

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: P572936

Luminaire Tested: **ARCH-S-PA2-130-760-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-760-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12063 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

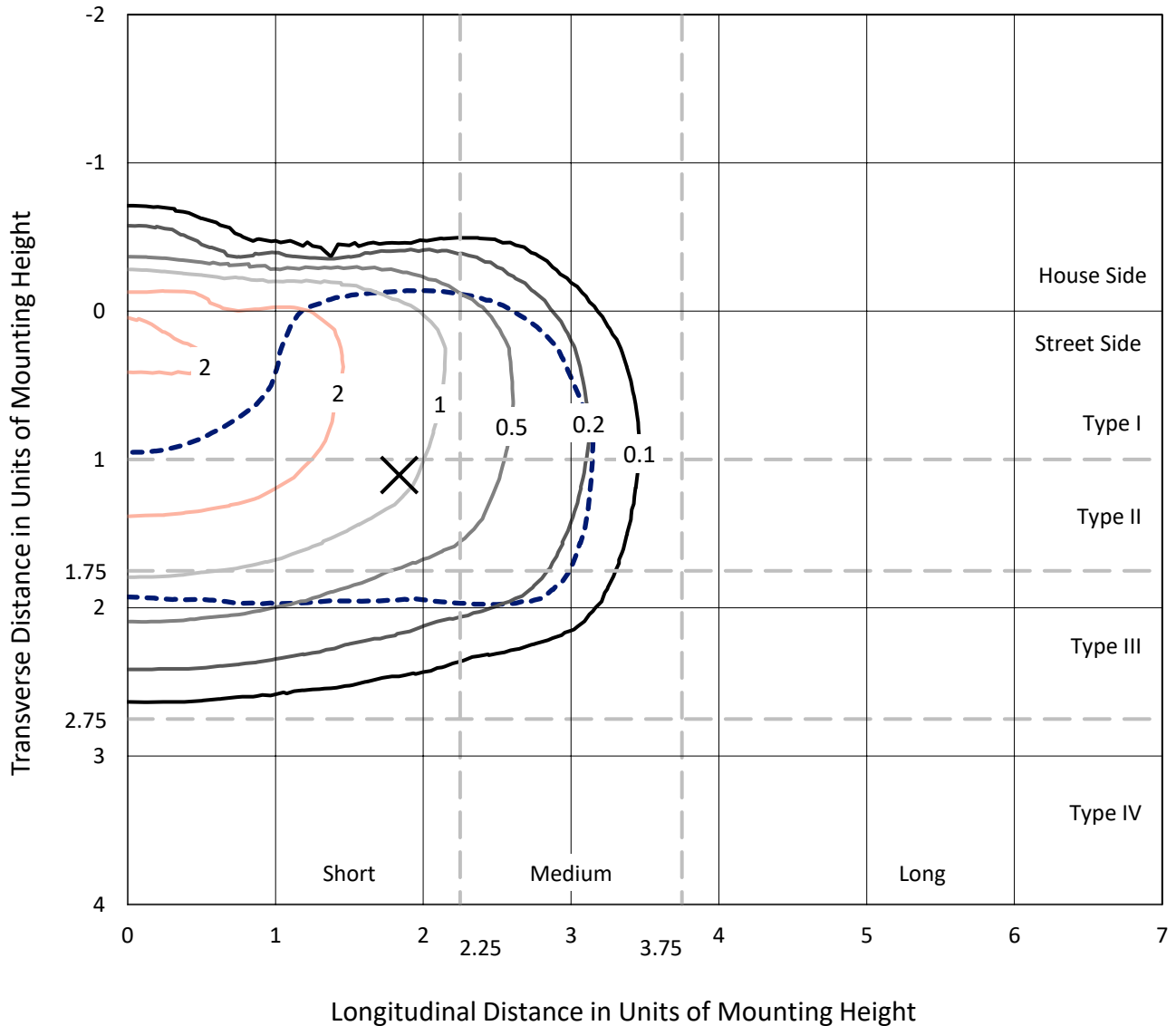
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

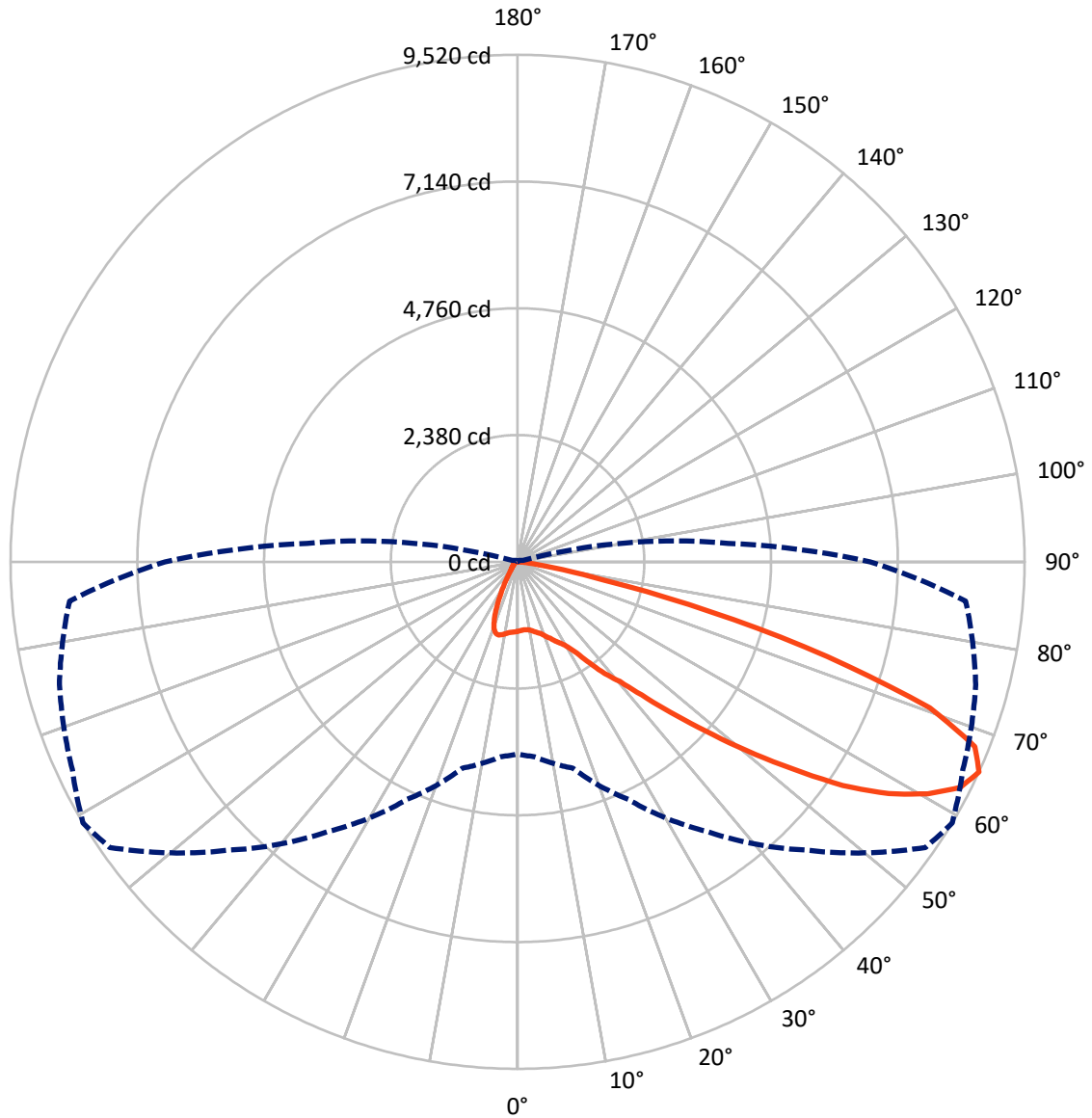
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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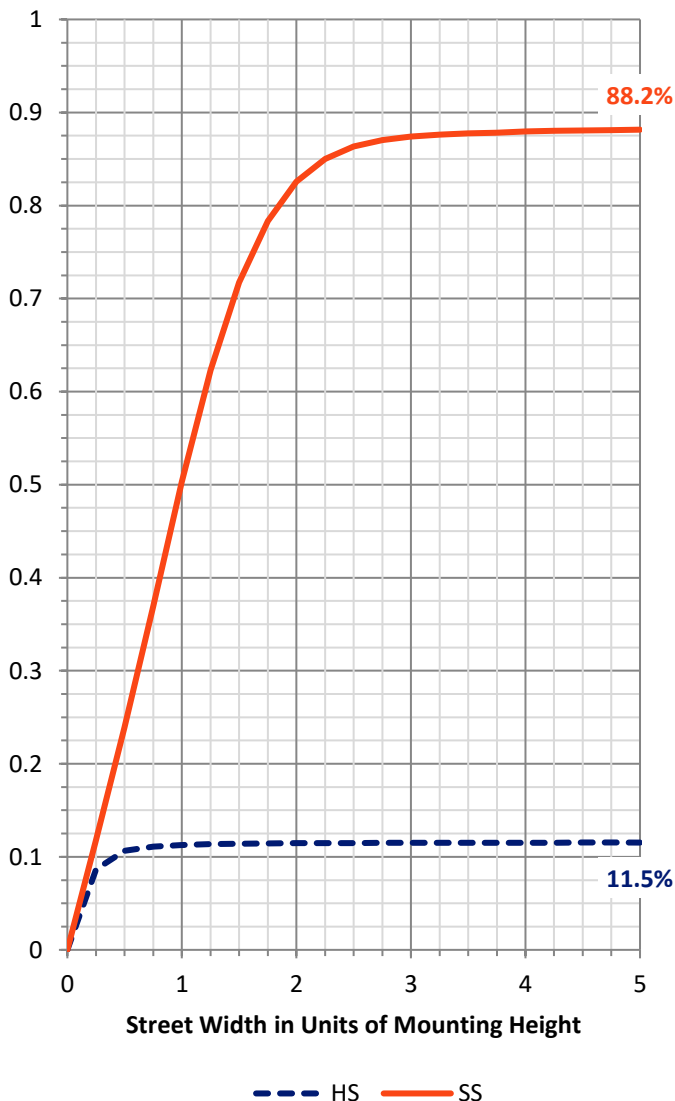
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1407.3	0.0	1407.3
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	10655.7	0.0	10655.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12063.0	0.0	12063.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	1.0
10°-20°	349.9	2.9
20°-30°	594.4	4.9
30°-40°	1052.8	8.7
40°-50°	1986.1	16.5
50°-60°	3360.3	27.9
60°-70°	3493.7	29.0
70°-80°	1047.7	8.7
80°-90°	54.9	0.5
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°	12063.0	100.0
0°-180°	12063.0	100.0

**Coefficient of Utilization**



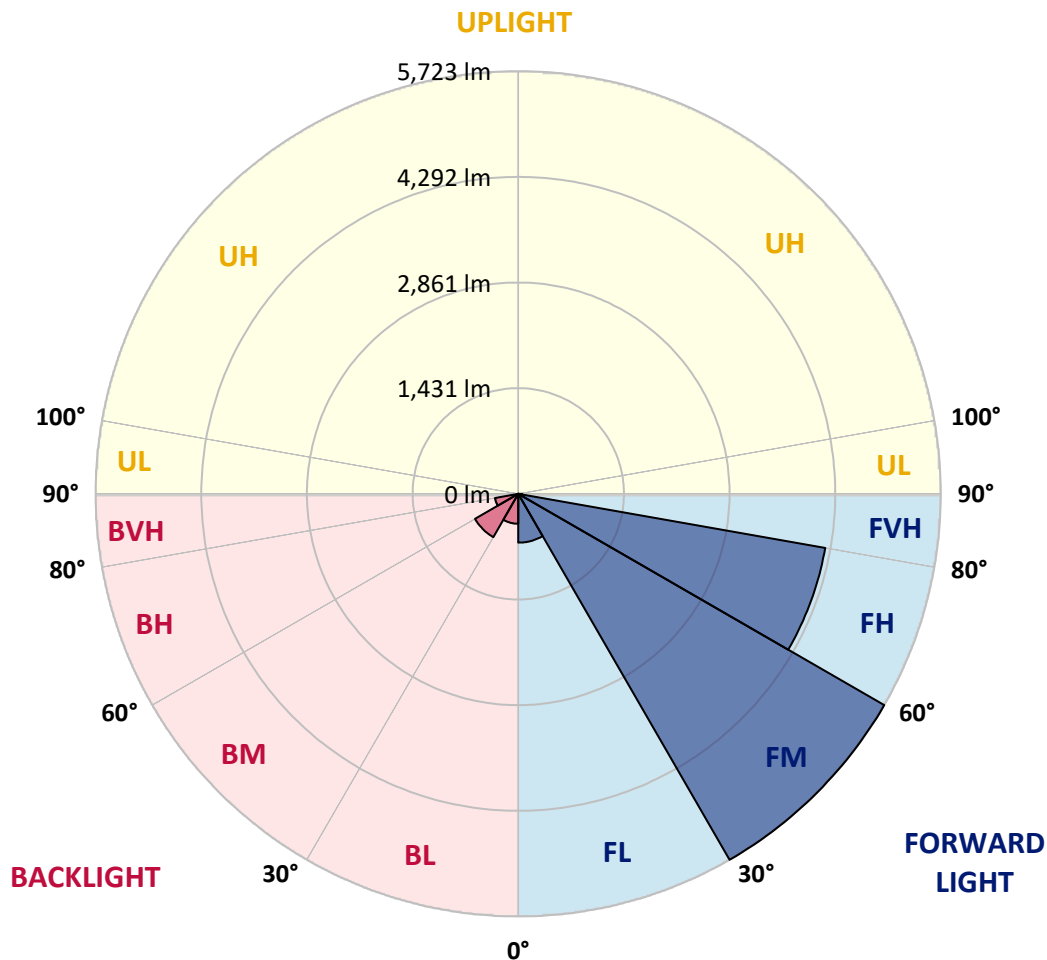
