

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: P400501

Luminaire Tested: **ARCH-L-PA3-90-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10333 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

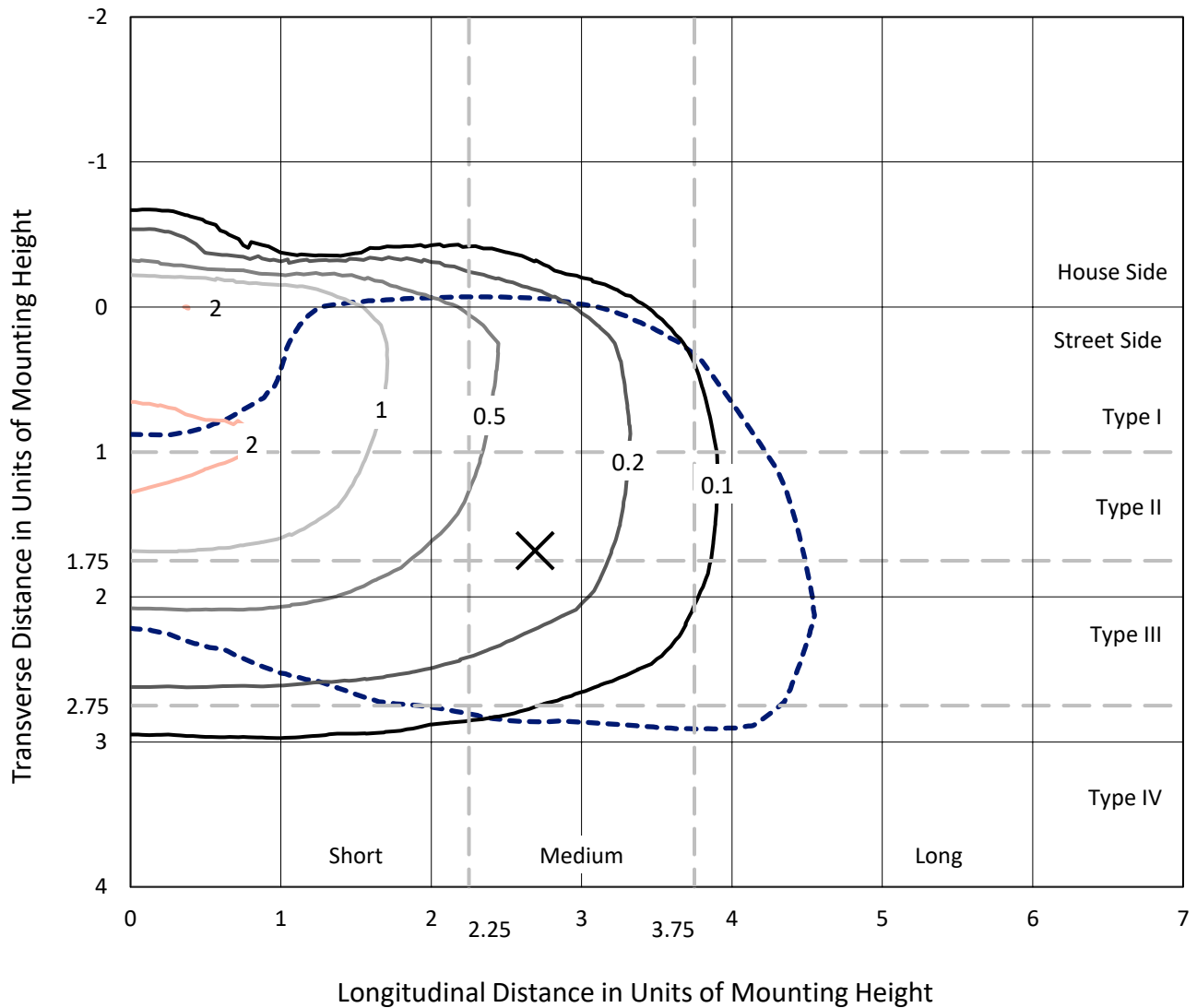
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

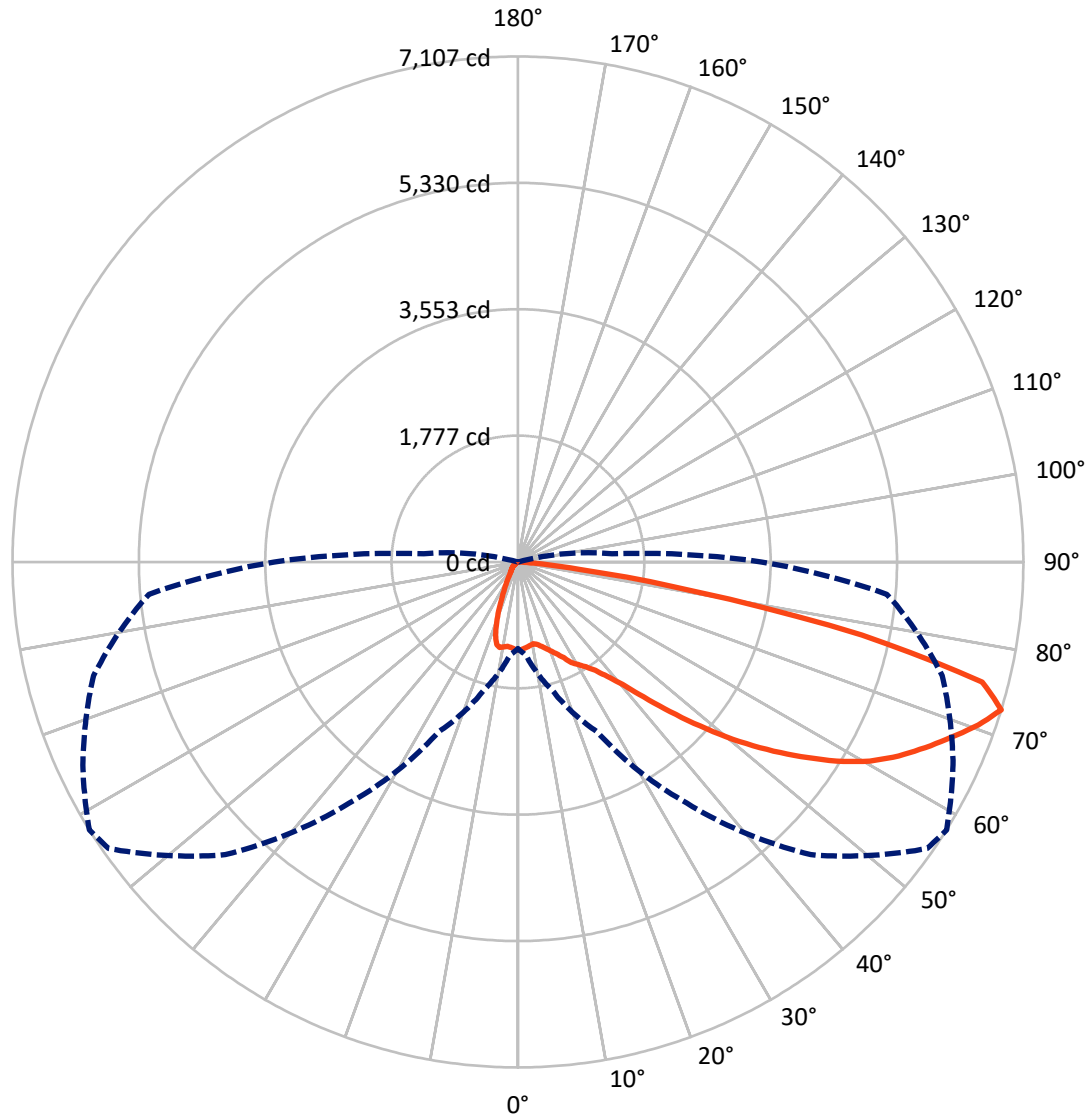
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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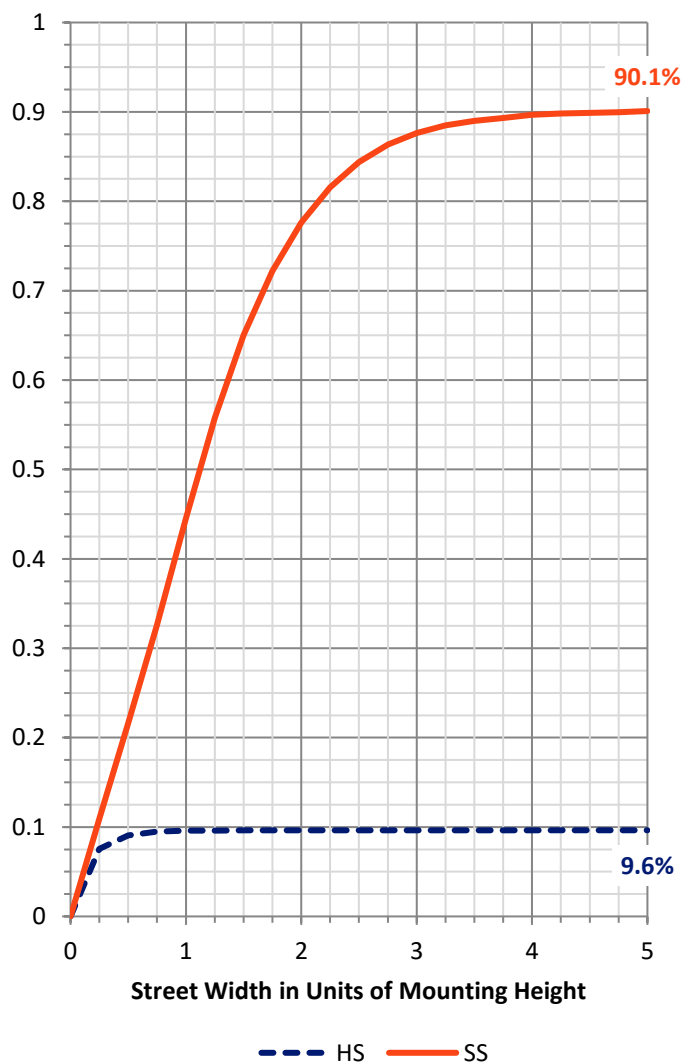
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1004.8	0.0	1004.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	9328.2	0.0	9328.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	10333.0	0.0	10333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.1
10°-20°	296.4	2.9
20°-30°	465.6	4.5
30°-40°	802.9	7.8
40°-50°	1527.7	14.8
50°-60°	2419.3	23.4
60°-70°	2823.1	27.3
70°-80°	1768.1	17.1
80°-90°	116.1	1.1
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°	10333.0	100.0
0°-180°	10333.0	100.0

Coefficient of Utilization

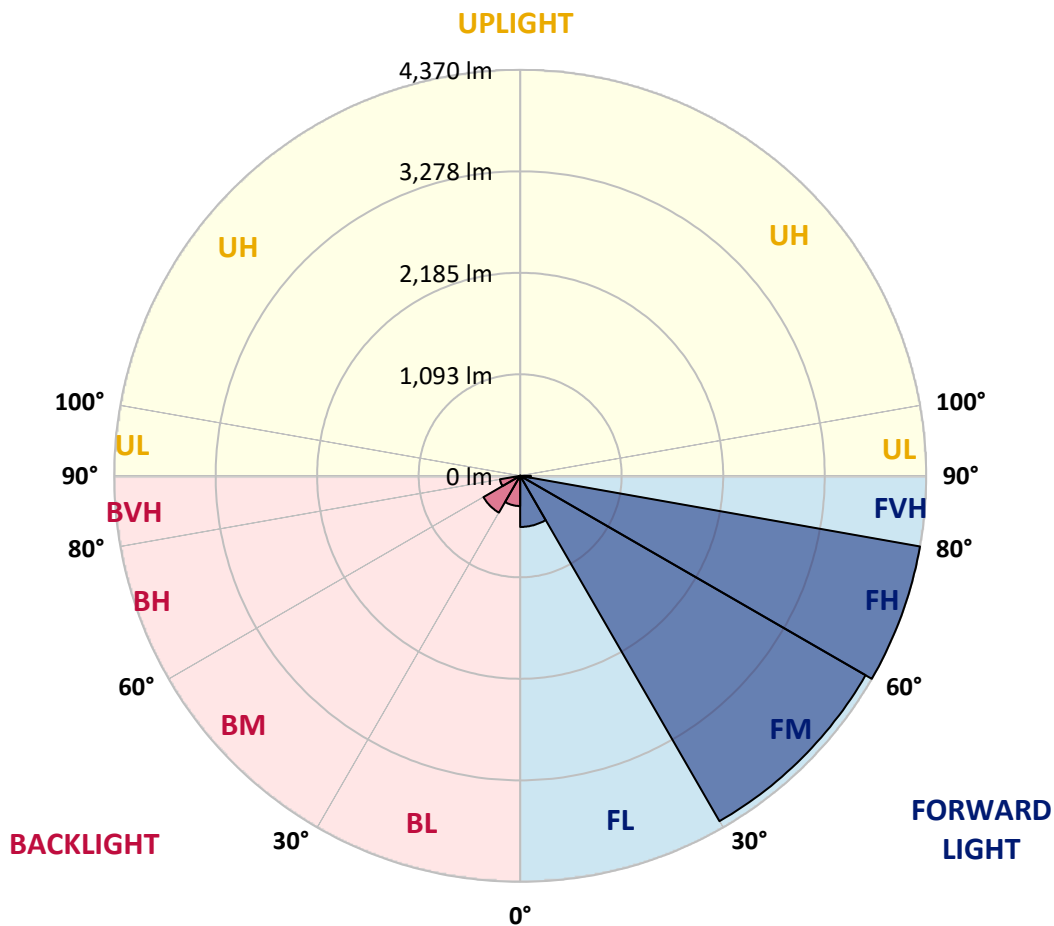


