

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: STREETWORKS

Report Number: P573348

Luminaire Tested: **ARCH-S-PA2-60-827-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4778 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.1
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

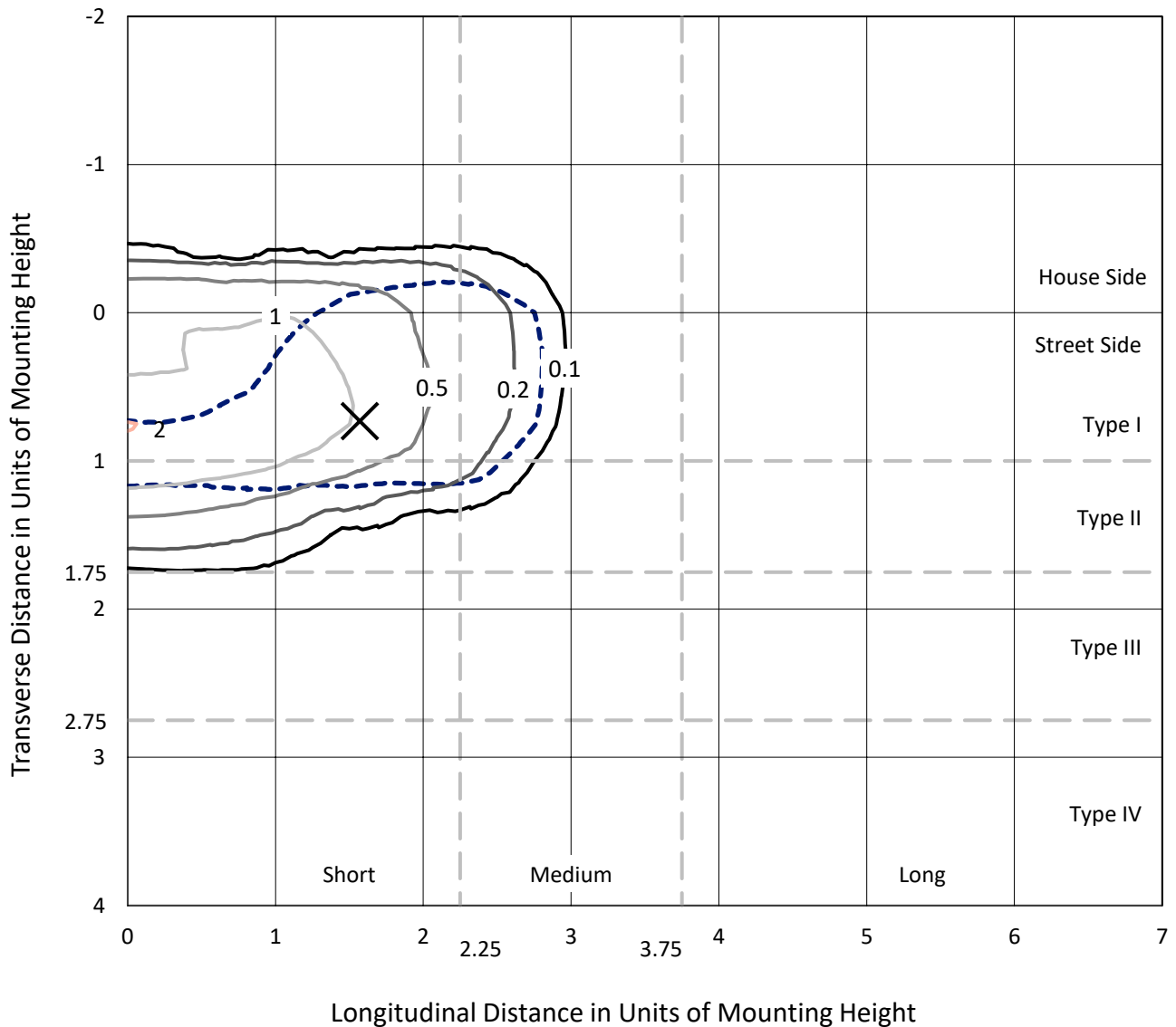




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Iso-Footcandle Lines of Horizontal Illumination

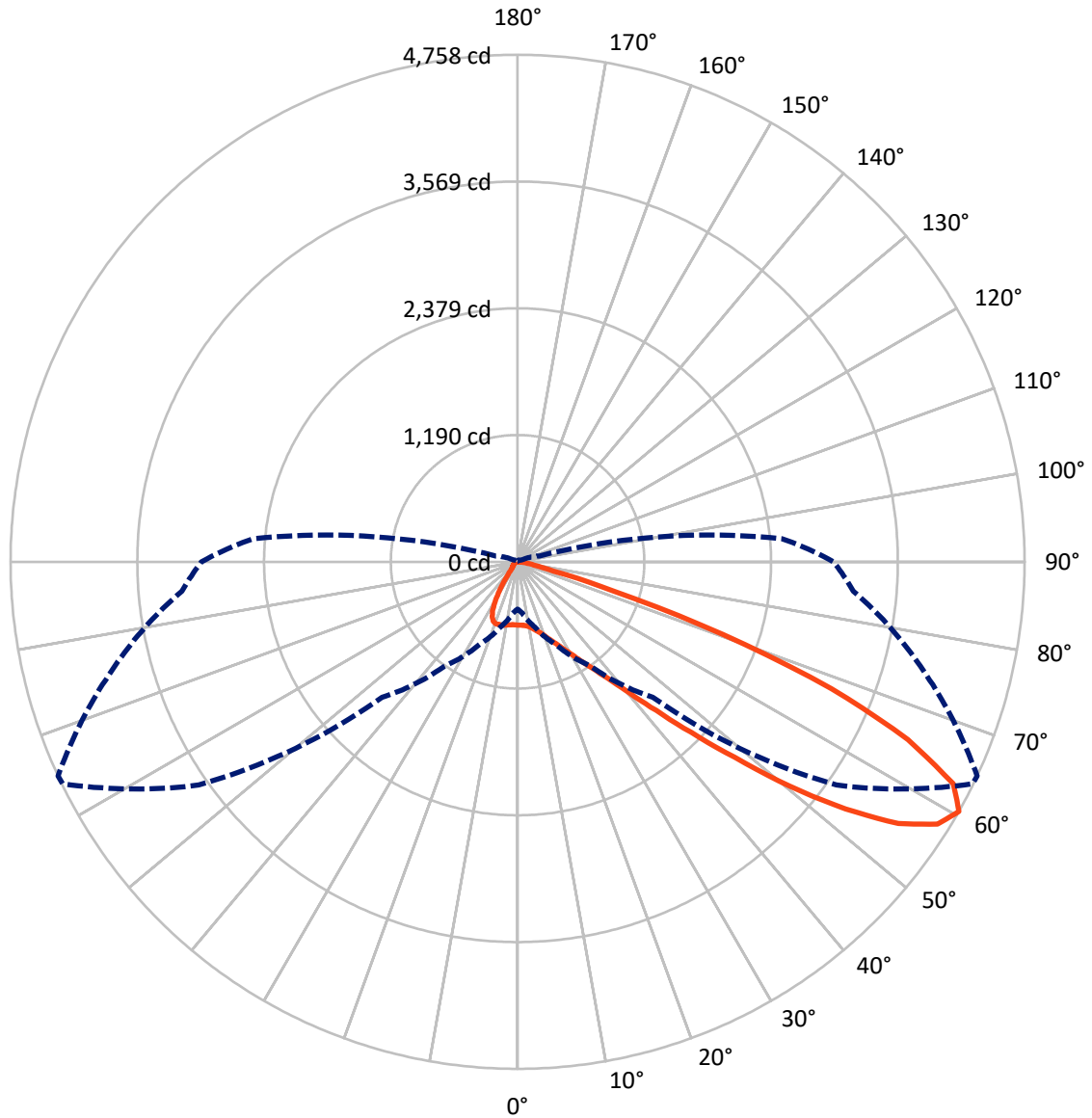
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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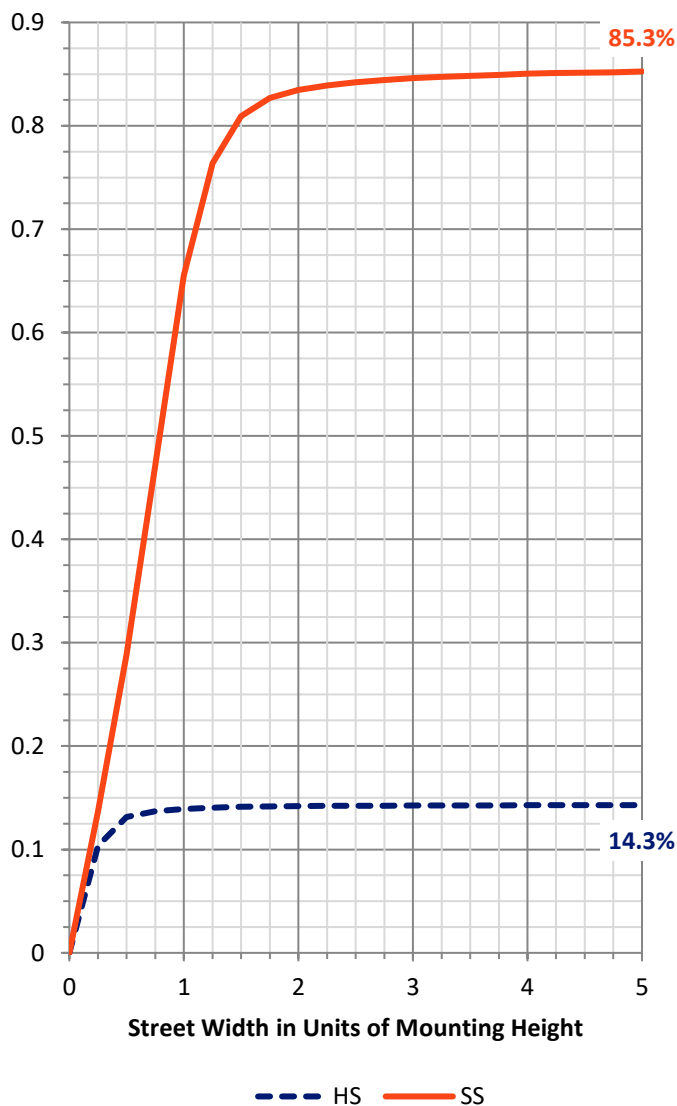
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.7	0.0	691.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	4086.3	0.0	4086.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	4778.0	0.0	4778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	159.6	3.3
20°-30°	271.1	5.7
30°-40°	559.4	11.7
40°-50°	1125.1	23.5
50°-60°	1376.7	28.8
60°-70°	974.0	20.4
70°-80°	234.7	4.9
80°-90°	21.2	0.4
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°	4778.0	100.0
