

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: P572819

Luminaire Tested: **ARCH-S-PA2-120-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572819
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-PA2-120-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 10594 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

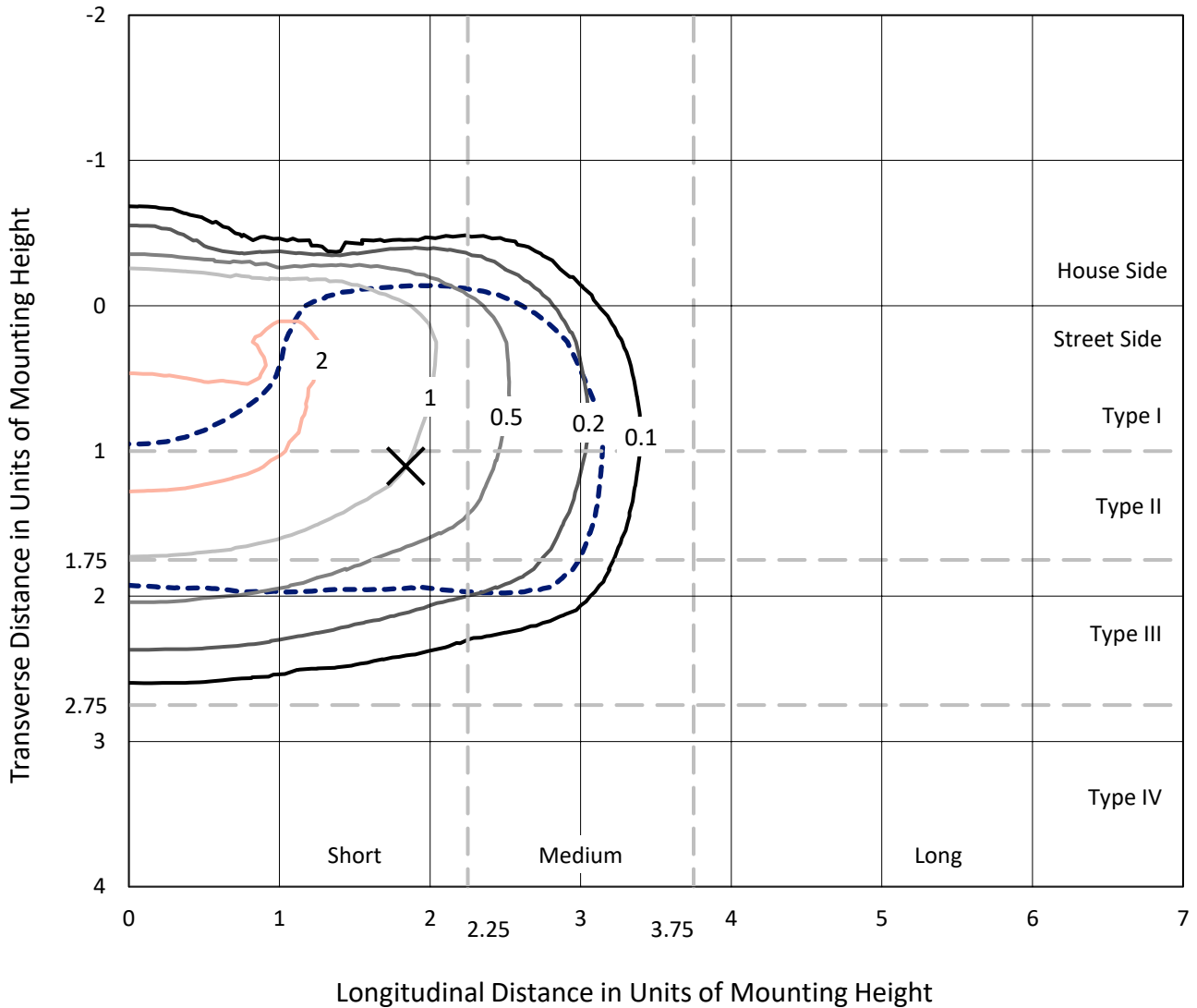
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572819
 CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