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.5	5.5			
FM (30°-60°)	5722.7	47.4			
FH (60°-80°)	4221.2	35.0			G2/5000
FVH (80°-90°)	50.3	0.4			G1/100
BL (0°-30°)	405.9	3.4	B1/500		
BM (30°-60°)	676.5	5.6	B1/1000		
BH (60°-80°)	320.2	2.7	B1/500		G1/500
BVH (80°-90°)	4.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1268.4	1264.0	1264.0	1272.8	1277.2	1281.6	1290.4	1290.4	1290.4	1299.1	1303.5
5°	1207.0	1207.0	1211.4	1220.1	1237.7	1250.9	1277.2	1277.2	1286.0	1307.9	1316.7
7.5°	1167.5	1167.5	1171.9	1189.4	1211.4	1242.1	1277.2	1277.2	1286.0	1299.1	1329.9
10°	1163.1	1158.7	1167.5	1185.0	1211.4	1250.9	1290.4	1290.4	1303.5	1329.9	1369.4
12.5°	1176.2	1171.9	1180.6	1198.2	1224.5	1264.0	1316.7	1316.7	1338.6	1369.4	1422.0
15°	1185.0	1180.6	1189.4	1211.4	1242.1	1290.4	1351.8	1351.8	1378.1	1417.6	1492.3
17.5°	1211.4	1207.0	1211.4	1228.9	1259.6	1312.3	1391.3	1391.3	1417.6	1483.5	1566.9
20°	1329.9	1325.5	1299.1	1290.4	1294.7	1343.0	1444.0	1444.0	1487.9	1566.9	1672.2
22.5°	1575.6	1558.1	1509.8	1430.8	1378.1	1395.7	1509.8	1509.8	1558.1	1663.4	1781.9
25°	1904.8	1891.7	1821.4	1685.4	1536.1	1492.3	1584.4	1584.4	1650.3	1777.5	1909.2
