

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: P397952

Luminaire Tested: **ARCH-S-PA1-60-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

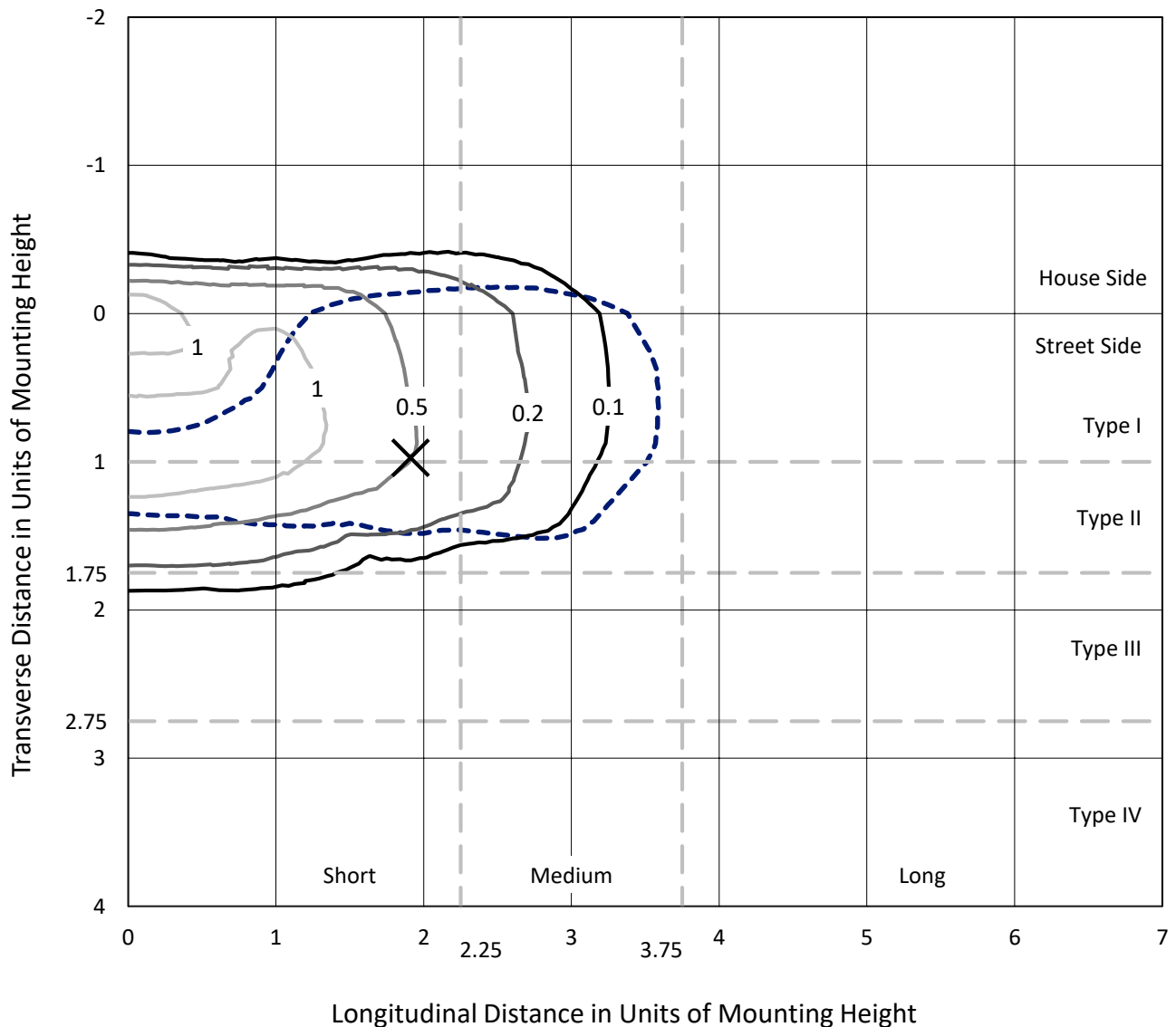
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

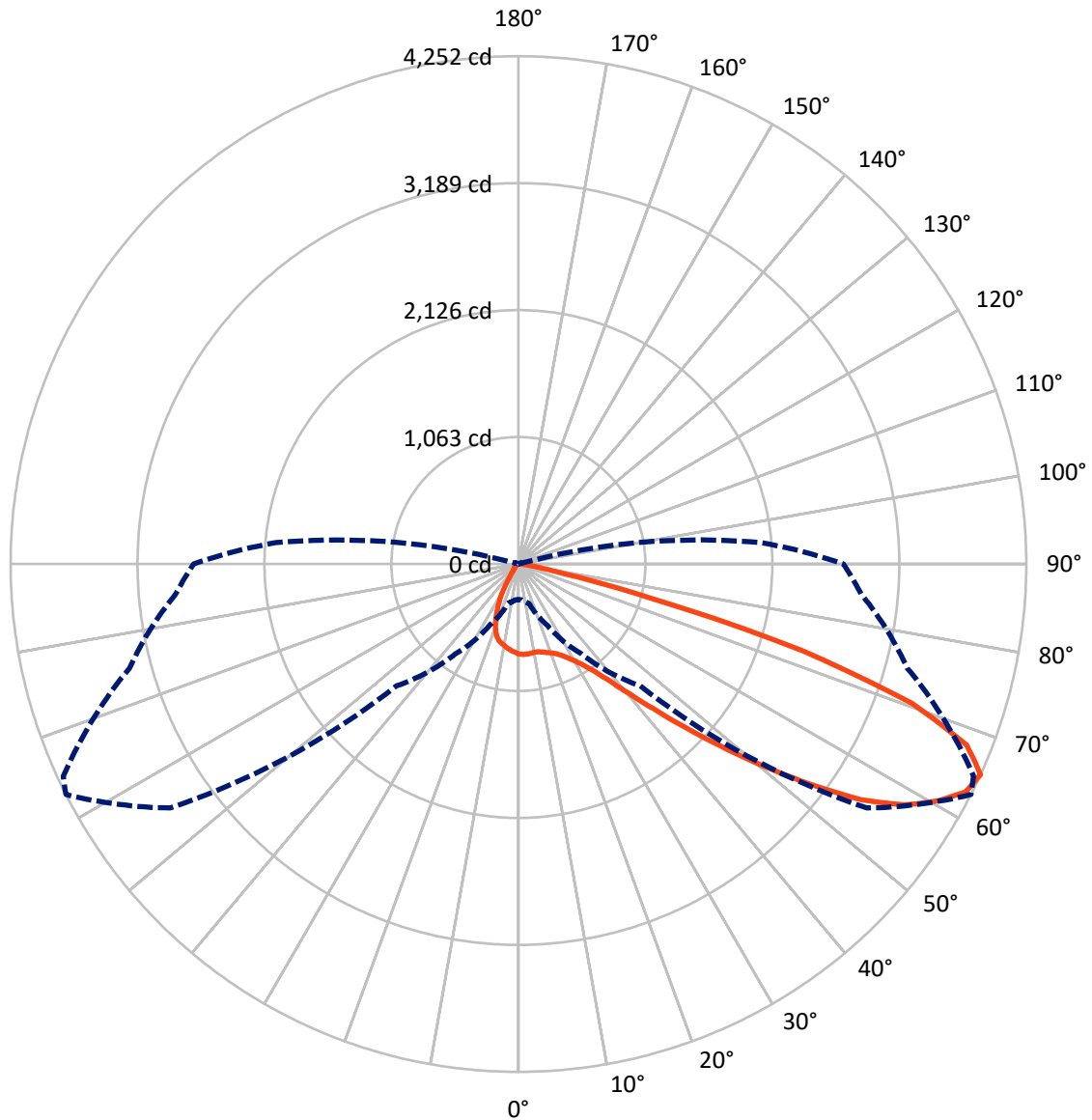


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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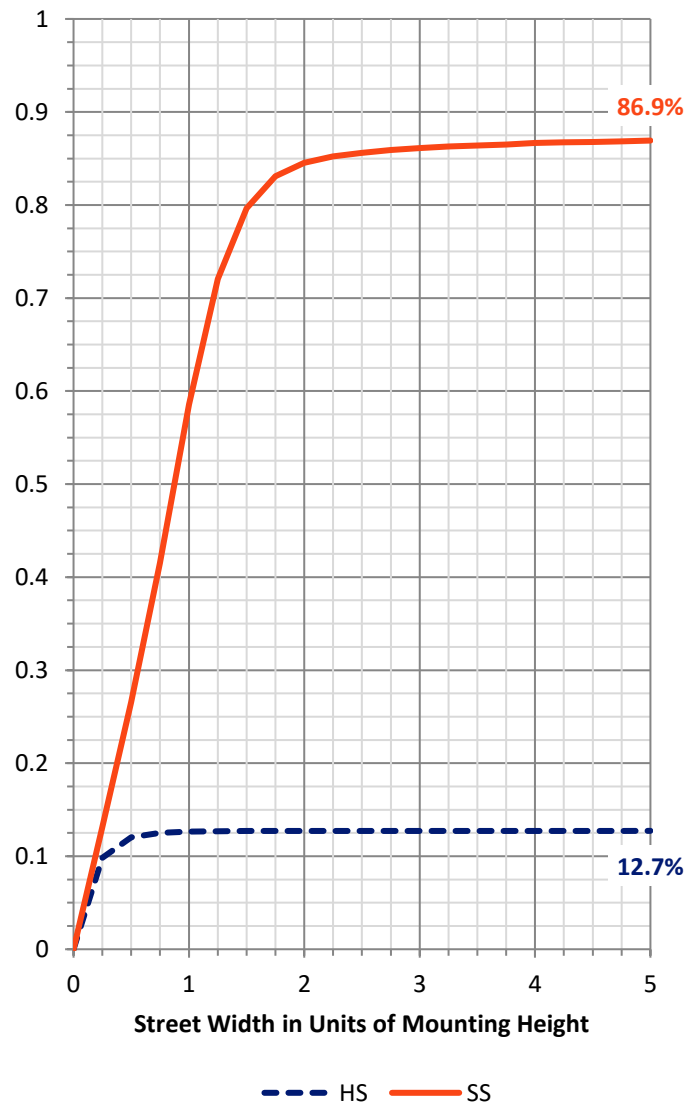
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.4	0.0	630.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4267.6	0.0	4267.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	4898.0	0.0	4898.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.4
10°-20°	169.8	3.5
20°-30°	251.7	5.1
30°-40°	467.4	9.5
40°-50°	990.2	20.2
50°-60°	1369.2	28.0
60°-70°	1096.1	22.4
70°-80°	455.4	9.3
80°-90°	29.2	0.6
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°	4898.0	100.0
0°-180°	4898.0	100.0



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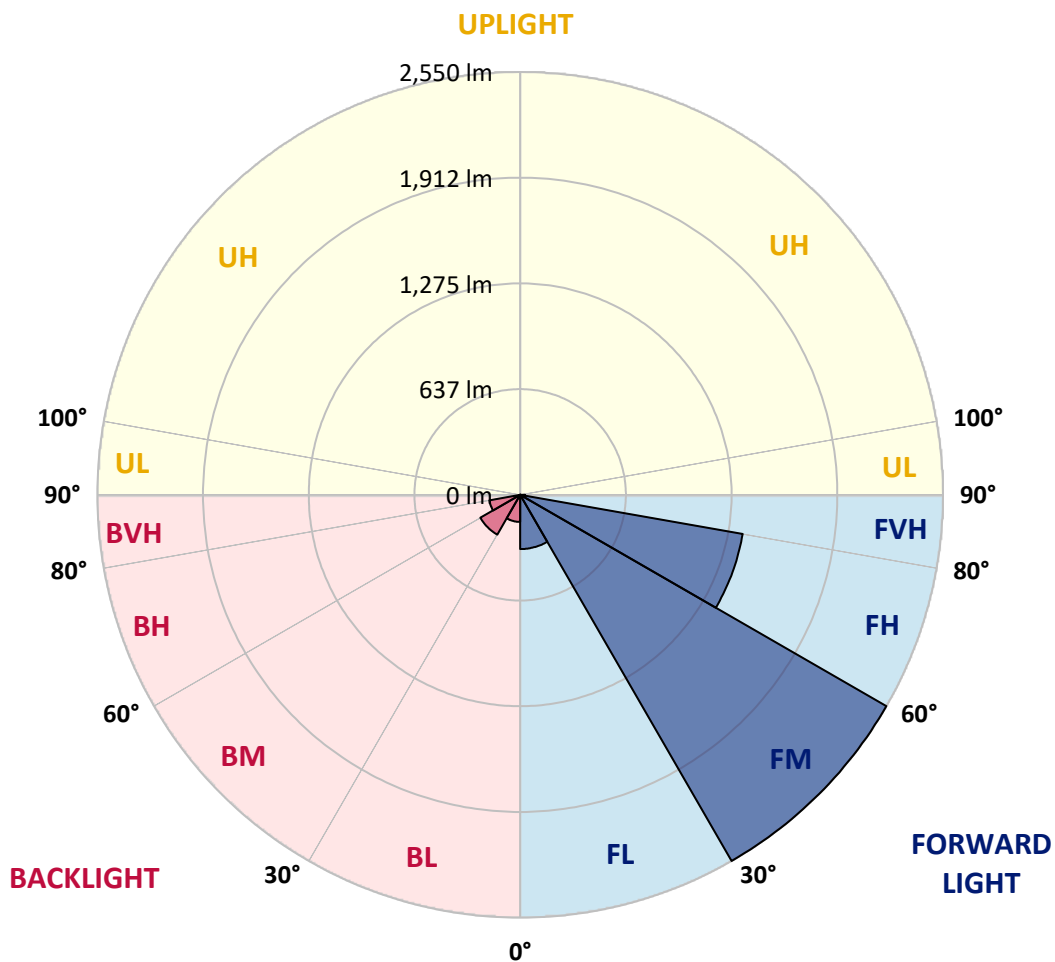
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.1	6.7			
FM	(30°-60°)	2549.9	52.1			
FH	(60°-80°)	1362.7	27.8			G1/1800
FVH	(80°-90°)	27.9	0.6			G1/100
BL	(0°-30°)	163.4	3.3	B1/500		
BM	(30°-60°)	276.9	5.7	B1/1000		
