

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: P572914

Luminaire Tested: **ARCH-S-PA2-130-740-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572914
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-PA2-130-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA 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: 12471 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

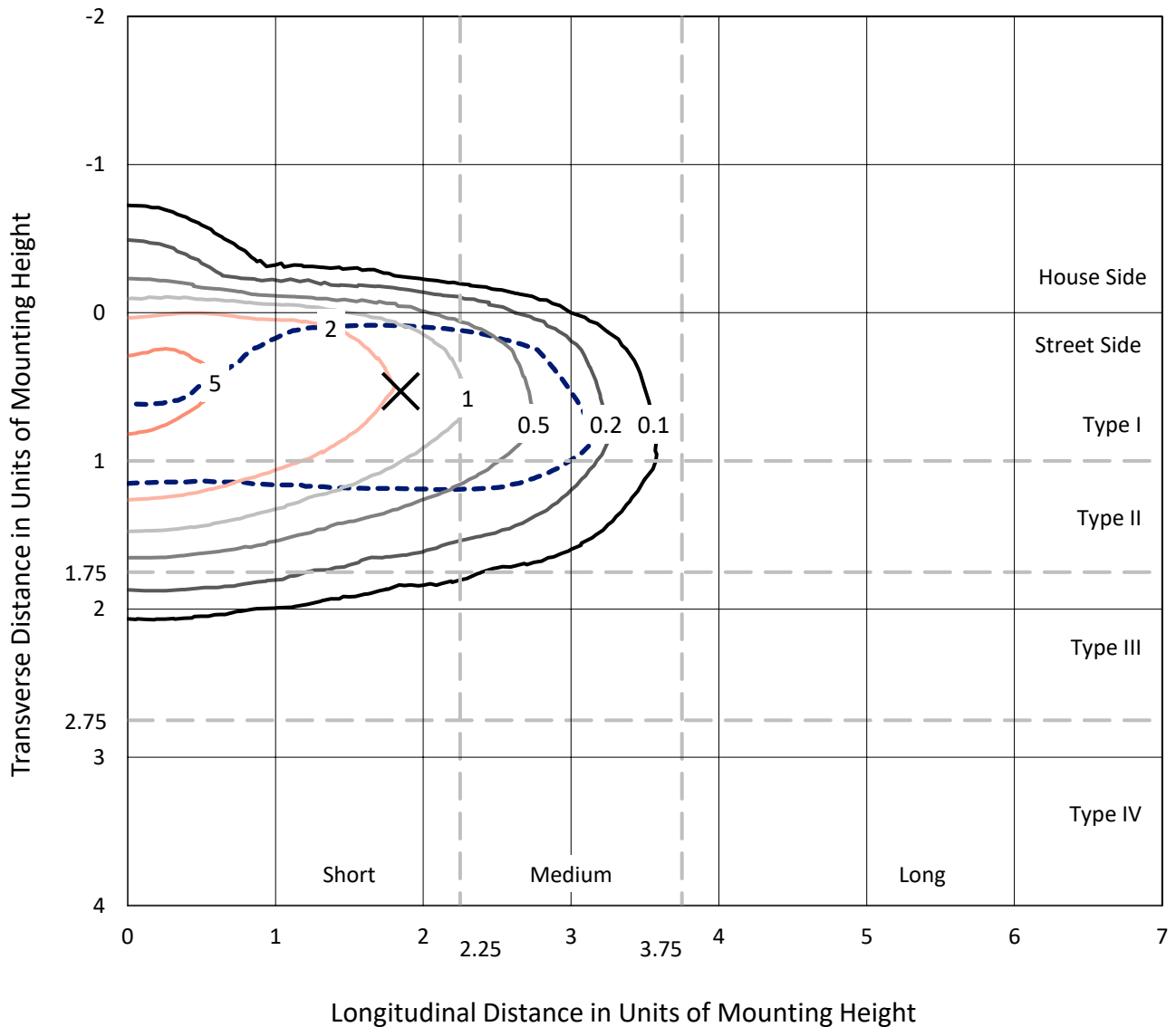
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

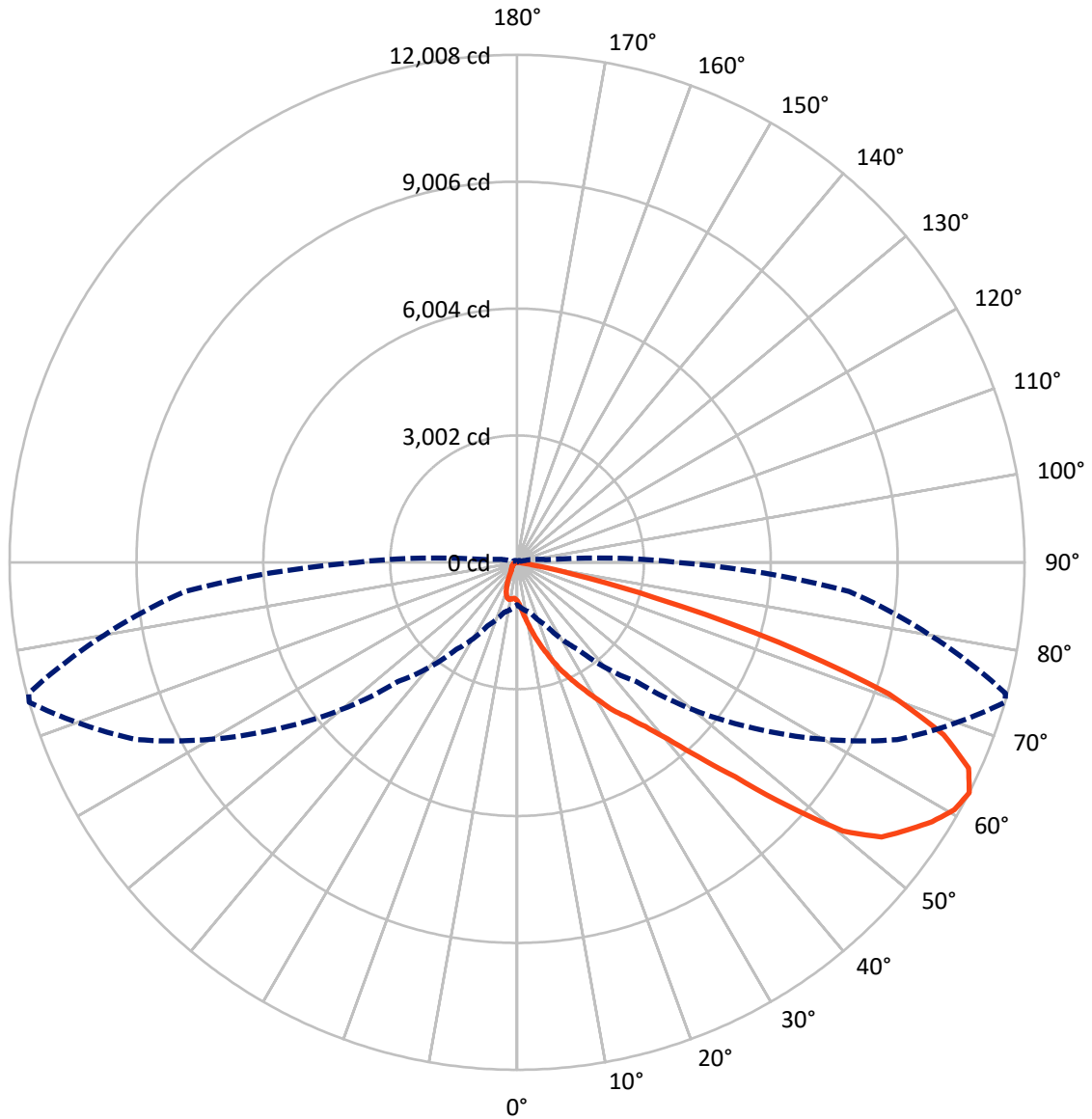
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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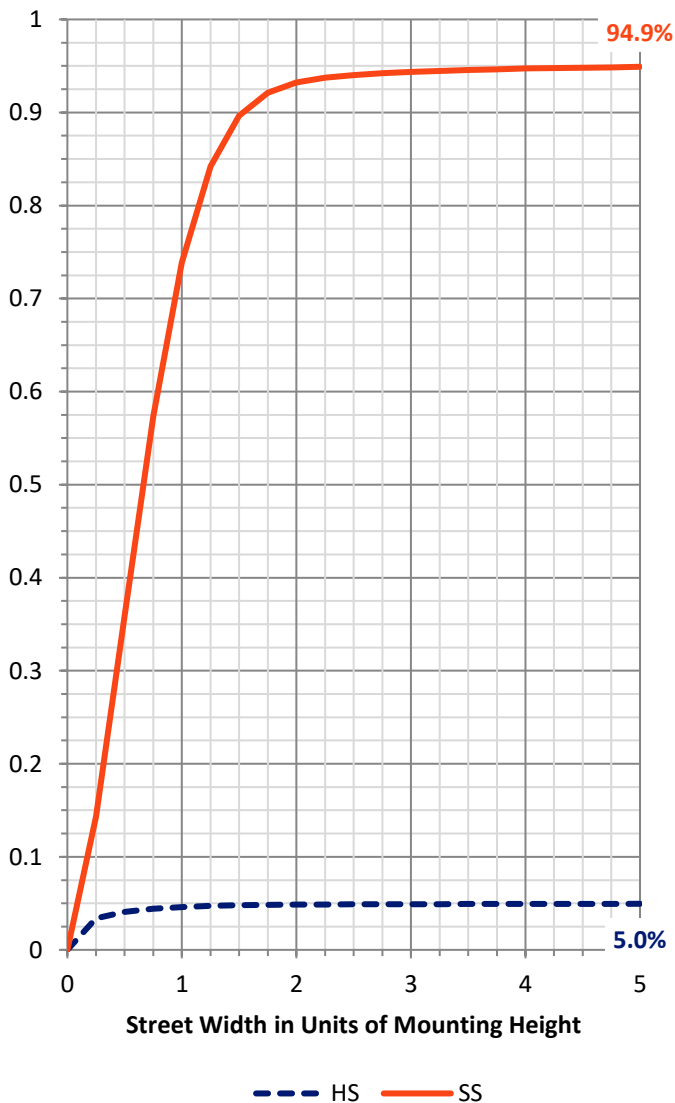
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	622.0	0.0	622.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11849.0	0.0	11849.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	12471.0	0.0	12471.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	0.9
10°-20°	479.6	3.8
20°-30°	1029.2	8.3
30°-40°	1805.0	14.5
40°-50°	2798.2	22.4
50°-60°	3225.9	25.9
60°-70°	2266.3	18.2
70°-80°	706.1	5.7
80°-90°	46.7	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°	12471.0	100.0