0°-180°	4778.0	100.0

Coefficient of Utilization

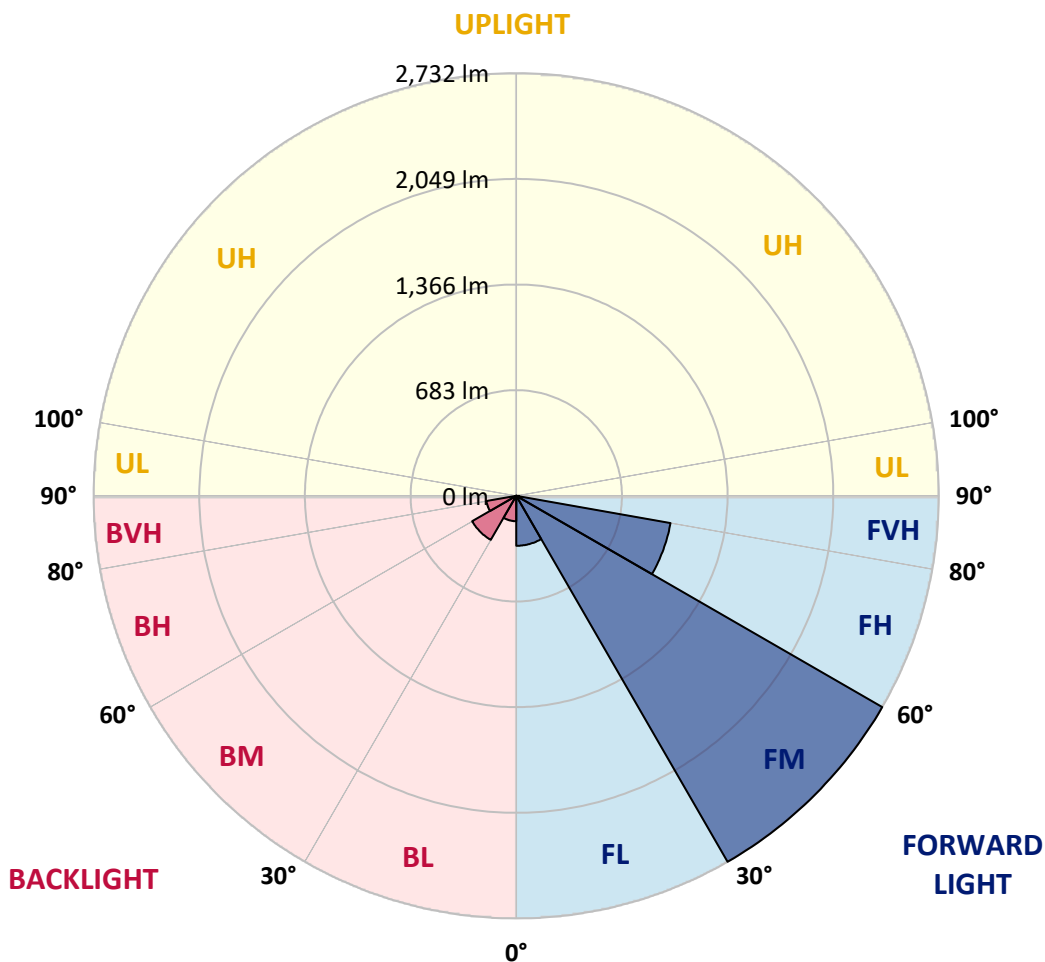


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.0	6.8			
FM (30°-60°)	2732.3	57.2			
FH (60°-80°)	1012.6	21.2			G1/1800
FVH (80°-90°)	18.4	0.4			G1/100
BL (0°-30°)	164.0	3.4	B1/500		
BM (30°-60°)	328.9	6.9	B1/1000		
BH (60°-80°)	196.1	4.1	B1/500		G1/500
BVH (80°-90°)	2.8	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	597.1	595.2	595.2	595.2	597.1	597.1	599.0	595.2	595.2	595.2	595.2
5°	593.3	591.5	591.5	593.3	595.2	595.2	599.0	599.0	599.0	600.9	600.9
7.5°	600.9	597.1	597.1	599.0	600.9	600.9	604.6	606.5	606.5	610.3	612.2
10°	610.3	608.4	608.4	612.2	615.9	615.9	621.6	621.6	621.6	625.4	627.2
12.5°	623.5	621.6	621.6	627.2	632.9	636.7	640.4	642.3	644.2	644.2	644.2
15°	642.3	640.4	640.4	646.1	653.6	663.0	668.7	668.7	672.4	670.6	663.0
17.5°	668.7	666.8	668.7	672.4	681.9	691.3	702.6	704.5	702.6	698.8	687.5
20°	712.0	706.4	710.1	719.5	719.5	725.2	740.3	745.9	747.8	736.5	715.8
22.5°	757.2	757.2	761.0	772.3	764.7	772.3	785.5	794.9	798.6	789.2	755.3