27.5°	2277.9	2251.5	2185.7	1997.0	1795.1	1650.3	1676.6	1676.6	1733.6	1874.1	2014.5
30°	2602.7	2593.9	2519.3	2361.3	2124.3	1909.2	1817.0	1817.0	1847.8	1975.0	2124.3
32.5°	2901.1	2874.8	2813.3	2664.1	2444.7	2225.2	2040.9	2040.9	2040.9	2146.2	2321.8
35°	3230.3	3212.7	3138.1	2988.9	2778.2	2519.3	2352.5	2352.5	2334.9	2422.7	2620.2
37.5°	3568.2	3524.4	3489.2	3335.6	3125.0	2901.1	2699.2	2699.2	2659.7	2703.6	2848.4
40°	3989.6	3989.6	3910.6	3770.1	3572.6	3335.6	3054.7	3054.7	2953.8	2940.6	3129.3
42.5°	4481.1	4468.0	4402.1	4270.5	4081.8	3862.3	3506.8	3506.8	3414.6	3405.8	3634.1
45°	5047.3	5038.5	4959.5	4849.8	4718.2	4476.8	4125.6	4125.6	4033.5	3980.8	4244.1
47.5°	5565.2	5534.5	5508.2	5521.3	5446.7	5174.6	4845.4	4845.4	4735.7	4731.3	4937.6
50°	5920.7	5903.2	5995.3	6083.1	6223.6	6052.4	5661.8	5661.8	5565.2	5490.6	5762.7
52.5°	6153.3	6144.6	6328.9	6579.1	6868.8	6855.6	6508.9	6508.9	6451.8	6390.4	6465.0
55°	6245.5	6245.5	6465.0	6925.8	7434.9	7654.4	7492.0	7492.0	7413.0	7197.9	7044.3
57.5°	6135.8	6122.6	6407.9	7009.2	7786.1	8238.1	8308.3	8308.3	8216.2	7878.2	7707.0
60°	5670.6	5679.3	6017.3	6776.6	7759.7	8475.1	8927.2	8927.2	8843.8	8505.8	8251.3