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.4	5.3			
FM (30°-60°)	4292.8	41.5			
FH (60°-80°)	4370.1	42.3			G2/5000
FVH (80°-90°)	114.9	1.1			G2/225
BL (0°-30°)	325.4	3.1	B1/500		
BM (30°-60°)	457.2	4.4	B1/1000		
BH (60°-80°)	221.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1234.4	1228.8	1227.0	1225.1	1227.0	1228.8	1223.3	1228.8	1225.1	1227.0	1230.7
5°	1190.0	1184.5	1182.6	1184.5	1190.0	1199.2	1202.9	1208.5	1208.5	1214.0	1215.9
7.5°	1140.1	1136.4	1134.6	1138.3	1149.4	1169.7	1180.8	1188.2	1195.5	1206.6	1217.7
10°	1112.4	1110.5	1108.7	1114.2	1125.3	1143.8	1158.6	1169.7	1197.4	1228.8	1249.1
12.5°	1093.9	1093.9	1097.6	1108.7	1123.5	1138.3	1173.4	1188.2	1230.7	1278.7	1306.4
15°	1079.1	1079.1	1084.7	1105.0	1125.3	1160.4	1212.2	1228.8	1278.7	1337.8	1374.8
17.5°	1068.0	1071.7	1075.4	1095.8	1134.6	1193.7	1254.7	1278.7	1339.7	1404.4	1445.0
20°	1069.9	1073.6	1075.4	1095.8	1151.2	1232.5	1310.1	1337.8	1408.0	1476.4	1517.1
22.5°	1081.0	1086.5	1088.4	1116.1	1180.8	1273.2	1372.9	1404.4	1480.1	1552.2	1583.6
25°	1127.2	1130.9	1119.8	1143.8	1223.3	1336.0	1454.2	1487.5	1563.3	1629.8	1655.7