25°	842.0	845.7	840.1	836.3	817.5	821.3	838.2	857.0	857.0	849.5	800.5
27.5°	1028.4	1024.7	985.1	930.5	881.5	885.3	902.2	926.7	928.6	911.7	845.7
30°	1295.9	1299.7	1222.5	1098.1	990.8	962.5	981.4	1009.6	1013.4	985.1	904.1
32.5°	1714.1	1682.1	1538.9	1373.1	1171.6	1069.9	1077.4	1107.6	1118.9	1094.4	996.4
35°	2254.7	2179.3	1964.6	1759.3	1467.3	1262.0	1203.6	1235.6	1241.3	1228.1	1111.3
37.5°	2576.8	2516.5	2377.1	2190.6	1847.8	1518.2	1369.4	1401.4	1395.8	1369.4	1226.2
40°	2776.4	2742.5	2667.2	2580.5	2362.0	1921.3	1642.5	1616.1	1618.0	1580.3	1412.7
42.5°	2889.5	2859.3	2831.1	2853.7	2789.6	2652.1	2038.1	1917.5	1906.2	1834.6	1629.3
45°	2895.1	2849.9	2883.8	3015.7	3117.4	3300.1	2554.2	2275.4	2281.0	2162.4	1898.7
47.5°	2678.5	2642.7	2740.6	2998.7	3335.9	3723.9	3155.0	2765.1	2738.8	2505.2	2171.8
50°	2250.9	2249.0	2379.0	2744.4	3335.9	3942.4	3799.2	3339.6	3311.4	2863.1	2420.4
52.5°	1781.9	1817.7	1906.2	2252.8	3028.8	3921.7	4273.9	3933.0	3853.9	3181.4	2627.6
55°	1386.3	1373.1	1480.5	1719.7	2401.6	3563.8	4428.4	4400.1	4334.2	3464.0	2810.3
57.5°	851.4	900.4	1045.4	1258.2	1748.0	2802.8	4206.1	4684.5	4645.0	3727.7	3000.6