62.5°	4801.5	4876.2	5231.7	6056.8	7197.9	8286.4	9282.7	9282.7	9326.6	8962.3	8646.3
65°	3607.7	3673.6	4011.5	4924.4	6175.3	7654.4	9348.5	9348.5	9519.7	9225.6	8905.2
67.5°	2194.5	2216.4	2629.0	3318.1	4547.0	6377.2	8887.7	8887.7	9260.7	9050.1	8523.4
70°	1022.6	1079.7	1281.6	1812.6	2879.2	4696.2	7680.7	7680.7	8207.4	7970.4	7316.4
72.5°	399.4	417.0	544.2	838.3	1527.4	2953.8	5732.0	5732.0	6083.1	5920.7	5196.6
75°	197.5	210.7	263.3	399.4	697.8	1220.1	3502.4	3502.4	3730.6	3462.9	2611.4
77.5°	144.8	144.8	175.6	245.8	381.8	452.1	1474.7	1474.7	1654.6	1562.5	1009.5
80°	96.6	105.3	122.9	166.8	241.4	219.4	557.4	557.4	662.7	553.0	311.6
82.5°	57.1	61.4	92.2	118.5	162.4	127.3	188.7	188.7	210.7	228.2	153.6
85°	30.7	30.7	61.4	87.8	87.8	57.1	65.8	65.8	74.6	87.8	92.2
87.5°	8.8	8.8	39.5	52.7	35.1	30.7	35.1	35.1	35.1	39.5	48.3
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°	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5	1303.5
2.5°	1307.9	1307.9	1312.3	1312.3	1316.7	1316.7	1316.7	1316.7	1321.1	1325.5	1325.5
5°	1321.1	1325.5	1325.5	1325.5	1325.5	1316.7	1312.3	1307.9	1307.9	1312.3	1312.3
