

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: P572797

Luminaire Tested: **ARCH-S-PA2-120-722-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-722-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8841 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

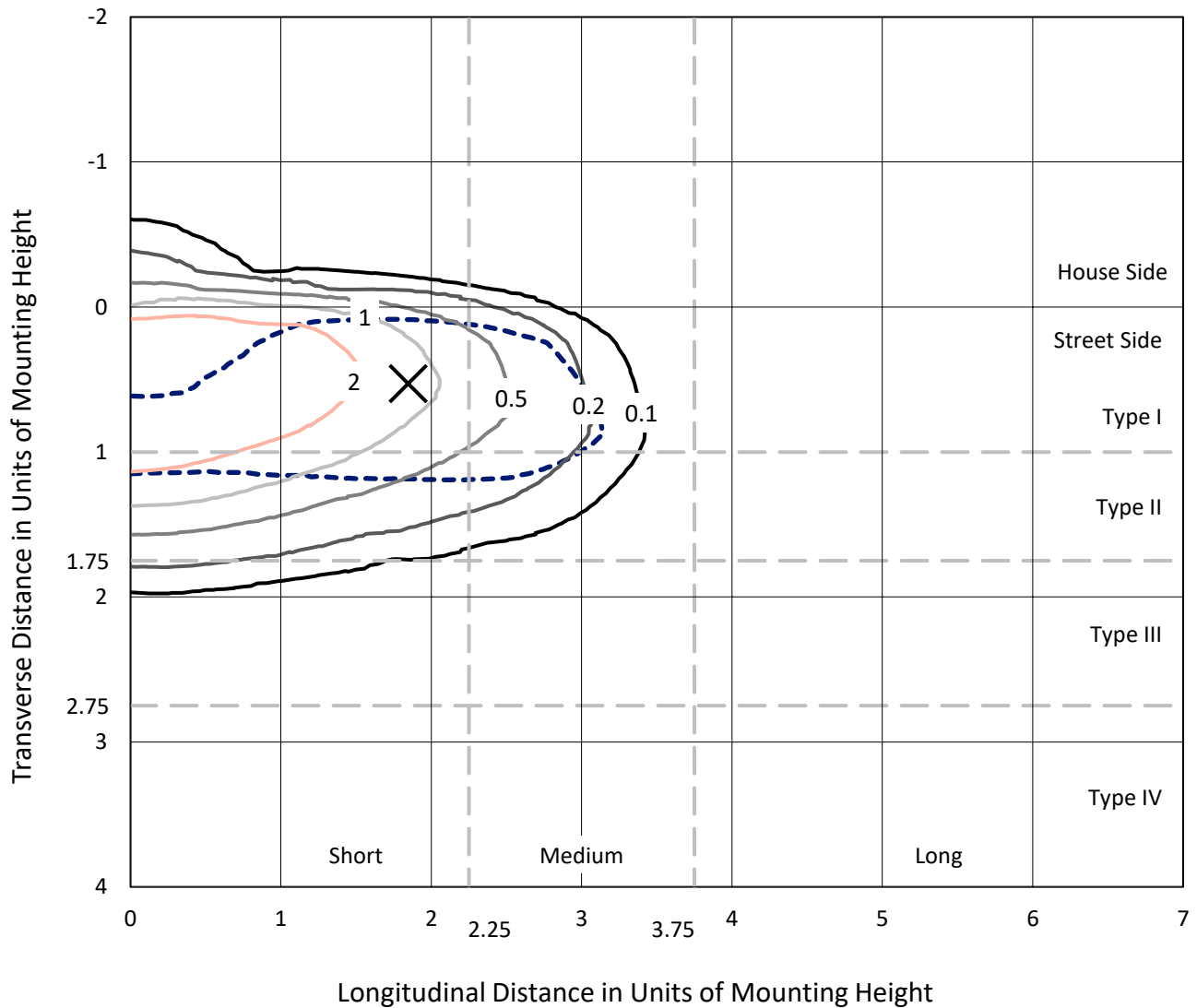
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

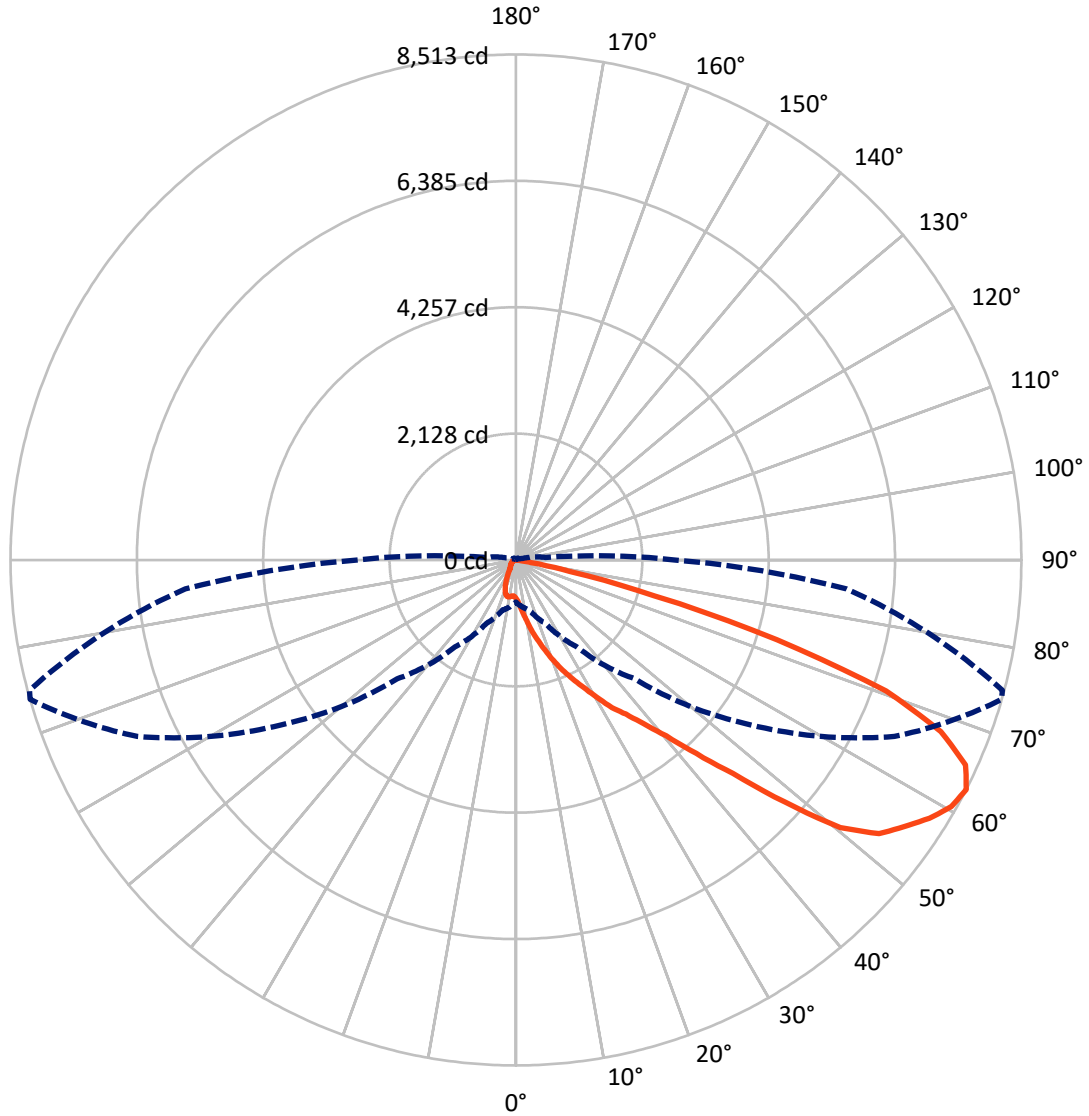
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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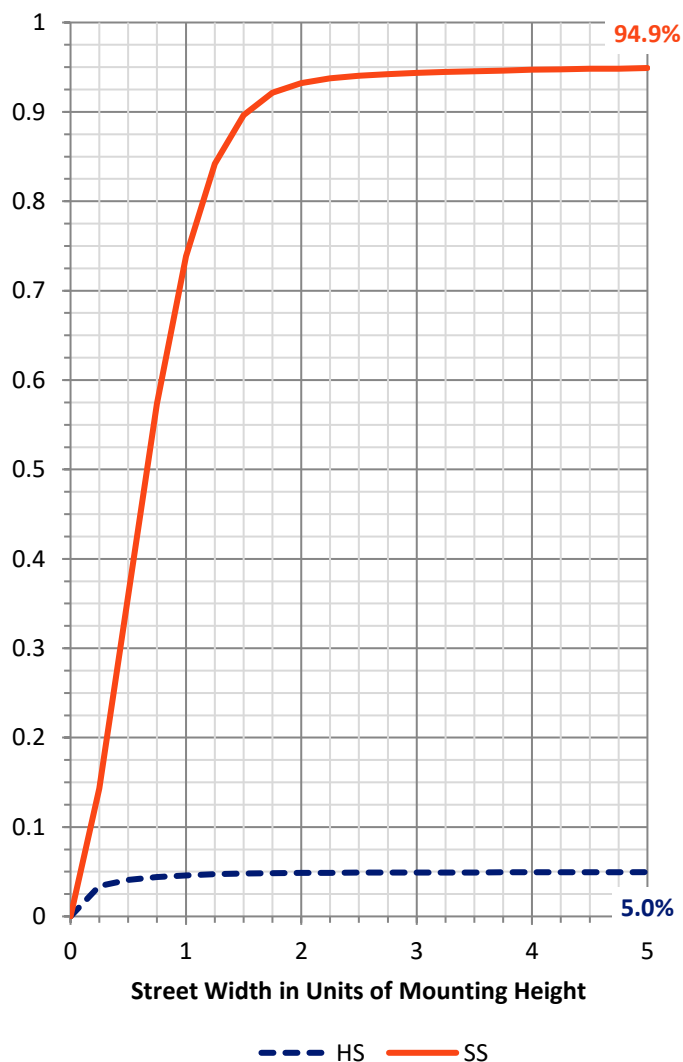
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	440.9	0.0	440.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8400.1	0.0	8400.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	8841.0	0.0	8841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	0.9
10°-20°	340.0	3.8
20°-30°	729.6	8.3
30°-40°	1279.6	14.5
40°-50°	1983.7	22.4
50°-60°	2286.9	25.9
60°-70°	1606.6	18.2
70°-80°	500.5	5.7
80°-90°	33.1	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°	8841.0	100.0
0°-180°	8841.0	100.0

Coefficient of Utilization



