

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: P572810

Luminaire Tested: **ARCH-S-PA2-120-727-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572810
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-PA2-120-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9728 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

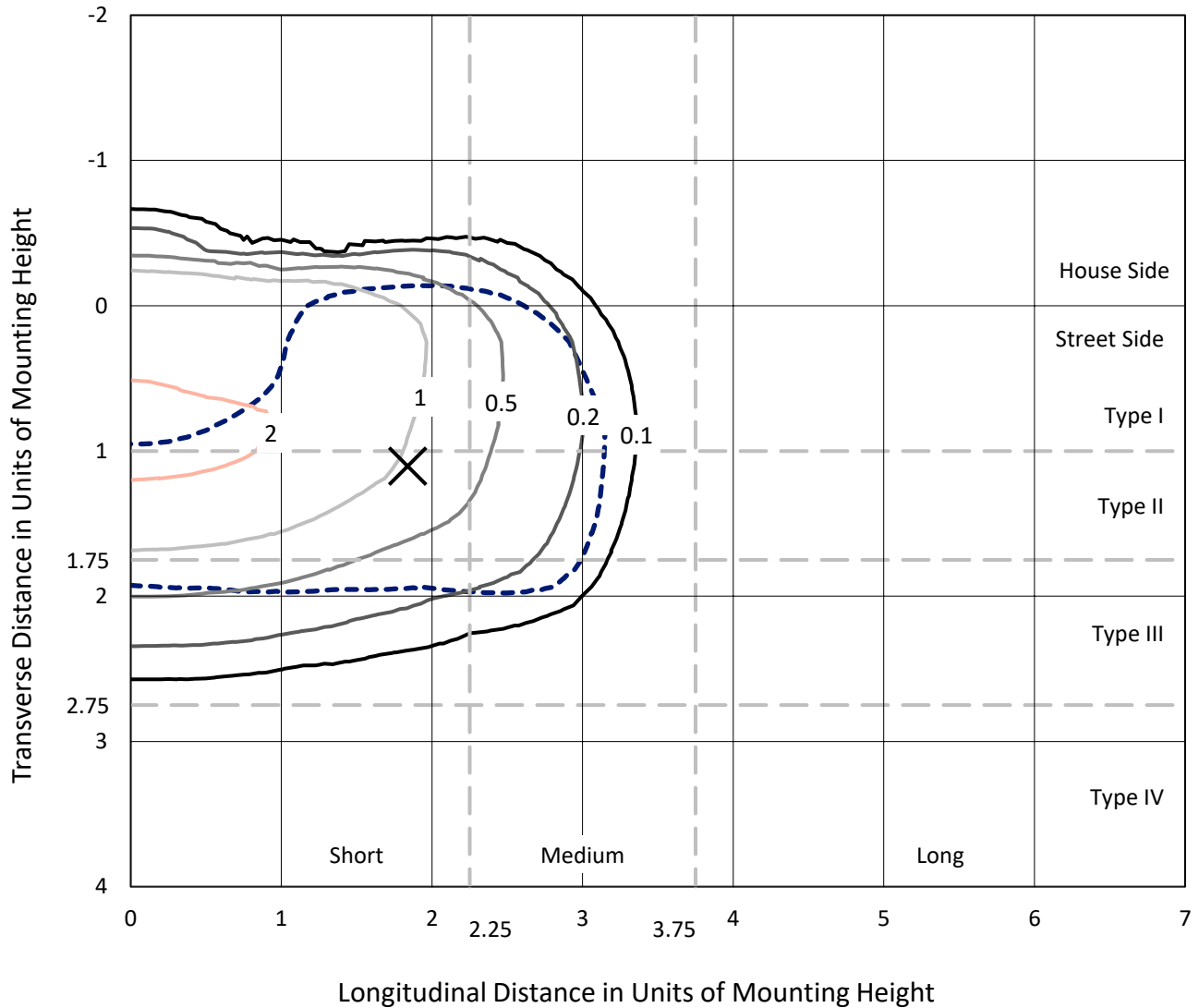
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572810
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

