7	612.3	608.7	606.9	608.7
5°	634.0	628.6	615.9	605.1	585.1	567.0	554.3	541.7	532.6	534.4	534.4
7.5°	621.4	615.9	596.0	576.1	541.7	516.3	485.5	461.9	447.5	436.6	440.2
10°	612.3	603.2	577.9	541.7	498.2	454.7	420.3	382.2	358.7	349.6	349.6
12.5°	608.7	597.8	556.1	507.2	451.1	398.5	347.8	308.0	279.0	271.7	268.1
15°	605.1	585.1	532.6	469.2	400.4	340.6	286.2	248.2	215.6	202.9	204.7
17.5°	603.2	579.7	510.9	434.8	355.1	284.4	233.7	193.8	175.7	166.7	166.7
20°	605.1	574.3	492.7	393.1	304.3	235.5	188.4	164.9	154.0	148.5	150.4
22.5°	610.5	567.0	461.9	353.3	262.7	197.5	164.9	152.2	144.9	141.3	141.3
25°	617.7	567.0	442.0	309.8	224.6	173.9	150.4	143.1	137.7	137.7	134.1
27.5°	632.2	568.8	414.8	273.5	193.8	155.8	143.1	135.9	132.2	132.2	132.2
30°	639.5	567.0	389.5	240.9	170.3	144.9	134.1	132.2	130.4	126.8	126.8
32.5°	657.6	565.2	360.5	212.0	154.0	135.9	128.6	126.8	125.0	123.2	123.2
35°	688.4	572.5	324.3	188.4	141.3	128.6	123.2	121.4	119.6	119.6	117.8
37.5°	726.4	583.3	298.9	168.5	132.2	121.4	117.8	115.9	115.9	115.9	115.9
40°	786.2	606.9	277.2	155.8	125.0	115.9	112.3	112.3	112.3	110.5	110.5
42.5°	853.2	635.9	259.1	146.7	121.4	112.3	108.7	106.9	106.9	106.9	106.9
45°	933.0	666.7	242.7	139.5	119.6	110.5	106.9	103.3	103.3	103.3	101.4
47.5°	1018.1	702.9	230.1	135.9	115.9	108.7	103.3	101.4	99.6	97.8	97.8
50°	1110.5	744.5	224.6	134.1	114.1	105.1	99.6	97.8	96.0	92.4	92.4
52.5°	1197.4	786.2	228.3	132.2	112.3	101.4	96.0	96.0	92.4	88.8	90.6
55°	1268.1	826.1	231.9	132.2	110.5	96.0	92.4	92.4	88.8	85.1	85.1
57.5°	1331.5	855.1	233.7	134.1	110.5	92.4	87.0	88.8	85.1	83.3	83.3
60°	1378.6	865.9	233.7	137.7	110.5	88.8	81.5	85.1	83.3	79.7	81.5
62.5°	1375.0	822.4	217.4	139.5	110.5	87.0	77.9	81.5	85.1	81.5	81.5
65°	1251.8	655.8	188.4	130.4	108.7	85.1	72.5	77.9	83.3	81.5	81.5
67.5°	947.4	434.8	152.2	117.8	99.6	81.5	68.8	68.8	74.3	72.5	74.3
70°	554.3	235.5	125.0	101.4	87.0	74.3	63.4	59.8	59.8	59.8	59.8
72.5°	228.3	137.7	101.4	85.1	74.3	63.4	56.2	50.7	48.9	48.9	48.9
75°	126.8	101.4	83.3	68.8	59.8	52.5	48.9	43.5	41.7	41.7	41.7
77.5°	92.4	83.3	67.0	52.5	45.3	41.7	38.0	36.2	34.4	34.4	34.4
80°	70.7	65.2	50.7	39.9	34.4	29.0	29.0	27.2	27.2	27.2	27.2
82.5°	41.7	48.9	36.2	27.2	25.4	21.7	19.9	19.9	19.9	18.1	18.1
85°	27.2	36.2	21.7	16.3	12.7	10.9	12.7	10.9	10.9	9.1	9.1
87.5°	5.4	10.9	5.4	1.8	1.8	1.8	1.8	1.8	1.8	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)