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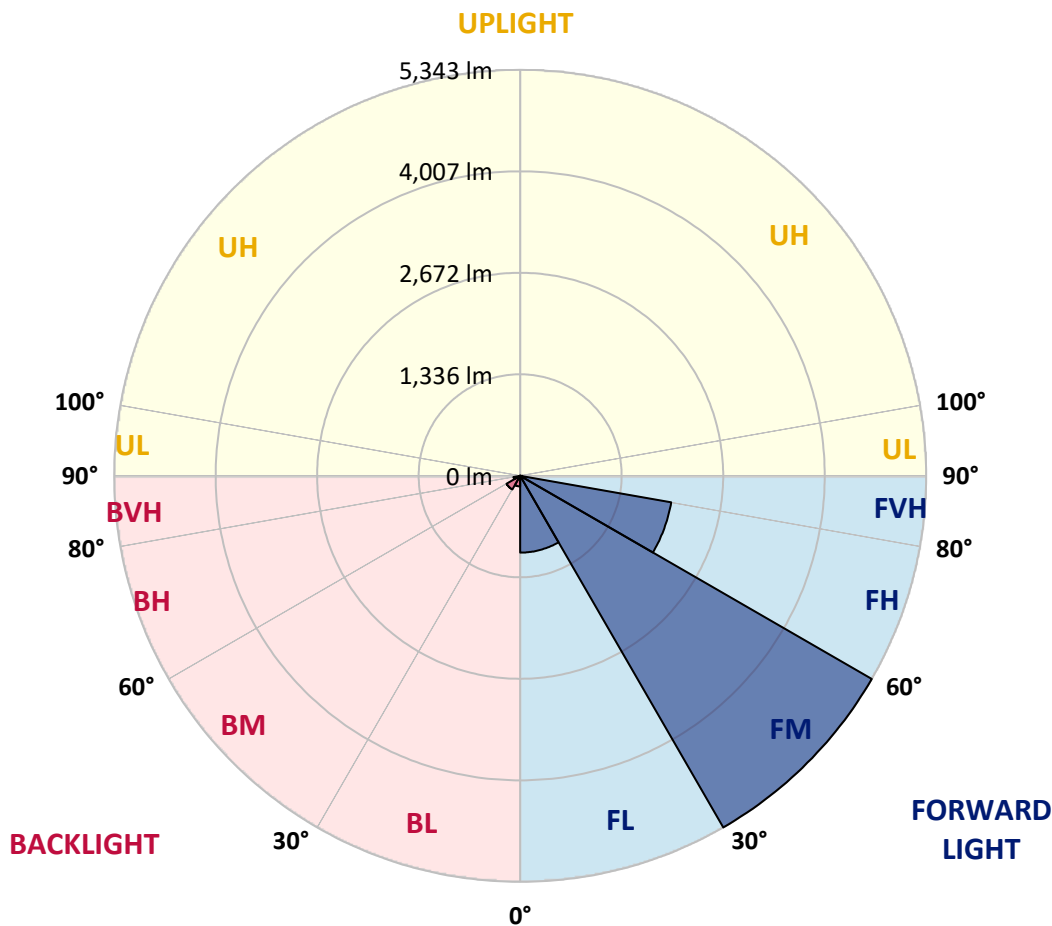
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.6	11.4			
FM (30°-60°)	5343.0	60.4			
FH (60°-80°)	2017.9	22.8			G2/5000
FVH (80°-90°)	28.5	0.3			G1/100
BL (0°-30°)	139.9	1.6	B1/500		
BM (30°-60°)	207.2	2.3	B0/220		
BH (60°-80°)	89.2	1.0	B0/110		G0/110
BVH (80°-90°)	4.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	899.2	883.7	865.0	849.4	818.3	796.5	768.5	737.4	703.2	700.1	672.1
5°	1260.2	1213.5	1213.5	1173.0	1126.4	1042.3	964.6	868.1	796.5	790.3	715.6
7.5°	1630.4	1593.1	1571.3	1509.1	1434.4	1341.0	1216.6	1054.8	924.1	902.3	781.0
10°	1975.8	1947.8	1907.3	1857.6	1792.2	1639.8	1484.2	1272.6	1064.1	1048.6	858.8
12.5°	2243.4	2209.2	2190.5	2168.7	2084.7	1963.3	1761.1	1493.5	1244.6	1210.4	936.6
15°	2445.6	2430.1	2411.4	2411.4	2367.8	2249.6	2041.1	1730.0	1418.8	1378.4	1036.1
17.5°	2607.4	2588.8	2585.6	2604.3	2591.9	2507.9	2311.8	1957.1	1599.3	1568.2	1138.8
20°	2787.9	2763.0	2763.0	2778.6	2775.4	2728.8	2557.6	2218.5	1810.9	1754.9	1257.0
22.5°	3043.0	3027.5	3015.0	2990.1	2971.5	2927.9	2778.6	2473.6	2013.1	1960.2	1378.4
