

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: P573550

Luminaire Tested: **ARCH-S-PA2-90-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8570 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

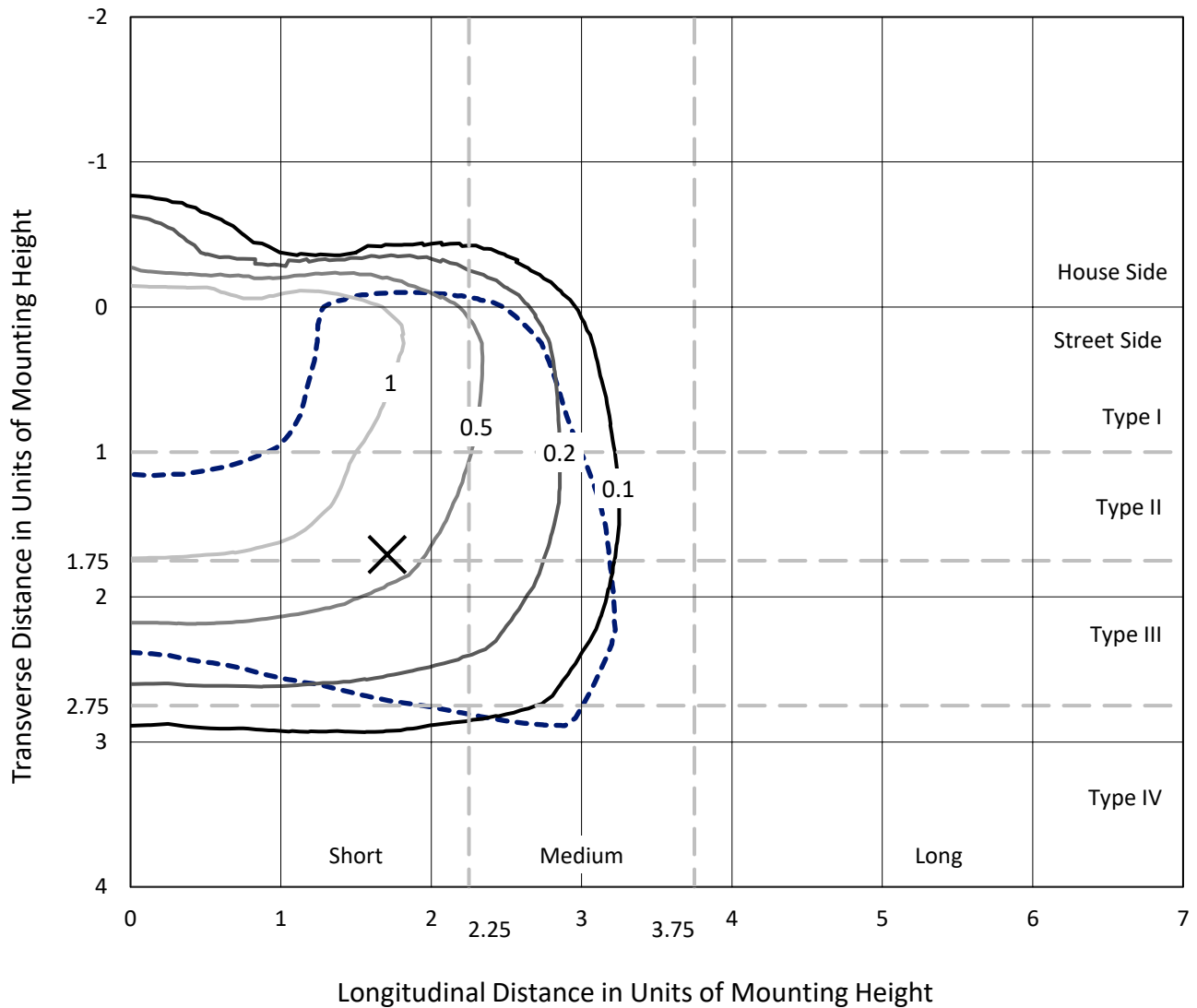
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

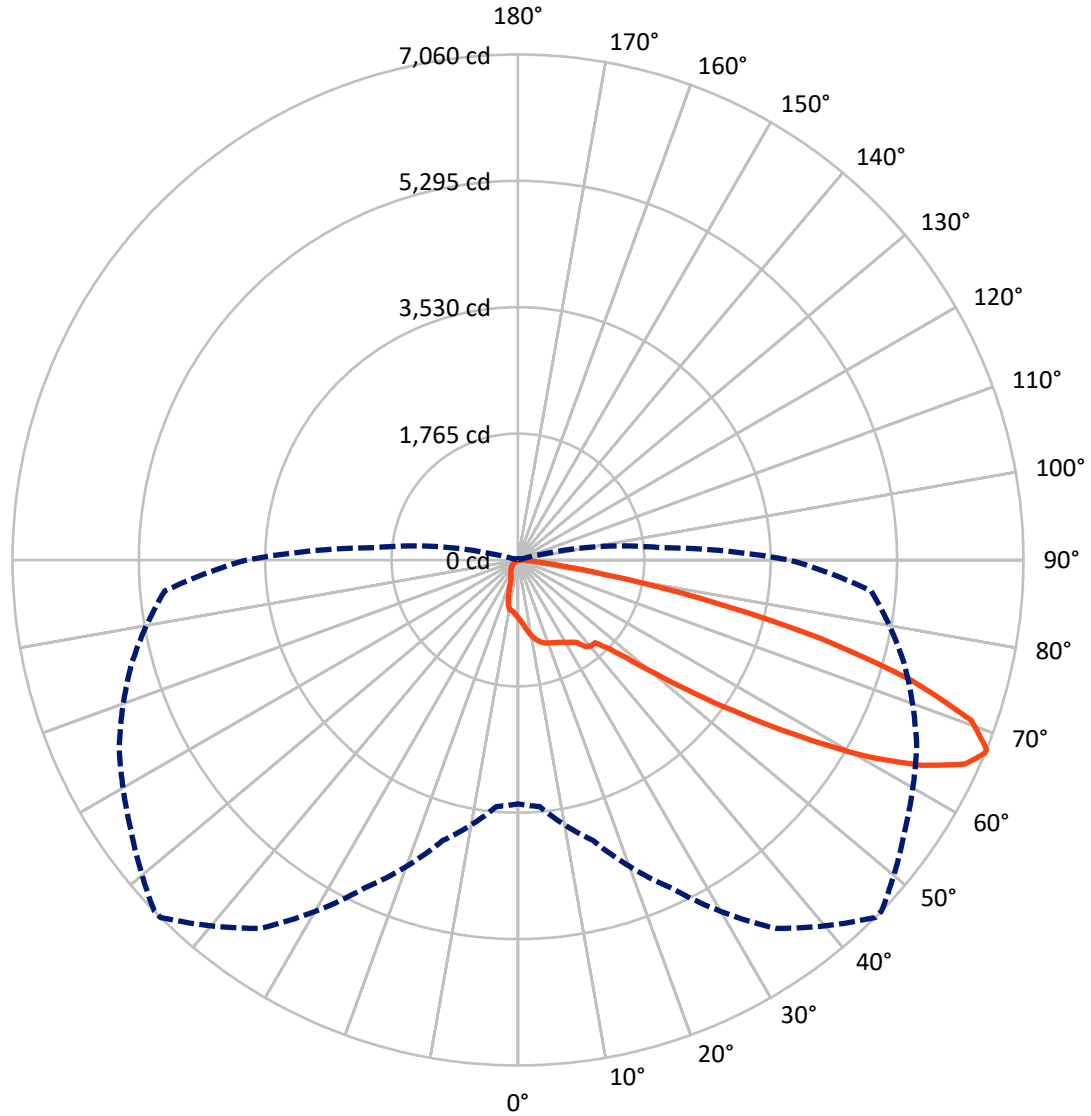
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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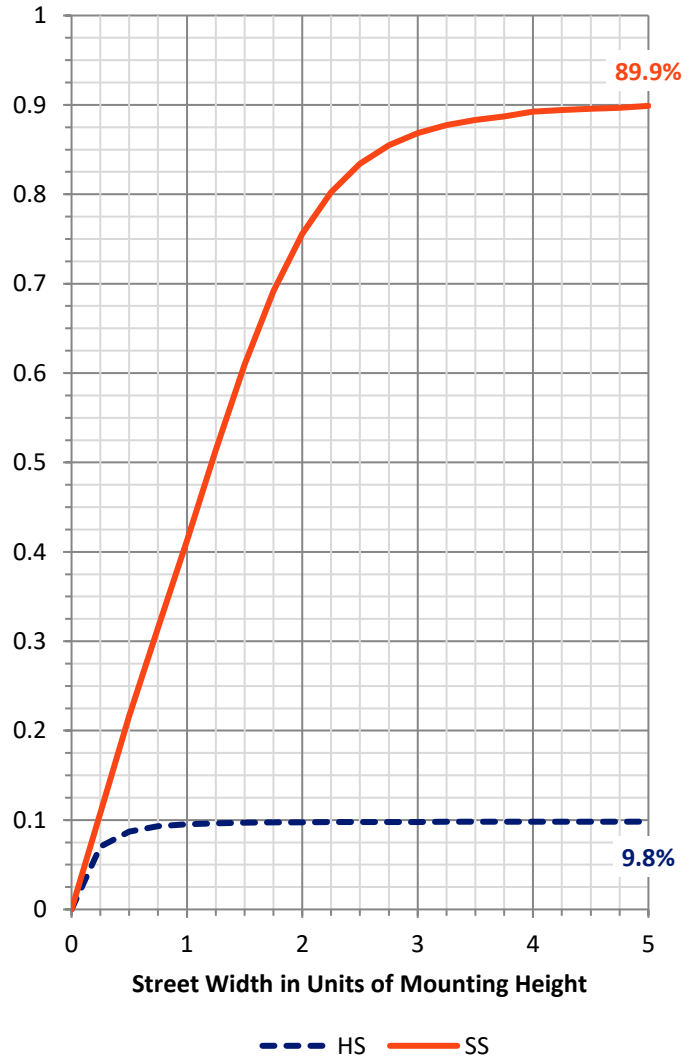
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.2	0.0	849.2
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	7720.8	0.0	7720.8
	% Fixture	90.1	0.0	90.1
Total	Lumens	8570.0	0.0	8570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	0.9
10°-20°	245.9	2.9
20°-30°	393.4	4.6
30°-40°	566.2	6.6
40°-50°	993.2	11.6
50°-60°	2092.8	24.4
60°-70°	2894.0	33.8
70°-80°	1211.6	14.1
80°-90°	91.6	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°	8570.0	100.0
0°-180°	8570.0	100.0

Coefficient of Utilization

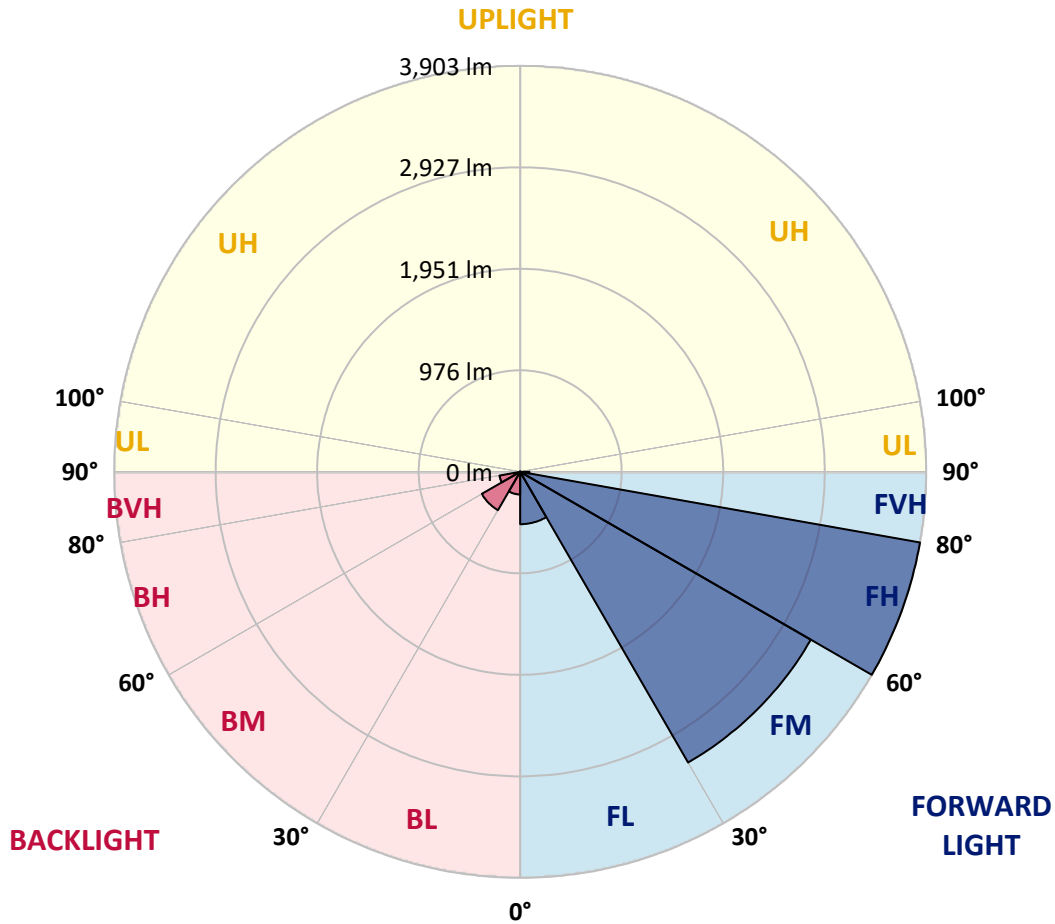


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.0	5.9			