60°	442.6	480.3	636.7	858.9	1194.2	1797.0	3650.4	4750.5	4758.0	3940.5	3162.6
62.5°	278.8	276.9	348.5	602.8	768.5	1009.6	2834.8	4516.9	4588.5	4104.4	3317.0
65°	209.1	211.0	239.2	399.3	521.8	527.4	1682.1	3906.6	4025.3	4147.7	3369.8
67.5°	194.0	195.9	209.1	261.8	391.8	352.2	740.3	3011.9	3177.6	3748.4	3166.3
70°	173.3	175.2	195.9	216.6	295.7	258.1	333.4	1813.9	2043.7	2719.9	2533.4
72.5°	135.6	139.4	163.9	205.3	220.4	195.9	231.7	802.4	936.2	1495.6	1450.4
75°	99.8	101.7	124.3	158.2	194.0	139.4	178.9	318.3	348.5	561.3	478.4
77.5°	69.7	69.7	86.6	118.7	162.0	97.9	128.1	171.4	175.2	209.1	137.5
80°	43.3	45.2	54.6	81.0	99.8	94.2	79.1	114.9	114.9	109.2	56.5
82.5°	24.5	26.4	37.7	54.6	67.8	64.0	50.9	65.9	67.8	69.7	32.0
85°	11.3	13.2	22.6	33.9	39.6	30.1	30.1	33.9	33.9	45.2	18.8
87.5°	1.9	1.9	11.3	15.1	13.2	15.1	15.1	18.8	18.8	22.6	9.4
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°	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2	595.2
2.5°	593.3	593.3	593.3	591.5	591.5	589.6	585.8	585.8	585.8	585.8	587.7