0°-180°	12471.0	100.0



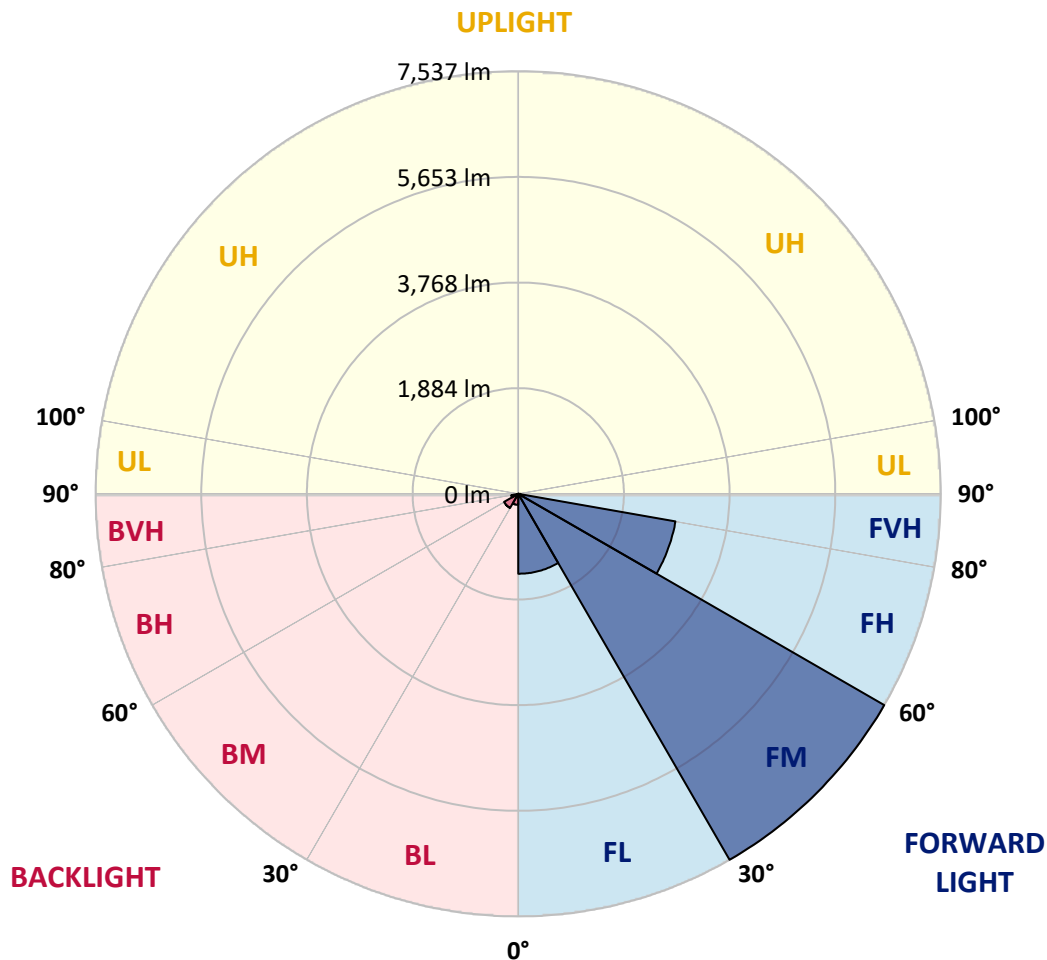
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.5	11.4			
FM (30°-60°)	7536.8	60.4			
FH (60°-80°)	2846.4	22.8			G2/5000
FVH (80°-90°)	40.3	0.3			G1/100
BL (0°-30°)	197.4	1.6	B1/500		
BM (30°-60°)	292.3	2.3	B1/1000		
BH (60°-80°)	125.9	1.0	B1/500		G1/500
BVH (80°-90°)	6.4	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°	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9
2.5°	1268.4	1246.5	1220.1	1198.2	1154.3	1123.6	1084.1	1040.2	991.9	987.5	948.0
5°	1777.6	1711.7	1711.7	1654.7	1588.8	1470.3	1360.6	1224.5	1123.6	1114.8	1009.5
7.5°	2299.8	2247.2	2216.5	2128.7	2023.3	1891.7	1716.1	1487.9	1303.5	1272.8	1101.6
10°	2787.0	2747.5	2690.5	2620.2	2528.1	2313.0	2093.6	1795.1	1501.0	1479.1	1211.4
12.5°	3164.5	3116.2	3089.9	3059.1	2940.6	2769.5	2484.2	2106.7	1755.6	1707.3	1321.1
15°	3449.8	3427.8	3401.5	3401.5	3340.0	3173.3	2879.2	2440.3	2001.4	1944.3	1461.5
17.5°	3678.0	3651.7	3647.3	3673.6	3656.1	3537.5	3261.0	2760.7	2256.0	2212.1	1606.4
20°	3932.6	3897.4	3897.4	3919.4	3915.0	3849.2	3607.8	3129.4	2554.4	2475.4	1773.2