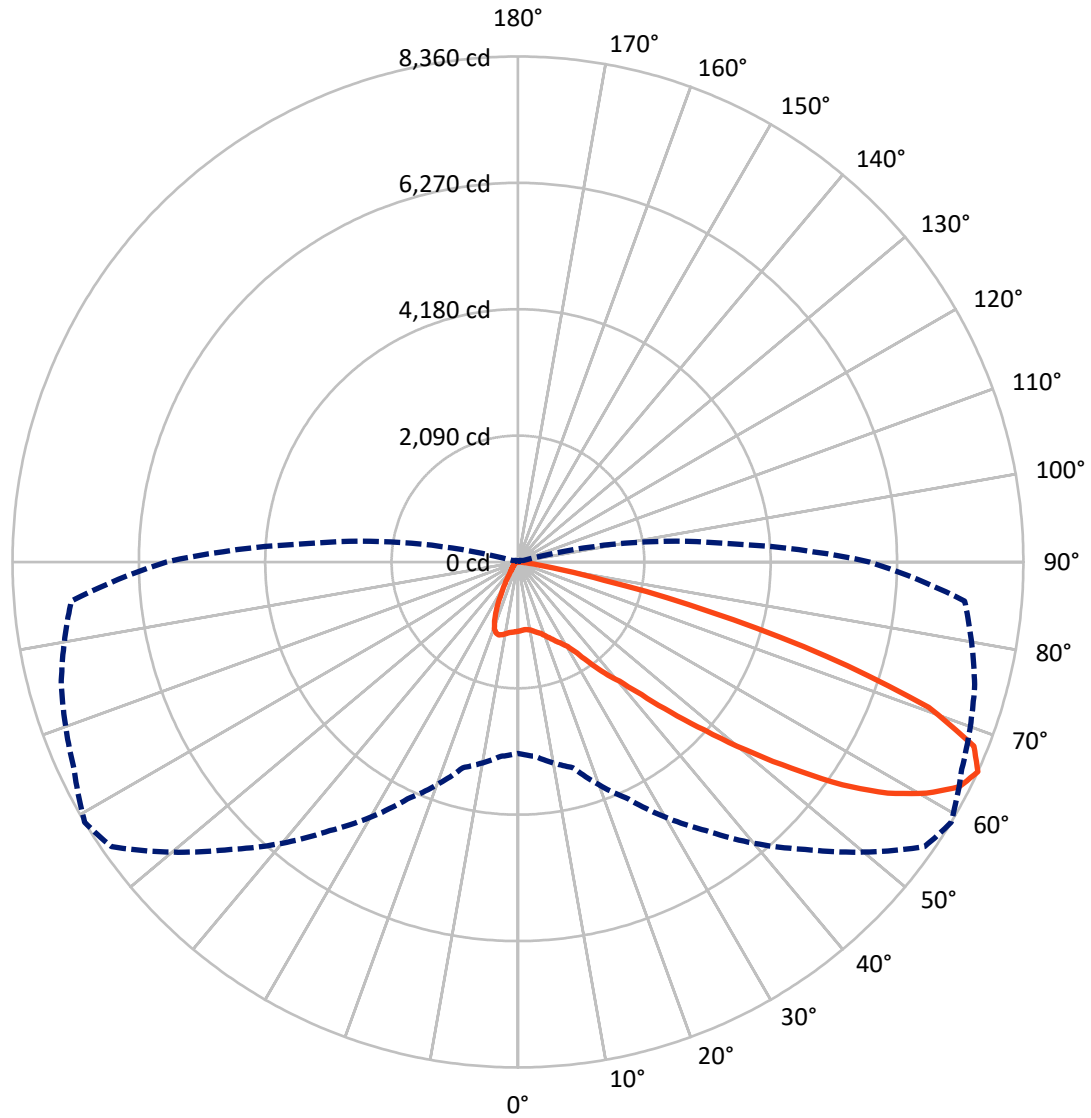
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

REPORT NUMBER: P572819
CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572819
 CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