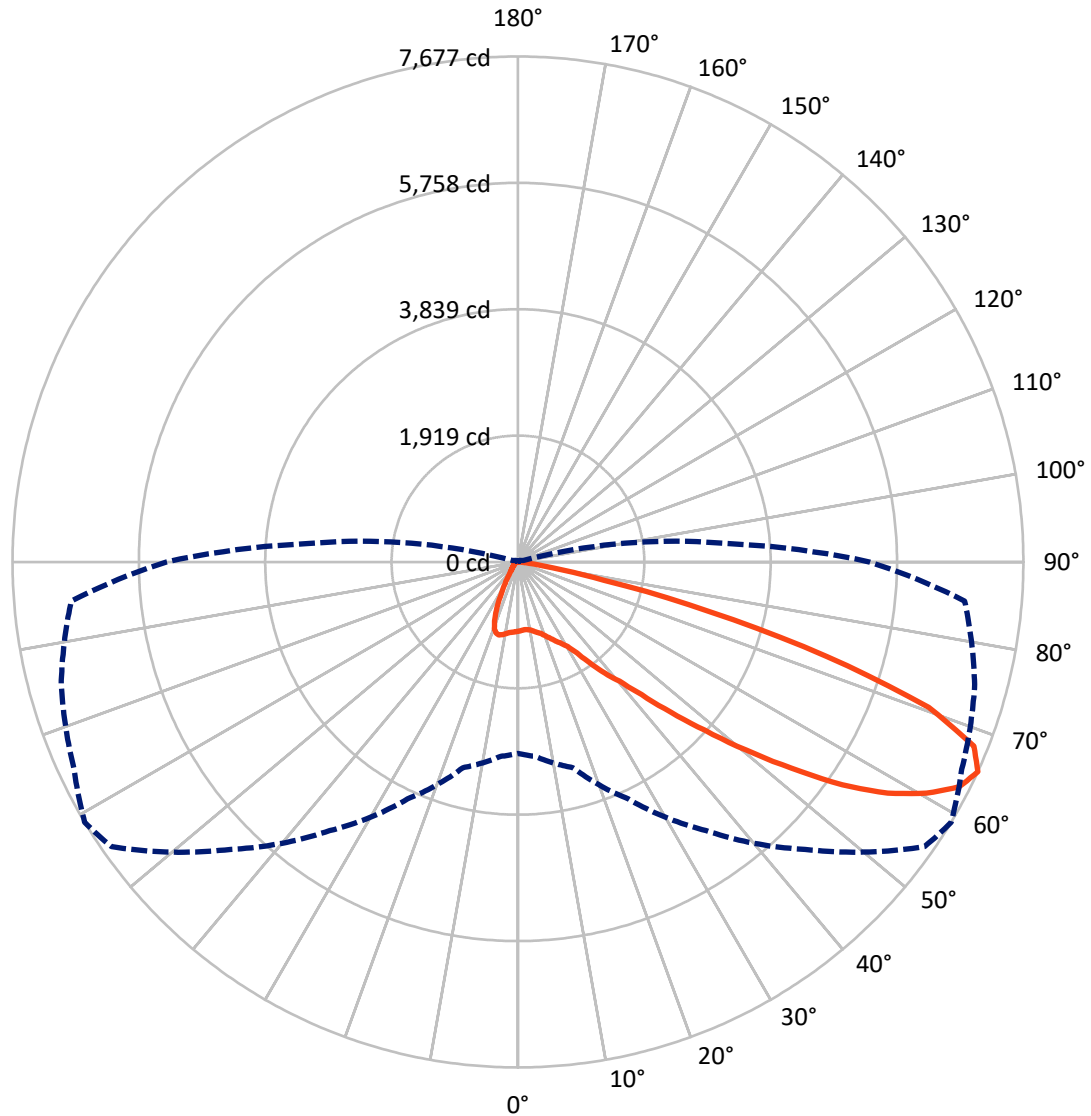
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

REPORT NUMBER: P572810
CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572810
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