27.5°	1284.2	1287.9	1227.0	1199.2	1256.5	1387.7	1554.0	1600.2	1694.5	1738.8	1742.5
30°	1624.2	1627.9	1507.8	1376.6	1336.0	1432.1	1609.5	1674.1	1796.1	1846.0	1823.8
32.5°	2062.2	2058.5	1894.0	1700.0	1524.5	1509.7	1688.9	1757.3	1890.3	1938.4	1921.7
35°	2502.0	2507.5	2367.1	2075.1	1823.8	1655.7	1790.6	1870.0	2030.8	2099.1	2069.6
37.5°	2803.2	2840.1	2779.1	2463.2	2191.5	1925.4	1955.0	2040.0	2241.4	2333.8	2271.0
40°	3228.2	3218.9	3071.1	2838.3	2598.1	2324.6	2221.1	2261.7	2492.7	2616.5	2518.6
42.5°	3799.1	3780.7	3529.4	3302.1	3034.1	2810.6	2599.9	2592.5	2781.0	2925.1	2782.8
45°	4316.5	4288.8	4117.0	3897.1	3603.3	3346.4	3061.9	2997.2	3128.4	3250.3	3084.0
47.5°	4728.6	4682.4	4560.5	4444.0	4372.0	3972.8	3546.0	3448.1	3514.6	3605.1	3370.5
50°	5216.4	5088.9	4911.5	4841.3	4991.0	4682.4	4011.6	3917.4	3913.7	3965.5	3666.1
52.5°	5438.2	5207.2	5107.4	5166.5	5430.8	5342.1	4514.3	4379.4	4325.8	4331.3	3941.4
55°	5170.2	5144.4	5198.0	5382.7	5728.3	5676.5	4996.5	4830.2	4750.8	4651.0	4205.7
57.5°	4865.3	4944.8	5157.3	5510.2	6105.2	6025.8	5471.4	5283.0	5137.0	4907.8	4499.5