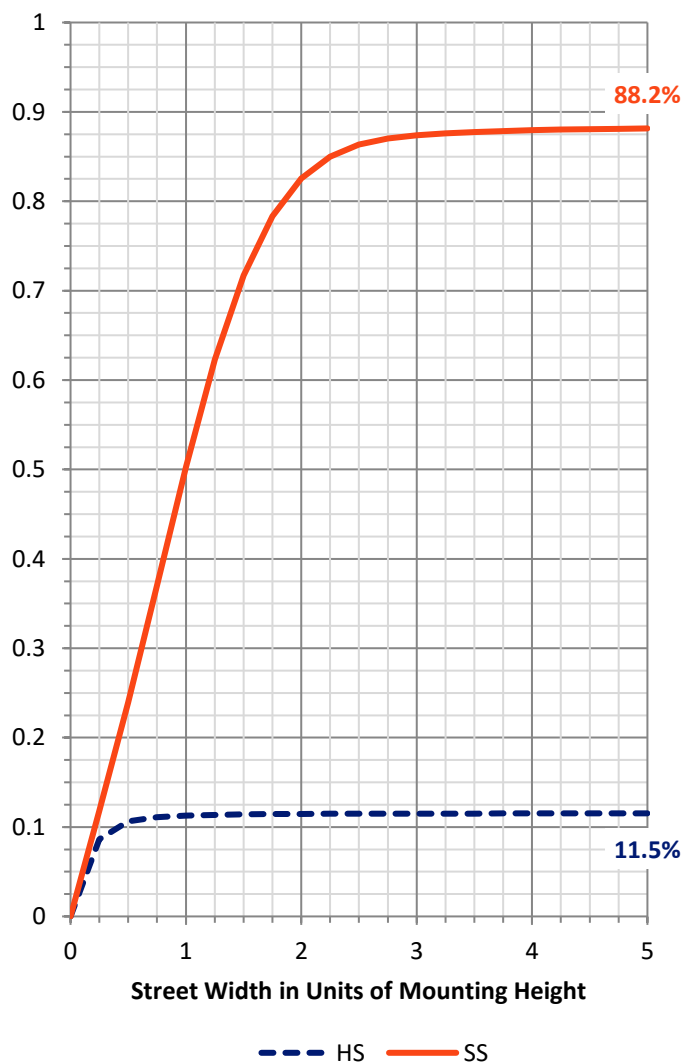
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1235.9	0.0	1235.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9358.1	0.0	9358.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	10594.0	0.0	10594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	1.0
10°-20°	307.3	2.9
20°-30°	522.0	4.9
30°-40°	924.6	8.7
40°-50°	1744.2	16.5
50°-60°	2951.1	27.9
60°-70°	3068.2	29.0
70°-80°	920.1	8.7
80°-90°	48.3	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°	10594.0	100.0
0°-180°	10594.0	100.0