5°	600.9	599.0	597.1	591.5	587.7	580.2	572.6	570.7	565.1	565.1	567.0
7.5°	610.3	610.3	604.6	595.2	585.8	572.6	559.4	550.0	540.6	538.7	536.8
10°	627.2	623.5	617.8	600.9	585.8	565.1	544.4	519.9	501.0	491.6	487.9
12.5°	640.4	638.5	627.2	608.4	583.9	551.9	504.8	448.3	403.1	378.6	378.6
15°	659.3	655.5	638.5	612.2	578.3	502.9	406.9	320.2	271.2	244.9	241.1
17.5°	678.1	670.6	649.8	614.1	553.8	414.4	284.4	205.3	171.4	158.2	154.5
20°	700.7	687.5	657.4	615.9	493.5	301.4	184.6	137.5	124.3	118.7	120.6
22.5°	730.8	708.2	664.9	604.6	403.1	195.9	130.0	111.1	103.6	97.9	97.9
25°	768.5	736.5	678.1	572.6	292.0	131.9	103.6	92.3	84.8	81.0	79.1
27.5°	802.4	762.9	691.3	516.1	186.5	103.6	86.6	77.2	69.7	67.8	65.9
30°	847.6	793.0	704.5	425.7	122.4	84.8	73.5	64.0	58.4	56.5	56.5
32.5°	924.9	851.4	729.0	324.0	92.3	73.5	62.2	54.6	50.9	49.0	49.0
35°	1015.3	923.0	749.7	226.0	79.1	62.2	52.7	47.1	45.2	43.3	43.3
37.5°	1109.4	1007.7	753.4	143.2	69.7	54.6	47.1	43.3	39.6	39.6	39.6
40°	1279.0	1156.5	736.5	96.1	60.3	49.0	41.4	39.6	35.8	35.8	35.8
42.5°	1476.7	1337.4	693.2	77.2	54.6	43.3	39.6	35.8	32.0	32.0	30.1