22.5°	4292.5	4270.5	4253.0	4217.8	4191.5	4130.1	3919.4	3489.3	2839.7	2765.1	1944.3
25°	4775.2	4748.9	4669.9	4608.5	4494.4	4402.2	4222.2	3809.7	3129.4	3046.0	2111.1
27.5°	5244.9	5192.2	5117.6	5038.6	4911.3	4753.3	4529.5	4112.5	3432.2	3344.4	2282.3
30°	5740.8	5701.3	5609.2	5481.9	5323.9	5148.3	4880.6	4476.8	3778.9	3682.4	2466.6
32.5°	6135.8	6074.4	5991.0	5868.1	5705.7	5582.8	5293.2	4876.2	4178.3	4051.1	2659.7
35°	6451.9	6403.6	6293.8	6175.3	6052.5	6017.3	5701.3	5201.0	4498.7	4380.2	2866.0
37.5°	6653.7	6605.5	6513.3	6394.8	6346.5	6408.0	6201.7	5644.3	4928.9	4779.6	3103.0
40°	6811.8	6754.7	6680.1	6627.4	6609.9	6781.0	6759.1	6219.2	5495.0	5407.3	3427.8
42.5°	6925.9	6868.8	6820.5	6816.1	6930.3	7263.8	7509.6	7022.4	6285.1	6105.1	3844.8
45°	6781.0	6732.8	6759.1	6912.7	7189.2	7715.9	8418.1	8159.2	7237.5	7110.2	4511.9
47.5°	6377.2	6346.5	6465.0	6745.9	7259.4	7992.4	9295.9	9405.7	8598.1	8405.0	5376.5
50°	5745.2	5740.8	5929.6	6311.4	7040.0	8097.7	9739.2	10603.9	9993.8	9796.3	6078.8
52.5°	4889.4	4871.8	5148.3	5679.4	6522.1	7900.2	9822.6	11082.3	10801.4	10568.8	6522.1
55°	3919.4	3879.9	4209.1	4792.8	5758.4	7325.3	9598.8	11187.6	11187.6	10976.9	6851.3