Coefficient of Utilization

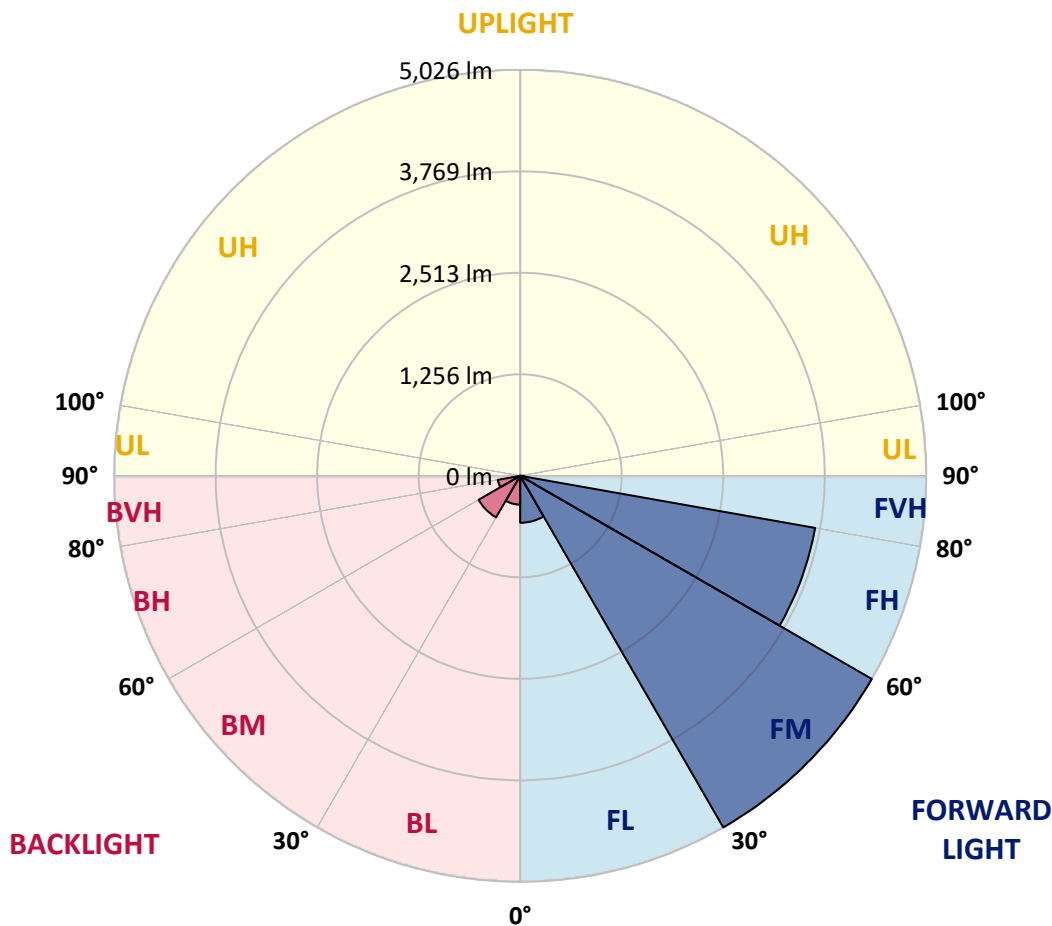


REPORT NUMBER: P572819
 CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.0	5.5			
FM (30°-60°)	5025.8	47.4			
FH (60°-80°)	3707.1	35.0			G2/5000
FVH (80°-90°)	44.2	0.4			G1/100
BL (0°-30°)	356.5	3.4	B1/500		
BM (30°-60°)	594.1	5.6	B1/1000		
BH (60°-80°)	281.2	2.7	B1/500		G1/500
BVH (80°-90°)	4.1	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 III Short