BH	(60°-80°)	188.7	3.9	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			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°	63°	65°	75°	85°
0°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	767.5	765.6	763.8	762.9	762.9	761.9	758.2	757.3	755.5	753.6	751.8
5°	760.1	757.3	756.4	757.3	758.2	760.1	758.2	758.2	756.4	754.5	750.8
7.5°	741.6	739.7	740.7	743.4	744.4	750.8	751.8	754.5	754.5	752.7	749.9
10°	719.4	718.5	718.5	723.1	727.7	737.0	743.4	750.8	751.8	751.8	747.1
12.5°	702.8	701.8	704.6	710.2	719.4	731.4	742.5	753.6	755.5	756.4	749.0
15°	692.6	692.6	696.3	707.4	720.3	737.0	749.9	764.7	766.6	765.6	755.5
17.5°	683.3	684.3	691.7	710.2	724.9	747.1	762.9	779.5	780.4	779.5	762.9
20°	679.6	681.5	692.6	716.6	733.3	758.2	778.6	795.2	796.2	792.5	770.3
22.5°	689.8	690.7	704.6	730.5	746.2	774.0	799.8	815.6	816.5	810.9	781.4
25°	724.9	724.9	737.0	759.2	773.0	800.8	828.5	847.0	847.0	840.5	806.3
27.5°	807.2	799.8	797.1	803.5	808.2	837.8	867.4	890.5	889.5	880.3	838.7
30°	966.3	947.8	918.2	884.9	868.3	888.6	916.4	945.9	945.0	930.2	878.4
32.5°	1233.5	1206.7	1136.4	1048.6	977.4	954.3	980.2	1012.5	1013.5	995.9	942.2
35°	1608.0	1565.5	1439.7	1317.7	1154.9	1067.1	1074.5	1109.6	1120.7	1111.5	1049.5
37.5°	1968.6	1929.8	1809.6	1640.4	1419.4	1240.0	1208.6	1239.1	1252.0	1252.0	1186.4