57.5°	2756.3	2817.7	3089.9	3792.1	4814.8	6465.0	9045.8	11091.0	11578.2	11398.3	7294.5
60°	1738.1	1764.4	2062.8	2629.0	3651.7	5315.1	8058.2	10674.1	11889.8	11784.5	7650.1
62.5°	1000.7	1084.1	1233.3	1663.4	2519.3	3994.0	6838.1	9923.6	12008.3	11964.5	7882.7
65°	610.1	618.9	689.1	939.2	1549.3	2725.6	5473.1	8879.0	11740.6	11780.1	7838.8
67.5°	456.5	456.5	478.4	592.5	882.2	1733.7	4037.9	7610.6	10884.8	11012.0	7426.2
70°	395.0	395.0	399.4	434.5	544.2	1027.0	2668.5	6135.8	9331.0	9317.9	6135.8
72.5°	311.6	324.8	351.1	368.7	412.6	601.3	1562.5	4288.1	6482.6	6636.2	3950.1
75°	250.2	254.6	289.7	320.4	346.7	408.2	737.4	2383.2	3401.5	3401.5	1738.1
77.5°	193.1	201.9	223.8	254.6	289.7	289.7	307.2	921.7	1316.7	1272.8	513.5
80°	122.9	127.3	162.4	201.9	241.4	206.3	166.8	307.2	359.9	346.7	140.4
82.5°	74.6	79.0	105.3	162.4	162.4	114.1	105.3	127.3	114.1	105.3	57.1
85°	21.9	26.3	74.6	105.3	92.2	43.9	52.7	57.1	52.7	48.3	30.7
87.5°	4.4	4.4	21.9	26.3	21.9	21.9	17.6	21.9	21.9	21.9	13.2
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°	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9	912.9
2.5°	926.1	908.5	873.4	847.1	825.1	803.2	785.6	781.2	772.5	772.5	768.1