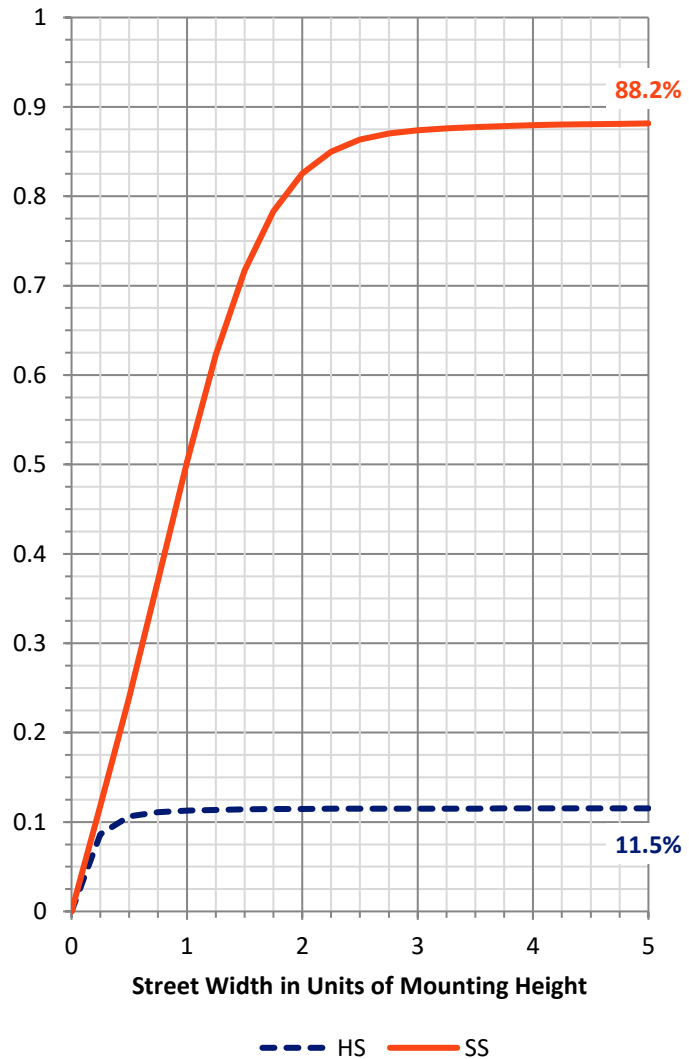
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1134.9	0.0	1134.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8593.1	0.0	8593.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	9728.0	0.0	9728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.0
10°-20°	282.2	2.9
20°-30°	479.3	4.9
30°-40°	849.0	8.7
40°-50°	1601.6	16.5
50°-60°	2709.9	27.9
60°-70°	2817.4	29.0
70°-80°	844.9	8.7
80°-90°	44.3	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°	9728.0	100.0
0°-180°	9728.0	100.0