60°	4584.5	4665.8	5016.9	5539.8	6312.2	6362.1	5866.9	5687.6	5471.4	5170.2	4822.8
62.5°	4157.6	4220.5	4713.8	5497.3	6221.7	6558.0	6142.2	6007.3	5805.9	5419.7	5194.3
65°	3677.2	3717.8	4205.7	5157.3	6044.3	6535.8	6369.5	6293.7	6097.9	5680.2	5562.0
67.5°	3150.6	3198.6	3605.1	4545.7	5696.9	6432.3	6583.8	6576.4	6352.9	5968.5	5828.1
70°	2544.5	2548.2	2884.5	3769.6	5090.8	6225.4	6849.9	6866.6	6596.8	6184.7	5839.2
72.5°	1217.7	1317.5	1870.0	2631.3	4137.3	5818.8	7023.6	7106.8	6750.1	6177.3	5209.0
75°	279.0	288.3	545.1	1251.0	2426.2	4466.2	6589.4	6744.6	6376.9	5342.1	3669.8
77.5°	101.6	107.2	153.4	365.9	933.2	2307.9	4715.7	4943.0	4713.8	3453.6	1735.1
80°	68.4	66.5	79.5	162.6	428.7	654.1	2411.4	2546.3	2324.6	1178.9	415.8
82.5°	35.1	37.0	55.4	90.5	288.3	227.3	805.7	875.9	720.7	236.5	77.6
85°	16.6	16.6	31.4	57.3	122.0	79.5	179.2	216.2	194.0	103.5	25.9
87.5°	16.6	16.6	29.6	37.0	62.8	33.3	44.3	55.4	51.7	55.4	9.2
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°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1230.7	1228.8	1227.0	1230.7	1228.8	1232.5	1232.5	1236.2	1236.2	1232.5	1230.7