25°	3385.3	3366.6	3310.6	3267.1	3186.2	3120.8	2993.2	2700.8	2218.5	2159.4	1496.6
27.5°	3718.2	3680.9	3628.0	3572.0	3481.7	3369.7	3211.0	2915.5	2433.2	2370.9	1618.0
30°	4069.8	4041.8	3976.5	3886.2	3774.2	3649.8	3460.0	3173.7	2679.0	2610.5	1748.7
32.5°	4349.9	4306.3	4247.2	4160.1	4044.9	3957.8	3752.4	3456.9	2962.1	2871.9	1885.6
35°	4573.9	4539.7	4461.9	4377.9	4290.7	4265.8	4041.8	3687.1	3189.3	3105.3	2031.8
37.5°	4717.0	4682.8	4617.4	4533.4	4499.2	4542.8	4396.5	4001.4	3494.2	3388.4	2199.8
40°	4829.0	4788.6	4735.7	4698.3	4685.9	4807.2	4791.7	4409.0	3895.6	3833.3	2430.1
42.5°	4909.9	4869.5	4835.2	4832.1	4913.0	5149.5	5323.7	4978.4	4455.6	4328.1	2725.7
45°	4807.2	4773.0	4791.7	4900.6	5096.6	5470.0	5967.8	5784.2	5130.8	5040.6	3198.6
47.5°	4521.0	4499.2	4583.2	4782.3	5146.4	5666.0	6590.1	6667.9	6095.4	5958.5	3811.6
50°	4072.9	4069.8	4203.6	4474.3	4990.8	5740.7	6904.4	7517.3	7084.8	6944.8	4309.4
52.5°	3466.2	3453.7	3649.8	4026.3	4623.7	5600.7	6963.5	7856.5	7657.4	7492.4	4623.7
55°	2778.6	2750.6	2983.9	3397.7	4082.3	5193.1	6804.8	7931.2	7931.2	7781.8	4857.0