Coefficient of Utilization

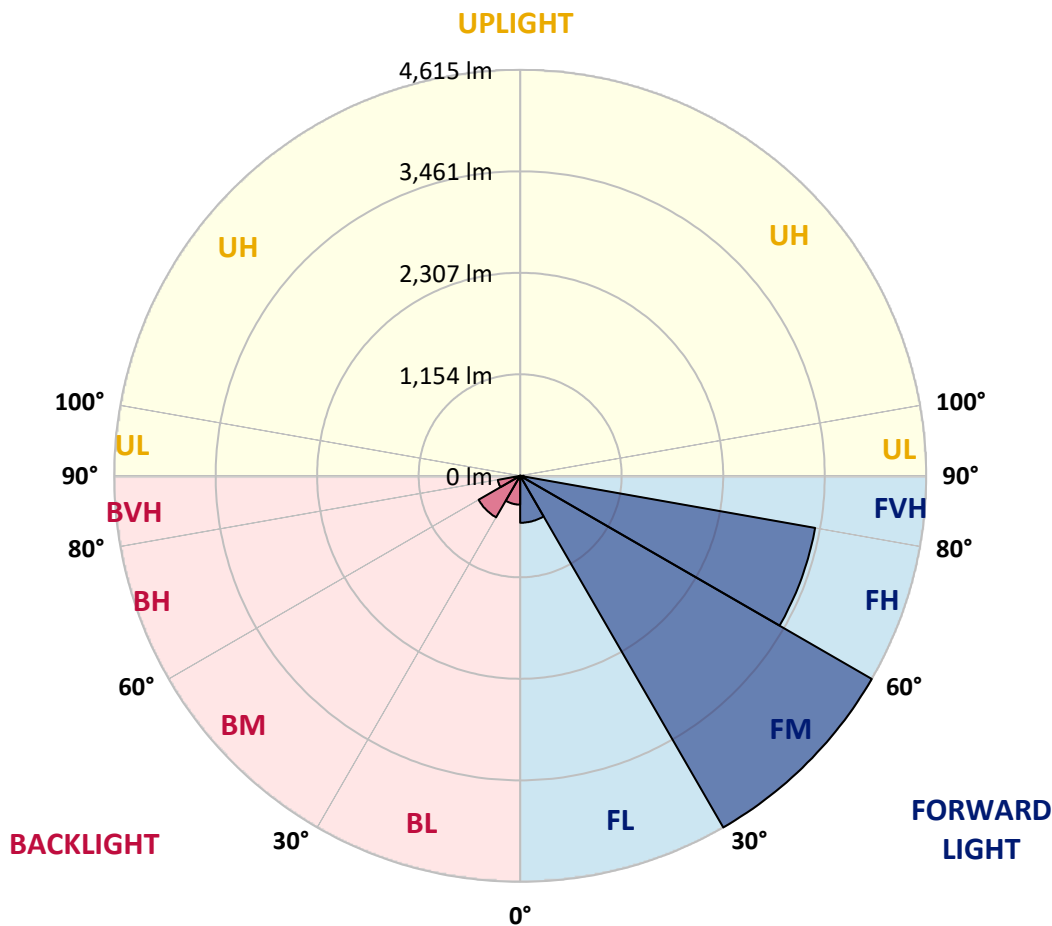


REPORT NUMBER: P572810
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.5	5.5			
FM (30°-60°)	4615.0	47.4			
FH (60°-80°)	3404.1	35.0			G2/5000
FVH (80°-90°)	40.6	0.4			G1/100
BL (0°-30°)	327.4	3.4	B1/500		
BM (30°-60°)	545.6	5.6	B1/1000		
BH (60°-80°)	258.2	2.7	B1/500		G1/500
BVH (80°-90°)	3.7	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