REPORT NUMBER: P572819

CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8
2.5°	1114.0	1110.1	1110.1	1117.8	1121.7	1125.5	1133.2	1133.2	1133.2	1140.9	1144.8
5°	1060.0	1060.0	1063.8	1071.6	1087.0	1098.5	1121.7	1125.5	1129.4	1148.6	1156.4
7.5°	1025.3	1025.3	1029.2	1044.6	1063.8	1090.8	1121.7	1129.4	1140.9	1167.9	1187.2
10°	1021.4	1017.6	1025.3	1040.7	1063.8	1098.5	1133.2	1144.8	1167.9	1202.6	1229.6
12.5°	1033.0	1029.2	1036.9	1052.3	1075.4	1110.1	1156.4	1175.6	1202.6	1248.9	1287.4
15°	1040.7	1036.9	1044.6	1063.8	1090.8	1133.2	1187.2	1210.3	1245.0	1310.5	1349.1
17.5°	1063.8	1060.0	1063.8	1079.3	1106.2	1152.5	1221.9	1245.0	1302.8	1376.1	1418.5
20°	1167.9	1164.1	1140.9	1133.2	1137.1	1179.5	1268.1	1306.7	1376.1	1468.6	1499.4
22.5°	1383.8	1368.3	1325.9	1256.6	1210.3	1225.7	1325.9	1368.3	1460.9	1564.9	1588.1
25°	1672.9	1661.3	1599.6	1480.1	1349.1	1310.5	1391.5	1449.3	1561.1	1676.7	1669.0
27.5°	2000.5	1977.4	1919.5	1753.8	1576.5	1449.3	1472.4	1522.5	1645.9	1769.2	1730.7
30°	2285.7	2278.0	2212.5	2073.7	1865.6	1676.7	1595.8	1622.7	1734.5	1865.6	1819.3
32.5°	2547.8	2524.7	2470.7	2339.7	2147.0	1954.2	1792.3	1792.3	1884.9	2039.0	1969.7
35°	2836.9	2821.5	2756.0	2624.9	2439.9	2212.5	2066.0	2050.6	2127.7	2301.1	2150.8
37.5°	3133.7	3095.2	3064.3	2929.4	2744.4	2547.8	2370.5	2335.8	2374.4	2501.6	2316.6
40°	3503.7	3503.7	3434.4	3311.0	3137.6	2929.4	2682.7	2594.1	2582.5	2748.3	2605.6
42.5°	3935.4	3923.9	3866.1	3750.4	3584.7	3392.0	3079.7	2998.8	2991.1	3191.5	3021.9
45°	4432.7	4425.0	4355.6	4259.2	4143.6	3931.6	3623.2	3542.3	3496.0	3727.3	3526.9
47.5°	4887.5	4860.5	4837.4	4849.0	4783.4	4544.5	4255.4	4159.0	4155.2	4336.3	4078.1
50°	5199.7	5184.3	5265.2	5342.3	5465.7	5315.4	4972.3	4887.5	4822.0	5061.0	4652.4
52.5°	5404.0	5396.3	5558.2	5777.9	6032.3	6020.7	5716.2	5666.1	5612.2	5677.7	5165.0
55°	5485.0	5485.0	5677.7	6082.4	6529.5	6722.3	6579.6	6510.3	6321.4	6186.5	5727.8
57.5°	5388.6	5377.0	5627.6	6155.6	6837.9	7234.9	7296.6	7215.6	6918.8	6768.5	6352.2
60°	4980.0	4987.7	5284.5	5951.4	6814.8	7443.0	7840.1	7766.8	7470.0	7246.5	6876.4
62.5°	4216.8	4282.4	4594.6	5319.2	6321.4	7277.3	8152.3	8190.8	7870.9	7593.4	7342.8
65°	3168.4	3226.2	3523.0	4324.8	5423.3	6722.3	8210.1	8360.4	8102.2	7820.8	7416.1
67.5°	1927.3	1946.5	2308.8	2914.0	3993.3	5600.6	7805.4	8133.0	7948.0	7485.4	6691.4
70°	898.1	948.2	1125.5	1591.9	2528.6	4124.3	6745.4	7207.9	6999.8	6425.5	5087.9
72.5°	350.8	366.2	478.0	736.2	1341.4	2594.1	5034.0	5342.3	5199.7	4563.7	3033.5
75°	173.5	185.0	231.3	350.8	612.9	1071.6	3075.9	3276.3	3041.2	2293.4	1283.5
77.5°	127.2	127.2	154.2	215.9	335.3	397.0	1295.1	1453.1	1372.2	886.5	350.8
80°	84.8	92.5	107.9	146.5	212.0	192.7	489.5	582.0	485.7	273.7	123.3
82.5°	50.1	54.0	80.9	104.1	142.6	111.8	165.7	185.0	200.4	134.9	57.8
85°	27.0	27.0	54.0	77.1	77.1	50.1	57.8	65.5	77.1	80.9	30.8
87.5°	7.7	7.7	34.7	46.3	30.8	27.0	30.8	30.8	34.7	42.4	15.4
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: P572819