45°	1732.9	1542.7	619.7	67.8	49.0	39.6	35.8	32.0	30.1	28.3	28.3
47.5°	1974.0	1776.2	550.0	60.3	45.2	37.7	32.0	28.3	26.4	26.4	26.4
50°	2203.8	1955.2	469.0	56.5	41.4	35.8	30.1	26.4	24.5	22.6	22.6
52.5°	2369.6	2096.5	393.7	50.9	37.7	32.0	28.3	24.5	20.7	18.8	18.8
55°	2554.2	2239.6	325.9	45.2	35.8	30.1	24.5	20.7	17.0	15.1	15.1
57.5°	2761.4	2379.0	263.7	41.4	33.9	26.4	20.7	17.0	13.2	11.3	11.3
60°	2966.7	2490.1	211.0	37.7	30.1	24.5	18.8	13.2	9.4	7.5	7.5
62.5°	3172.0	2565.5	162.0	33.9	28.3	20.7	15.1	9.4	5.7	3.8	3.8
65°	3256.8	2544.8	120.6	30.1	24.5	17.0	13.2	9.4	5.7	3.8	3.8
67.5°	3021.3	2288.6	84.8	30.1	22.6	17.0	11.3	7.5	3.8	1.9	1.9
70°	2358.3	1766.8	62.2	30.1	22.6	17.0	11.3	7.5	3.8	1.9	1.9
72.5°	1337.4	983.2	47.1	26.4	20.7	15.1	11.3	7.5	3.8	1.9	1.9
75°	476.6	316.4	35.8	24.5	18.8	13.2	11.3	7.5	3.8	1.9	1.9
77.5°	114.9	81.0	28.3	20.7	17.0	13.2	9.4	7.5	5.7	1.9	1.9
80°	47.1	33.9	22.6	17.0	13.2	11.3	9.4	7.5	3.8	1.9	1.9
82.5°	20.7	17.0	9.4	9.4	7.5	7.5	7.5	7.5	3.8	1.9	1.9
85°	9.4	7.5	3.8	3.8	1.9	1.9	1.9	3.8	3.8	1.9	1.9
87.5°	5.7	3.8	3.8	3.8	1.9	1.9	1.9	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)