REPORT NUMBER: P572810

CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1022.9	1019.4	1019.4	1026.4	1030.0	1033.5	1040.6	1040.6	1040.6	1047.7	1051.2
5°	973.3	973.3	976.9	984.0	998.1	1008.7	1030.0	1033.5	1037.0	1054.7	1061.8
7.5°	941.5	941.5	945.0	959.2	976.9	1001.7	1030.0	1037.0	1047.7	1072.4	1090.1
10°	937.9	934.4	941.5	955.6	976.9	1008.7	1040.6	1051.2	1072.4	1104.3	1129.1
12.5°	948.6	945.0	952.1	966.3	987.5	1019.4	1061.8	1079.5	1104.3	1146.8	1182.2
15°	955.6	952.1	959.2	976.9	1001.7	1040.6	1090.1	1111.4	1143.2	1203.4	1238.8
17.5°	976.9	973.3	976.9	991.0	1015.8	1058.3	1122.0	1143.2	1196.3	1263.6	1302.5
20°	1072.4	1068.9	1047.7	1040.6	1044.1	1083.1	1164.5	1199.9	1263.6	1348.5	1376.8
22.5°	1270.7	1256.5	1217.6	1153.9	1111.4	1125.5	1217.6	1256.5	1341.4	1437.0	1458.2
25°	1536.1	1525.5	1468.9	1359.1	1238.8	1203.4	1277.7	1330.8	1433.5	1539.6	1532.6
27.5°	1837.0	1815.7	1762.6	1610.4	1447.6	1330.8	1352.1	1398.1	1511.3	1624.6	1589.2
30°	2098.9	2091.8	2031.6	1904.2	1713.1	1539.6	1465.3	1490.1	1592.7	1713.1	1670.6
32.5°	2339.6	2318.3	2268.8	2148.4	1971.5	1794.5	1645.8	1645.8	1730.8	1872.4	1808.6
35°	2605.0	2590.9	2530.7	2410.3	2240.5	2031.6	1897.1	1883.0	1953.8	2113.0	1975.0
37.5°	2877.5	2842.2	2813.8	2690.0	2520.1	2339.6	2176.7	2144.9	2180.3	2297.1	2127.2
40°	3217.3	3217.3	3153.6	3040.4	2881.1	2690.0	2463.4	2382.0	2371.4	2523.6	2392.6
42.5°	3613.7	3603.1	3550.0	3443.9	3291.7	3114.7	2828.0	2753.7	2746.6	2930.6	2774.9
45°	4070.3	4063.3	3999.5	3911.1	3804.9	3610.2	3327.1	3252.7	3210.3	3422.6	3238.6
47.5°	4488.0	4463.2	4442.0	4452.6	4392.4	4173.0	3907.5	3819.0	3815.5	3981.8	3744.7
50°	4774.7	4760.5	4834.8	4905.6	5018.9	4880.9	4565.8	4488.0	4427.8	4647.3	4272.1
52.5°	4962.3	4955.2	5103.8	5305.6	5539.2	5528.6	5249.0	5202.9	5153.4	5213.6	4742.8
55°	5036.6	5036.6	5213.6	5585.2	5995.8	6172.7	6041.8	5978.1	5804.6	5680.8	5259.6
57.5°	4948.1	4937.5	5167.5	5652.5	6278.9	6643.5	6700.1	6625.8	6353.3	6215.2	5833.0
60°	4572.9	4580.0	4852.5	5464.9	6257.7	6834.6	7199.2	7131.9	6859.4	6654.1	6314.3
62.5°	3872.1	3932.3	4219.0	4884.4	5804.6	6682.4	7485.9	7521.3	7227.5	6972.7	6742.6
65°	2909.4	2962.5	3235.0	3971.2	4980.0	6172.7	7539.0	7677.0	7439.9	7181.5	6809.8
67.5°	1769.7	1787.4	2120.1	2675.8	3666.8	5142.8	7167.3	7468.2	7298.3	6873.5	6144.4
70°	824.7	870.7	1033.5	1461.8	2321.9	3787.2	6194.0	6618.7	6427.6	5900.2	4672.0
72.5°	322.1	336.2	438.9	676.0	1231.7	2382.0	4622.5	4905.6	4774.7	4190.7	2785.5
75°	159.3	169.9	212.4	322.1	562.8	984.0	2824.5	3008.5	2792.6	2106.0	1178.6
77.5°	116.8	116.8	141.6	198.2	307.9	364.6	1189.2	1334.4	1260.0	814.1	322.1
80°	77.9	84.9	99.1	134.5	194.7	177.0	449.5	534.5	446.0	251.3	113.3
82.5°	46.0	49.6	74.3	95.6	131.0	102.6	152.2	169.9	184.0	123.9	53.1
85°	24.8	24.8	49.6	70.8	70.8	46.0	53.1	60.2	70.8	74.3	28.3
87.5°	7.1	7.1	31.9	42.5	28.3	24.8	28.3	28.3	31.9	38.9	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P572810