FM (30°-60°)	3226.7	37.7			
FH (60°-80°)	3902.6	45.5			G2/5000
FVH (80°-90°)	88.5	1.0			G1/100
BL (0°-30°)	217.6	2.5	B1/500		
BM (30°-60°)	425.5	5.0	B1/1000		
BH (60°-80°)	203.0	2.4	B1/500		G1/500
BVH (80°-90°)	3.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	902.3	886.5	883.3	880.1	870.6	858.0	861.1	851.6	835.8	826.3	816.8
5°	1013.1	997.3	991.0	972.0	953.0	924.5	924.5	899.1	870.6	845.3	820.0
7.5°	1127.1	1114.4	1101.8	1073.3	1044.8	1006.8	1003.6	965.6	921.3	883.3	842.2
10°	1222.1	1212.6	1196.7	1161.9	1123.9	1082.8	1073.3	1038.4	981.5	930.8	877.0
12.5°	1298.1	1288.6	1266.4	1231.6	1184.1	1142.9	1139.8	1095.4	1038.4	984.6	918.1
15°	1355.0	1339.2	1313.9	1275.9	1228.4	1190.4	1184.1	1146.1	1092.3	1032.1	953.0
17.5°	1364.5	1355.0	1332.9	1291.7	1250.6	1218.9	1215.7	1187.2	1139.8	1076.4	994.1
20°	1339.2	1336.0	1317.0	1285.4	1253.7	1237.9	1234.7	1215.7	1177.7	1120.8	1038.4
22.5°	1301.2	1298.1	1285.4	1269.6	1256.9	1253.7	1253.7	1247.4	1225.2	1171.4	1095.4
25°	1275.9	1272.7	1266.4	1256.9	1256.9	1275.9	1279.1	1285.4	1266.4	1225.2	1142.9
27.5°	1279.1	1272.7	1266.4	1256.9	1269.6	1304.4	1307.6	1323.4	1307.6	1269.6	1196.7