5°	965.6	926.1	860.2	816.4	781.2	750.5	724.2	697.9	689.1	680.3	684.7
7.5°	1027.0	965.6	873.4	807.6	746.1	675.9	618.9	570.6	535.5	526.7	513.5
10°	1106.0	1013.9	895.4	790.0	675.9	553.0	474.0	425.7	408.2	386.2	390.6
12.5°	1185.0	1070.9	912.9	741.7	557.4	434.5	368.7	338.0	324.8	320.4	324.8
15°	1277.2	1132.4	904.1	654.0	447.7	351.1	311.6	298.5	289.7	289.7	285.3
17.5°	1369.4	1185.0	873.4	539.8	359.9	298.5	280.9	267.7	259.0	254.6	254.6
20°	1470.3	1233.3	803.2	430.1	298.5	272.1	254.6	237.0	228.2	228.2	228.2
22.5°	1575.7	1268.4	711.0	342.3	267.7	241.4	223.8	210.7	201.9	201.9	201.9
25°	1667.8	1286.0	601.3	285.3	245.8	219.5	201.9	188.7	184.3	179.9	179.9
27.5°	1755.6	1281.6	487.2	250.2	219.5	197.5	179.9	171.2	162.4	162.4	162.4
30°	1843.4	1255.3	386.2	228.2	201.9	175.6	162.4	153.6	149.2	144.8	144.8
32.5°	1918.0	1211.4	302.8	210.7	184.3	158.0	144.8	136.1	136.1	131.7	131.7
35°	1992.6	1145.5	254.6	197.5	166.8	144.8	131.7	127.3	122.9	122.9	122.9
37.5°	2071.6	1062.1	223.8	179.9	149.2	131.7	122.9	118.5	114.1	109.7	109.7
40°	2168.2	978.8	210.7	166.8	136.1	118.5	109.7	105.3	100.9	100.9	100.9
42.5°	2321.8	908.5	197.5	149.2	122.9	109.7	100.9	92.2	92.2	87.8	87.8