57.5°	1954.0	1997.6	2190.5	2688.3	3413.3	4583.2	6412.8	7862.7	8208.1	8080.5	5171.3
60°	1232.1	1250.8	1462.4	1863.8	2588.8	3768.0	5712.7	7567.1	8429.0	8354.3	5423.3
62.5°	709.4	768.5	874.3	1179.3	1786.0	2831.4	4847.7	7035.1	8513.0	8481.9	5588.2
65°	432.5	438.7	488.5	665.9	1098.4	1932.2	3880.0	6294.5	8323.2	8351.2	5557.1
67.5°	323.6	323.6	339.2	420.1	625.4	1229.0	2862.6	5395.3	7716.5	7806.7	5264.6
70°	280.0	280.0	283.1	308.0	385.8	728.1	1891.8	4349.9	6615.0	6605.7	4349.9
72.5°	220.9	230.2	248.9	261.4	292.5	426.3	1107.7	3039.9	4595.7	4704.6	2800.3
75°	177.4	180.5	205.4	227.1	245.8	289.4	522.7	1689.5	2411.4	2411.4	1232.1
77.5°	136.9	143.1	158.7	180.5	205.4	205.4	217.8	653.4	933.4	902.3	364.0
80°	87.1	90.2	115.1	143.1	171.1	146.2	118.2	217.8	255.1	245.8	99.6
82.5°	52.9	56.0	74.7	115.1	115.1	80.9	74.7	90.2	80.9	74.7	40.4
85°	15.6	18.7	52.9	74.7	65.3	31.1	37.3	40.4	37.3	34.2	21.8
87.5°	3.1	3.1	15.6	18.7	15.6	15.6	12.4	15.6	15.6	15.6	9.3
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°	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2	647.2
2.5°	656.5	644.1	619.2	600.5	585.0	569.4	557.0	553.8	547.6	547.6	544.5