30°	1323.4	1313.9	1294.9	1272.7	1288.6	1336.0	1339.2	1358.2	1345.5	1326.5	1256.9
32.5°	1393.0	1386.7	1348.7	1310.7	1320.2	1367.7	1374.0	1408.9	1424.7	1396.2	1310.7
35°	1494.3	1472.2	1424.7	1386.7	1380.4	1415.2	1424.7	1481.7	1522.8	1453.2	1342.4
37.5°	1576.7	1557.7	1481.7	1421.5	1456.4	1535.5	1538.7	1608.3	1573.5	1459.5	1393.0
40°	1855.3	1852.1	1719.1	1529.2	1491.2	1579.8	1592.5	1605.2	1589.3	1532.3	1503.8
42.5°	2304.8	2266.8	2118.0	1826.8	1567.2	1576.7	1583.0	1649.5	1731.8	1706.5	1716.0
45°	2792.4	2760.7	2592.9	2225.7	1826.8	1747.6	1754.0	1861.6	2019.9	2051.6	2102.2
47.5°	3242.0	3191.3	3096.3	2725.9	2270.0	2038.9	2051.6	2181.4	2444.1	2513.8	2592.9
50°	3621.9	3587.1	3498.4	3254.6	2814.6	2498.0	2510.6	2618.3	2960.2	3071.0	3172.3
52.5°	4172.8	4125.3	3954.3	3840.3	3507.9	3096.3	3067.8	3181.8	3574.4	3647.2	3783.3
55°	4679.3	4581.2	4479.9	4432.4	4293.1	3811.8	3802.3	3824.5	4150.6	4188.6	4432.4
57.5°	4894.6	4875.6	4961.1	5119.4	5151.1	4654.0	4612.8	4527.4	4783.8	4780.6	5065.6
60°	5030.7	5030.7	5258.7	5651.3	5904.6	5553.1	5496.1	5230.2	5322.0	5325.2	5588.0
62.5°	4945.3	4967.4	5322.0	5914.1	6423.8	6316.1	6278.1	5831.7	5825.4	5752.6	5844.4