40°	2332.0	2286.7	2180.4	2010.3	1777.2	1510.0	1397.2	1422.2	1436.0	1438.8	1352.8
42.5°	2623.3	2593.7	2512.4	2380.1	2161.9	1983.4	1669.0	1655.2	1668.1	1658.0	1546.1
45°	2824.9	2801.8	2745.4	2695.4	2589.1	2499.4	2032.4	1939.1	1947.4	1912.2	1763.4
47.5°	2866.5	2840.6	2828.6	2897.9	2973.8	2996.0	2479.1	2276.6	2268.2	2190.6	1989.0
50°	2685.3	2688.0	2732.4	2930.3	3246.6	3446.3	2996.9	2657.5	2627.0	2454.1	2198.9
52.5°	2294.1	2338.5	2450.4	2771.3	3329.8	3773.6	3514.7	3061.6	3014.5	2710.2	2356.1
55°	1794.8	1852.1	2036.1	2405.1	3155.9	3919.7	3951.2	3481.4	3374.2	2902.6	2478.1
57.5°	1334.3	1351.9	1566.4	1903.0	2744.5	3776.4	4174.9	3805.1	3667.3	3056.1	2599.3
60°	831.3	842.4	1068.9	1449.0	2078.7	3246.6	4174.9	4027.9	3896.6	3193.8	2710.2
62.5°	516.9	520.6	605.7	993.1	1412.9	2407.9	4002.0	4200.8	4095.4	3292.8	2805.5
65°	297.7	301.4	341.2	561.3	919.1	1441.6	3560.0	4251.7	4204.5	3371.4	2879.5
67.5°	217.3	219.1	234.9	315.3	601.0	740.7	2674.2	4047.3	4106.5	3410.2	2877.6
70°	188.6	191.4	211.8	246.0	433.7	454.9	1361.1	3495.3	3660.8	3354.7	2791.6
72.5°	145.2	148.9	179.4	231.2	318.1	327.3	492.9	2487.4	2738.0	3008.0	2555.8
75°	99.9	103.6	134.1	190.5	262.6	245.0	270.9	1144.8	1444.4	2017.7	1945.5
77.5°	63.8	64.7	84.1	138.7	226.5	173.8	185.9	373.6	524.3	912.7	918.2
80°	42.5	43.5	51.8	89.7	155.3	160.9	114.7	172.9	189.6	266.3	184.9