5°	684.5	656.5	609.9	578.7	553.8	532.1	513.4	494.7	488.5	482.3	485.4
7.5°	728.1	684.5	619.2	572.5	529.0	479.2	438.7	404.5	379.6	373.4	364.0
10°	784.1	718.8	634.7	560.1	479.2	392.0	336.0	301.8	289.4	273.8	276.9
12.5°	840.1	759.2	647.2	525.8	395.2	308.0	261.4	239.6	230.2	227.1	230.2
15°	905.4	802.8	641.0	463.6	317.4	248.9	220.9	211.6	205.4	205.4	202.2
17.5°	970.8	840.1	619.2	382.7	255.1	211.6	199.1	189.8	183.6	180.5	180.5
20°	1042.3	874.3	569.4	304.9	211.6	192.9	180.5	168.0	161.8	161.8	161.8
22.5°	1117.0	899.2	504.1	242.7	189.8	171.1	158.7	149.4	143.1	143.1	143.1
25°	1182.4	911.7	426.3	202.2	174.2	155.6	143.1	133.8	130.7	127.6	127.6
27.5°	1244.6	908.6	345.4	177.4	155.6	140.0	127.6	121.3	115.1	115.1	115.1
30°	1306.8	889.9	273.8	161.8	143.1	124.5	115.1	108.9	105.8	102.7	102.7
32.5°	1359.7	858.8	214.7	149.4	130.7	112.0	102.7	96.5	96.5	93.3	93.3
35°	1412.6	812.1	180.5	140.0	118.2	102.7	93.3	90.2	87.1	87.1	87.1
37.5°	1468.6	753.0	158.7	127.6	105.8	93.3	87.1	84.0	80.9	77.8	77.8
40°	1537.1	693.9	149.4	118.2	96.5	84.0	77.8	74.7	71.6	71.6	71.6
42.5°	1646.0	644.1	140.0	105.8	87.1	77.8	71.6	65.3	65.3	62.2	62.2