65°	4416.5	4454.5	5024.4	5768.4	6613.7	6867.0	6851.2	6344.6	6161.0	5895.1	5689.3
67°	3602.9	3672.5	4362.7	5242.9	6398.4	7057.0	7060.1	6566.2	6164.2	5657.6	5141.6
67.5°	3406.6	3457.3	4055.6	5052.9	6281.3	7060.1	7060.1	6594.7	6145.2	5584.8	4951.6
70°	2171.9	2184.5	2836.7	3910.0	5366.3	6718.2	6743.5	6379.5	5597.5	4521.0	3476.2
72.5°	1073.3	1044.8	1497.5	2517.0	4027.1	5749.4	5815.9	5448.7	4429.2	2953.9	1836.3
75°	421.1	449.6	652.2	1339.2	2523.3	4334.2	4384.9	3963.8	2849.4	1522.8	725.0
77.5°	186.8	186.8	278.6	601.5	1326.5	2659.4	2684.8	2418.8	1503.8	626.9	221.6
80°	101.3	107.6	145.6	262.8	668.0	1222.1	1332.9	1199.9	680.7	275.4	76.0
82.5°	50.7	53.8	88.6	148.8	335.6	462.2	487.6	509.7	313.4	171.0	31.7
85°	19.0	22.2	47.5	85.5	152.0	155.1	155.1	199.5	171.0	129.8	15.8
87.5°	3.2	6.3	22.2	34.8	60.2	53.8	47.5	63.3	95.0	82.3	9.5
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°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	810.5	804.2	791.5	782.0	775.7	769.3	763.0	763.0	759.8	759.8	763.0
5°	810.5	797.8	772.5	756.7	744.0	734.5	728.2	728.2	725.0	728.2	731.3