45°	2611.5	882.2	184.3	136.1	114.1	96.6	92.2	83.4	79.0	79.0	79.0
47.5°	2988.9	886.6	171.2	122.9	105.3	87.8	83.4	79.0	70.2	70.2	70.2
50°	3300.5	864.6	158.0	114.1	92.2	83.4	74.6	70.2	65.8	65.8	65.8
52.5°	3423.4	825.1	144.8	105.3	87.8	74.6	70.2	65.8	61.4	61.4	61.4
55°	3546.3	807.6	131.7	92.2	79.0	74.6	65.8	61.4	57.1	52.7	52.7
57.5°	3770.2	816.4	118.5	87.8	74.6	70.2	61.4	52.7	43.9	39.5	39.5
60°	3888.7	785.6	109.7	79.0	70.2	65.8	52.7	39.5	30.7	26.3	26.3
62.5°	3787.7	697.9	100.9	74.6	65.8	57.1	39.5	30.7	21.9	13.2	13.2
65°	3506.8	575.0	92.2	70.2	57.1	43.9	35.1	21.9	13.2	8.8	8.8
67.5°	3151.3	452.1	83.4	65.8	52.7	39.5	30.7	17.6	8.8	4.4	4.4
70°	2545.6	324.8	79.0	61.4	48.3	35.1	26.3	17.6	8.8	4.4	4.4
72.5°	1641.5	210.7	70.2	57.1	43.9	35.1	21.9	13.2	8.8	4.4	4.4
75°	759.3	140.4	65.8	52.7	43.9	30.7	21.9	17.6	8.8	4.4	4.4
77.5°	223.8	100.9	61.4	48.3	39.5	30.7	21.9	17.6	8.8	4.4	4.4
80°	92.2	70.2	48.3	43.9	39.5	30.7	21.9	17.6	8.8	4.4	4.4
82.5°	43.9	30.7	21.9	17.6	21.9	21.9	17.6	17.6	8.8	4.4	4.4
85°	21.9	13.2	8.8	8.8	8.8	4.4	4.4	8.8	8.8	4.4	4.4
87.5°	13.2	8.8	8.8	8.8	4.4	4.4	4.4	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)