5°	1214.0	1210.3	1206.6	1206.6	1204.8	1208.5	1219.6	1228.8	1230.7	1225.1	1223.3
7.5°	1215.9	1215.9	1212.2	1204.8	1191.9	1191.9	1191.9	1202.9	1208.5	1204.8	1202.9
10°	1249.1	1251.0	1241.7	1225.1	1202.9	1182.6	1143.8	1086.5	1032.9	1018.2	1012.6
12.5°	1306.4	1308.3	1289.8	1260.2	1214.0	1093.9	946.1	809.4	704.0	674.5	668.9
15°	1374.8	1376.6	1343.4	1295.3	1154.9	875.9	656.0	500.8	408.4	386.2	384.3
17.5°	1445.0	1441.3	1391.4	1299.0	979.4	620.9	399.1	319.7	295.7	290.1	292.0
20°	1513.4	1502.3	1433.9	1230.7	753.9	406.5	292.0	273.5	267.9	264.2	264.2
22.5°	1576.2	1554.0	1469.0	1095.8	528.5	292.0	260.5	256.8	249.5	243.9	242.1
25°	1639.0	1607.6	1491.2	920.2	354.8	255.0	245.8	238.4	229.1	221.7	219.9
27.5°	1714.8	1670.4	1480.1	698.5	266.1	236.5	229.1	218.0	205.1	194.0	190.3
30°	1786.9	1737.0	1417.3	482.3	227.3	218.0	207.0	190.3	173.7	160.8	157.1
32.5°	1877.4	1820.1	1304.6	316.0	197.7	190.3	179.2	158.9	136.7	122.0	118.3
35°	2006.7	1942.1	1160.4	221.7	173.7	160.8	146.0	123.8	99.8	88.7	86.8
37.5°	2187.8	2101.0	979.4	179.2	153.4	134.9	112.7	90.5	73.9	64.7	62.8
40°	2409.6	2276.5	777.9	158.9	136.7	112.7	85.0	64.7	53.6	46.2	46.2