7.5°	826.3	807.3	772.5	744.0	728.2	712.3	706.0	702.8	702.8	706.0	702.8
10°	851.6	826.3	782.0	744.0	721.8	699.7	664.9	633.2	604.7	592.0	588.9
12.5°	883.3	851.6	797.8	753.5	718.7	642.7	547.7	487.6	449.6	430.6	424.2
15°	918.1	880.1	816.8	766.2	671.2	528.7	405.2	338.8	316.6	319.8	322.9
17.5°	956.1	915.0	845.3	759.8	576.2	392.6	297.6	281.8	291.3	300.8	300.8
20°	994.1	949.8	873.8	712.3	452.7	291.3	265.9	269.1	278.6	288.1	288.1
22.5°	1044.8	997.3	902.3	630.0	335.6	253.3	253.3	259.6	265.9	275.4	275.4
25°	1098.6	1051.1	921.3	528.7	250.1	237.4	240.6	246.9	253.3	262.8	262.8
27.5°	1155.6	1108.1	918.1	408.4	218.5	218.5	221.6	231.1	237.4	246.9	246.9
30°	1218.9	1177.7	883.3	297.6	202.6	199.5	199.5	209.0	218.5	224.8	228.0
32.5°	1272.7	1237.9	823.2	224.8	190.0	183.6	180.5	183.6	193.1	199.5	202.6
35°	1317.0	1304.4	734.5	193.1	177.3	167.8	161.5	158.3	161.5	161.5	164.6
37.5°	1399.4	1402.5	630.0	180.5	167.8	155.1	142.5	133.0	126.6	123.5	120.3
40°	1554.5	1551.3	519.2	171.0	158.3	142.5	123.5	110.8	95.0	88.6	88.6
42.5°	1772.9	1725.5	395.7	161.5	148.8	129.8	104.5	85.5	69.7	66.5	66.5
45°	2165.5	1969.2	297.6	155.1	139.3	114.0	85.5	63.3	53.8	50.7	50.7