7.5°	1356.2	1360.6	1356.2	1347.4	1334.2	1316.7	1299.1	1299.1	1294.7	1299.1	1294.7
10°	1408.9	1408.9	1404.5	1382.5	1360.6	1325.5	1290.4	1264.0	1246.5	1242.1	1233.3
12.5°	1474.7	1474.7	1461.5	1422.0	1382.5	1316.7	1224.5	1136.7	1066.5	1035.8	1027.0
15°	1540.5	1540.5	1523.0	1465.9	1386.9	1228.9	1035.8	851.5	746.1	702.2	675.9
17.5°	1619.5	1610.8	1580.0	1501.0	1338.6	1053.4	741.7	553.0	469.6	430.1	430.1
20°	1702.9	1694.1	1637.1	1505.4	1215.7	754.9	482.8	381.8	359.9	351.1	351.1
22.5°	1795.1	1773.1	1685.4	1470.3	956.8	513.5	364.3	338.0	329.2	324.8	324.8
25°	1869.7	1834.6	1720.5	1373.8	684.7	359.9	320.4	311.6	294.1	289.7	280.9
27.5°	1926.8	1874.1	1733.6	1167.5	452.1	298.5	285.3	267.7	250.2	232.6	232.6
30°	2001.4	1935.5	1742.4	908.5	307.2	258.9	245.8	223.8	201.9	184.3	184.3
32.5°	2150.6	2054.0	1746.8	636.4	254.6	228.2	201.9	175.6	153.6	144.8	140.4
35°	2313.0	2181.3	1698.5	412.6	223.8	193.1	162.4	140.4	118.5	114.1	114.1
37.5°	2492.9	2370.0	1593.2	280.9	197.5	162.4	131.7	109.7	96.6	92.2	92.2
40°	2795.8	2650.9	1417.6	223.8	171.2	136.1	109.7	92.2	83.4	79.0	79.0
42.5°	3230.3	2980.1	1198.2	193.1	149.2	114.1	87.8	74.6	70.2	65.8	65.8