45°	1851.3	625.4	130.7	96.5	80.9	68.5	65.3	59.1	56.0	56.0	56.0
47.5°	2118.9	628.5	121.3	87.1	74.7	62.2	59.1	56.0	49.8	49.8	49.8
50°	2339.8	613.0	112.0	80.9	65.3	59.1	52.9	49.8	46.7	46.7	46.7
52.5°	2427.0	585.0	102.7	74.7	62.2	52.9	49.8	46.7	43.6	43.6	43.6
55°	2514.1	572.5	93.3	65.3	56.0	52.9	46.7	43.6	40.4	37.3	37.3
57.5°	2672.8	578.7	84.0	62.2	52.9	49.8	43.6	37.3	31.1	28.0	28.0
60°	2756.8	557.0	77.8	56.0	49.8	46.7	37.3	28.0	21.8	18.7	18.7
62.5°	2685.2	494.7	71.6	52.9	46.7	40.4	28.0	21.8	15.6	9.3	9.3
65°	2486.1	407.6	65.3	49.8	40.4	31.1	24.9	15.6	9.3	6.2	6.2
67.5°	2234.0	320.5	59.1	46.7	37.3	28.0	21.8	12.4	6.2	3.1	3.1
70°	1804.7	230.2	56.0	43.6	34.2	24.9	18.7	12.4	6.2	3.1	3.1
72.5°	1163.7	149.4	49.8	40.4	31.1	24.9	15.6	9.3	6.2	3.1	3.1
75°	538.3	99.6	46.7	37.3	31.1	21.8	15.6	12.4	6.2	3.1	3.1
77.5°	158.7	71.6	43.6	34.2	28.0	21.8	15.6	12.4	6.2	3.1	3.1
80°	65.3	49.8	34.2	31.1	28.0	21.8	15.6	12.4	6.2	3.1	3.1
82.5°	31.1	21.8	15.6	12.4	15.6	15.6	12.4	12.4	6.2	3.1	3.1
85°	15.6	9.3	6.2	6.2	6.2	3.1	3.1	6.2	6.2	3.1	3.1
87.5°	9.3	6.2	6.2	6.2	3.1	3.1	3.1	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)