47.5°	2599.3	2251.0	237.4	145.6	129.8	101.3	66.5	50.7	41.2	41.2	41.2
50°	3077.3	2520.1	199.5	136.1	114.0	85.5	53.8	41.2	38.0	34.8	38.0
52.5°	3599.7	2732.2	174.1	123.5	98.1	69.7	44.3	38.0	31.7	31.7	31.7
55°	4068.3	2874.7	145.6	107.6	82.3	57.0	41.2	31.7	28.5	25.3	22.2
57.5°	4492.5	2950.7	117.1	91.8	63.3	47.5	34.8	25.3	22.2	15.8	15.8
60°	4711.0	2881.0	91.8	72.8	50.7	38.0	28.5	22.2	15.8	9.5	9.5
62.5°	4745.8	2700.6	72.8	57.0	44.3	31.7	22.2	15.8	9.5	6.3	6.3
65°	4441.9	2384.0	60.2	47.5	34.8	25.3	19.0	12.7	6.3	3.2	3.2
67°	3897.3	2051.6	53.8	41.2	31.7	22.2	15.8	9.5	6.3	3.2	0.0
67.5°	3789.7	1991.4	50.7	41.2	31.7	22.2	15.8	9.5	6.3	3.2	0.0
70°	2488.5	1377.2	47.5	38.0	28.5	19.0	12.7	9.5	3.2	0.0	0.0
72.5°	1358.2	693.3	44.3	34.8	25.3	19.0	12.7	6.3	3.2	0.0	0.0
75°	497.1	262.8	38.0	31.7	22.2	19.0	12.7	6.3	3.2	0.0	0.0
77.5°	167.8	91.8	34.8	31.7	25.3	19.0	12.7	6.3	3.2	0.0	0.0
80°	57.0	41.2	28.5	25.3	19.0	15.8	12.7	6.3	3.2	0.0	0.0
82.5°	22.2	12.7	9.5	9.5	9.5	12.7	12.7	9.5	3.2	0.0	0.0
85°	9.5	6.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0
87.5°	9.5	6.3	3.2	3.2	3.2	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)