82.5°	25.9	25.9	35.1	56.4	94.3	133.2	74.9	90.6	97.1	102.6	48.1
85°	10.2	10.2	21.3	37.0	59.2	62.0	47.2	52.7	55.5	60.1	22.2
87.5°	2.8	2.8	12.0	20.3	25.9	28.7	28.7	25.9	27.7	34.2	11.1
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°	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5	754.5
2.5°	750.8	748.1	744.4	740.7	737.0	734.2	731.4	731.4	729.6	726.8	724.9
5°	749.0	744.4	736.0	729.6	719.4	712.0	706.5	701.8	699.1	692.6	691.7
7.5°	746.2	740.7	728.6	715.7	699.1	686.1	673.2	663.9	654.7	647.3	645.4
10°	741.6	735.1	717.6	699.1	675.9	651.9	621.4	586.2	553.9	535.4	529.8
12.5°	741.6	733.3	710.2	685.2	651.9	592.7	515.0	437.4	377.3	350.5	343.1
15°	746.2	735.1	704.6	670.4	608.4	488.2	362.5	259.8	194.2	173.8	169.2
17.5°	750.8	735.1	696.3	650.1	528.9	354.2	206.2	136.9	115.6	111.0	111.0
20°	752.7	733.3	685.2	612.1	422.6	220.1	123.0	102.6	94.3	91.5	91.5
22.5°	760.1	734.2	676.9	557.6	307.0	129.5	97.1	86.0	77.7	74.9	74.9
25°	778.6	745.3	678.7	488.2	197.0	98.0	82.3	71.2	62.9	59.2	59.2
27.5°	808.2	770.3	688.9	407.8	123.9	84.1	69.4	57.3	50.9	47.2	47.2
30°	841.5	798.0	693.5	315.3	92.5	71.2	56.4	45.3	40.7	37.9	37.0
32.5°	899.7	846.1	689.8	216.4	75.8	60.1	45.3	36.1	32.4	31.4	31.4
35°	993.1	930.2	682.4	135.9	62.9	48.1	36.1	29.6	26.8	25.9	25.0