45°	3730.6	3348.8	943.6	175.6	131.7	96.6	74.6	65.8	61.4	57.1	57.1
47.5°	4305.6	3730.6	746.1	153.6	114.1	83.4	65.8	57.1	52.7	48.3	48.3
50°	4849.8	4029.1	561.8	136.1	100.9	70.2	57.1	52.7	48.3	43.9	43.9
52.5°	5297.5	4231.0	425.7	118.5	87.8	61.4	52.7	48.3	39.5	39.5	39.5
55°	5837.3	4389.0	324.8	105.3	79.0	57.1	48.3	39.5	35.1	30.7	30.7
57.5°	6307.0	4446.0	237.0	92.2	70.2	52.7	43.9	35.1	26.3	21.9	21.9
60°	6623.0	4397.8	171.2	79.0	61.4	43.9	35.1	26.3	17.6	13.2	13.2
62.5°	6846.8	4292.4	131.7	70.2	52.7	39.5	30.7	21.9	13.2	8.8	8.8
65°	6623.0	3967.6	105.3	61.4	43.9	35.1	21.9	17.6	8.8	4.4	4.4
67.5°	5727.6	3326.8	83.4	52.7	39.5	30.7	21.9	13.2	4.4	0.0	0.0
70°	4116.9	2374.4	70.2	48.3	35.1	26.3	17.6	8.8	4.4	0.0	0.0
72.5°	2295.4	1224.5	65.8	43.9	35.1	26.3	17.6	8.8	4.4	0.0	0.0
75°	930.5	421.3	61.4	43.9	35.1	21.9	17.6	8.8	4.4	0.0	0.0
77.5°	272.1	144.8	52.7	39.5	35.1	26.3	17.6	8.8	4.4	0.0	0.0
80°	96.6	65.8	39.5	35.1	26.3	21.9	17.6	13.2	4.4	0.0	0.0
82.5°	43.9	26.3	17.6	13.2	13.2	13.2	13.2	8.8	4.4	0.0	0.0
85°	17.6	13.2	8.8	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0
87.5°	13.2	8.8	4.4	4.4	4.4	4.4	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)