CATALOG NUMBER: ARCH-S-PA2-120-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8	1144.8
2.5°	1148.6	1148.6	1152.5	1152.5	1156.4	1156.4	1156.4	1156.4	1160.2	1164.1	1164.1
5°	1160.2	1164.1	1164.1	1164.1	1164.1	1156.4	1152.5	1148.6	1148.6	1152.5	1152.5
7.5°	1191.0	1194.9	1191.0	1183.3	1171.8	1156.4	1140.9	1140.9	1137.1	1140.9	1137.1
10°	1237.3	1237.3	1233.4	1214.2	1194.9	1164.1	1133.2	1110.1	1094.7	1090.8	1083.1
12.5°	1295.1	1295.1	1283.5	1248.9	1214.2	1156.4	1075.4	998.3	936.6	909.7	902.0
15°	1352.9	1352.9	1337.5	1287.4	1218.0	1079.3	909.7	747.8	655.3	616.7	593.6
17.5°	1422.3	1414.6	1387.6	1318.2	1175.6	925.1	651.4	485.7	412.4	377.7	377.7
20°	1495.5	1487.8	1437.7	1322.1	1067.7	663.0	424.0	335.3	316.1	308.4	308.4
22.5°	1576.5	1557.2	1480.1	1291.3	840.3	451.0	319.9	296.8	289.1	285.2	285.2
25°	1642.0	1611.2	1511.0	1206.5	601.3	316.1	281.4	273.7	258.3	254.4	246.7
27.5°	1692.1	1645.9	1522.5	1025.3	397.0	262.1	250.5	235.1	219.7	204.3	204.3
30°	1757.7	1699.8	1530.2	797.9	269.8	227.4	215.9	196.6	177.3	161.9	161.9
32.5°	1888.7	1803.9	1534.1	558.9	223.6	200.4	177.3	154.2	134.9	127.2	123.3
35°	2031.3	1915.7	1491.7	362.3	196.6	169.6	142.6	123.3	104.1	100.2	100.2
37.5°	2189.4	2081.4	1399.2	246.7	173.5	142.6	115.6	96.4	84.8	80.9	80.9
40°	2455.3	2328.1	1245.0	196.6	150.3	119.5	96.4	80.9	73.2	69.4	69.4
42.5°	2836.9	2617.2	1052.3	169.6	131.1	100.2	77.1	65.5	61.7	57.8	57.8
45°	3276.3	2941.0	828.7	154.2	115.6	84.8	65.5	57.8	54.0	50.1	50.1
47.5°	3781.3	3276.3	655.3	134.9	100.2	73.2	57.8	50.1	46.3	42.4	42.4
50°	4259.2	3538.4	493.4	119.5	88.7	61.7	50.1	46.3	42.4	38.5	38.5
52.5°	4652.4	3715.7	373.9	104.1	77.1	54.0	46.3	42.4	34.7	34.7	34.7
55°	5126.5	3854.5	285.2	92.5	69.4	50.1	42.4	34.7	30.8	27.0	27.0
57.5°	5538.9	3904.6	208.1	80.9	61.7	46.3	38.5	30.8	23.1	19.3	19.3
60°	5816.4	3862.2	150.3	69.4	54.0	38.5	30.8	23.1	15.4	11.6	11.6
62.5°	6013.0	3769.7	115.6	61.7	46.3	34.7	27.0	19.3	11.6	7.7	7.7
65°	5816.4	3484.5	92.5	54.0	38.5	30.8	19.3	15.4	7.7	3.9	3.9
67.5°	5030.1	2921.7	73.2	46.3	34.7	27.0	19.3	11.6	3.9	0.0	0.0
70°	3615.5	2085.3	61.7	42.4	30.8	23.1	15.4	7.7	3.9	0.0	0.0
72.5°	2015.9	1075.4	57.8	38.5	30.8	23.1	15.4	7.7	3.9	0.0	0.0
75°	817.2	370.0	54.0	38.5	30.8	19.3	15.4	7.7	3.9	0.0	0.0
77.5°	239.0	127.2	46.3	34.7	30.8	23.1	15.4	7.7	3.9	0.0	0.0
80°	84.8	57.8	34.7	30.8	23.1	19.3	15.4	11.6	3.9	0.0	0.0
82.5°	38.5	23.1	15.4	11.6	11.6	11.6	11.6	7.7	3.9	0.0	0.0
85°	15.4	11.6	7.7	3.9	3.9	3.9	3.9	3.9	3.9	0.0	0.0
87.5°	11.6	7.7	3.9	3.9	3.9	3.9	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)