37.5°	1119.8	1053.2	660.2	89.7	51.8	37.9	29.6	25.0	22.2	21.3	21.3
40°	1274.2	1193.8	617.7	68.4	44.4	30.5	25.0	21.3	19.4	18.5	18.5
42.5°	1450.8	1350.0	550.2	59.2	37.0	25.9	21.3	17.6	16.6	15.7	15.7
45°	1644.1	1513.7	456.8	52.7	31.4	21.3	17.6	15.7	13.9	13.9	12.9
47.5°	1849.4	1678.3	351.4	46.2	26.8	18.5	15.7	12.9	12.0	11.1	11.1
50°	2047.2	1825.3	246.9	39.8	22.2	15.7	12.9	11.1	10.2	9.2	9.2
52.5°	2186.9	1914.1	174.8	34.2	18.5	13.9	10.2	8.3	7.4	7.4	7.4
55°	2298.8	1969.6	122.1	28.7	15.7	12.0	8.3	6.5	6.5	5.5	5.5
57.5°	2404.2	2005.6	89.7	24.0	12.9	9.2	6.5	4.6	4.6	3.7	3.7
60°	2513.3	2025.1	68.4	19.4	11.1	7.4	4.6	3.7	2.8	2.8	2.8
62.5°	2623.3	2037.1	52.7	15.7	9.2	5.5	3.7	2.8	1.8	0.9	0.9
65°	2719.5	2040.8	40.7	12.0	7.4	3.7	2.8	0.9	0.0	0.0	0.0
67.5°	2748.2	1998.2	31.4	9.2	5.5	2.8	1.8	0.0	0.0	0.0	0.0
70°	2670.5	1885.4	24.0	7.4	4.6	1.8	0.9	0.0	0.0	0.0	0.0
72.5°	2370.0	1581.2	18.5	4.6	3.7	1.8	0.9	0.0	0.0	0.0	0.0
75°	1695.9	843.3	12.9	3.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	780.4	326.4	9.2	2.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
80°	152.6	81.4	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.1	13.9	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	4.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	1.8	0.9	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)