42.5°	2649.8	2441.0	572.8	146.0	120.1	92.4	62.8	46.2	38.8	35.1	33.3
45°	2897.4	2587.0	386.2	134.9	105.3	70.2	44.3	31.4	25.9	25.9	24.0
47.5°	3154.3	2684.9	249.5	122.0	88.7	51.7	29.6	22.2	18.5	18.5	18.5
50°	3409.3	2736.6	177.4	110.9	72.1	35.1	22.2	16.6	14.8	14.8	14.8
52.5°	3594.0	2703.4	142.3	96.1	55.4	25.9	16.6	12.9	11.1	11.1	11.1
55°	3754.8	2646.1	123.8	83.2	40.7	18.5	12.9	11.1	9.2	9.2	9.2
57.5°	3919.3	2572.2	110.9	70.2	29.6	12.9	9.2	7.4	7.4	7.4	7.4
60°	4068.9	2446.5	96.1	55.4	20.3	9.2	7.4	5.5	5.5	5.5	5.5
62.5°	4214.9	2339.4	83.2	42.5	14.8	7.4	3.7	3.7	1.8	1.8	1.8
65°	4298.1	2195.2	66.5	27.7	9.2	5.5	1.8	1.8	0.0	0.0	0.0
67.5°	4272.2	2023.4	46.2	16.6	5.5	3.7	1.8	0.0	0.0	0.0	0.0
70°	4093.0	1792.4	27.7	9.2	5.5	3.7	1.8	0.0	0.0	0.0	0.0
72.5°	3427.7	1326.7	16.6	7.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0
75°	2289.5	609.8	9.2	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	1047.7	182.9	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	210.7	48.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.8	0.0	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)