CATALOG NUMBER: ARCH-S-PA2-120-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1054.7	1054.7	1058.3	1058.3	1061.8	1061.8	1061.8	1061.8	1065.4	1068.9	1068.9
5°	1065.4	1068.9	1068.9	1068.9	1068.9	1061.8	1058.3	1054.7	1054.7	1058.3	1058.3
7.5°	1093.7	1097.2	1093.7	1086.6	1076.0	1061.8	1047.7	1047.7	1044.1	1047.7	1044.1
10°	1136.2	1136.2	1132.6	1114.9	1097.2	1068.9	1040.6	1019.4	1005.2	1001.7	994.6
12.5°	1189.2	1189.2	1178.6	1146.8	1114.9	1061.8	987.5	916.7	860.1	835.3	828.2
15°	1242.3	1242.3	1228.2	1182.2	1118.5	991.0	835.3	686.6	601.7	566.3	545.1
17.5°	1306.0	1299.0	1274.2	1210.5	1079.5	849.5	598.2	446.0	378.7	346.9	346.9
20°	1373.3	1366.2	1320.2	1214.0	980.4	608.8	389.3	307.9	290.2	283.2	283.2
22.5°	1447.6	1429.9	1359.1	1185.7	771.6	414.1	293.8	272.5	265.5	261.9	261.9
25°	1507.8	1479.5	1387.5	1107.8	552.1	290.2	258.4	251.3	237.1	233.6	226.5
27.5°	1553.8	1511.3	1398.1	941.5	364.6	240.7	230.1	215.9	201.7	187.6	187.6
30°	1614.0	1560.9	1405.1	732.7	247.8	208.8	198.2	180.5	162.8	148.7	148.7
32.5°	1734.3	1656.4	1408.7	513.2	205.3	184.0	162.8	141.6	123.9	116.8	113.3
35°	1865.3	1759.1	1369.8	332.7	180.5	155.7	131.0	113.3	95.6	92.0	92.0
37.5°	2010.4	1911.3	1284.8	226.5	159.3	131.0	106.2	88.5	77.9	74.3	74.3
40°	2254.6	2137.8	1143.2	180.5	138.0	109.7	88.5	74.3	67.2	63.7	63.7
42.5°	2605.0	2403.3	966.3	155.7	120.3	92.0	70.8	60.2	56.6	53.1	53.1
45°	3008.5	2700.6	761.0	141.6	106.2	77.9	60.2	53.1	49.6	46.0	46.0
47.5°	3472.2	3008.5	601.7	123.9	92.0	67.2	53.1	46.0	42.5	38.9	38.9
50°	3911.1	3249.2	453.0	109.7	81.4	56.6	46.0	42.5	38.9	35.4	35.4
52.5°	4272.1	3412.0	343.3	95.6	70.8	49.6	42.5	38.9	31.9	31.9	31.9
55°	4707.4	3539.4	261.9	84.9	63.7	46.0	38.9	31.9	28.3	24.8	24.8
57.5°	5086.1	3585.4	191.1	74.3	56.6	42.5	35.4	28.3	21.2	17.7	17.7
60°	5341.0	3546.5	138.0	63.7	49.6	35.4	28.3	21.2	14.2	10.6	10.6
62.5°	5521.5	3461.6	106.2	56.6	42.5	31.9	24.8	17.7	10.6	7.1	7.1
65°	5341.0	3199.6	84.9	49.6	35.4	28.3	17.7	14.2	7.1	3.5	3.5
67.5°	4618.9	2682.9	67.2	42.5	31.9	24.8	17.7	10.6	3.5	0.0	0.0
70°	3320.0	1914.8	56.6	38.9	28.3	21.2	14.2	7.1	3.5	0.0	0.0
72.5°	1851.1	987.5	53.1	35.4	28.3	21.2	14.2	7.1	3.5	0.0	0.0
75°	750.4	339.8	49.6	35.4	28.3	17.7	14.2	7.1	3.5	0.0	0.0
77.5°	219.4	116.8	42.5	31.9	28.3	21.2	14.2	7.1	3.5	0.0	0.0
80°	77.9	53.1	31.9	28.3	21.2	17.7	14.2	10.6	3.5	0.0	0.0
82.5°	35.4	21.2	14.2	10.6	10.6	10.6	10.6	7.1	3.5	0.0	0.0
85°	14.2	10.6	7.1	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0
87.5°	10.6	7.1	3.5	3.5	3.5	3.5	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)