

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: P573388

Luminaire Tested: **ARCH-S-PA2-70-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573388
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-PA2-70-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 725mA 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: 7147 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

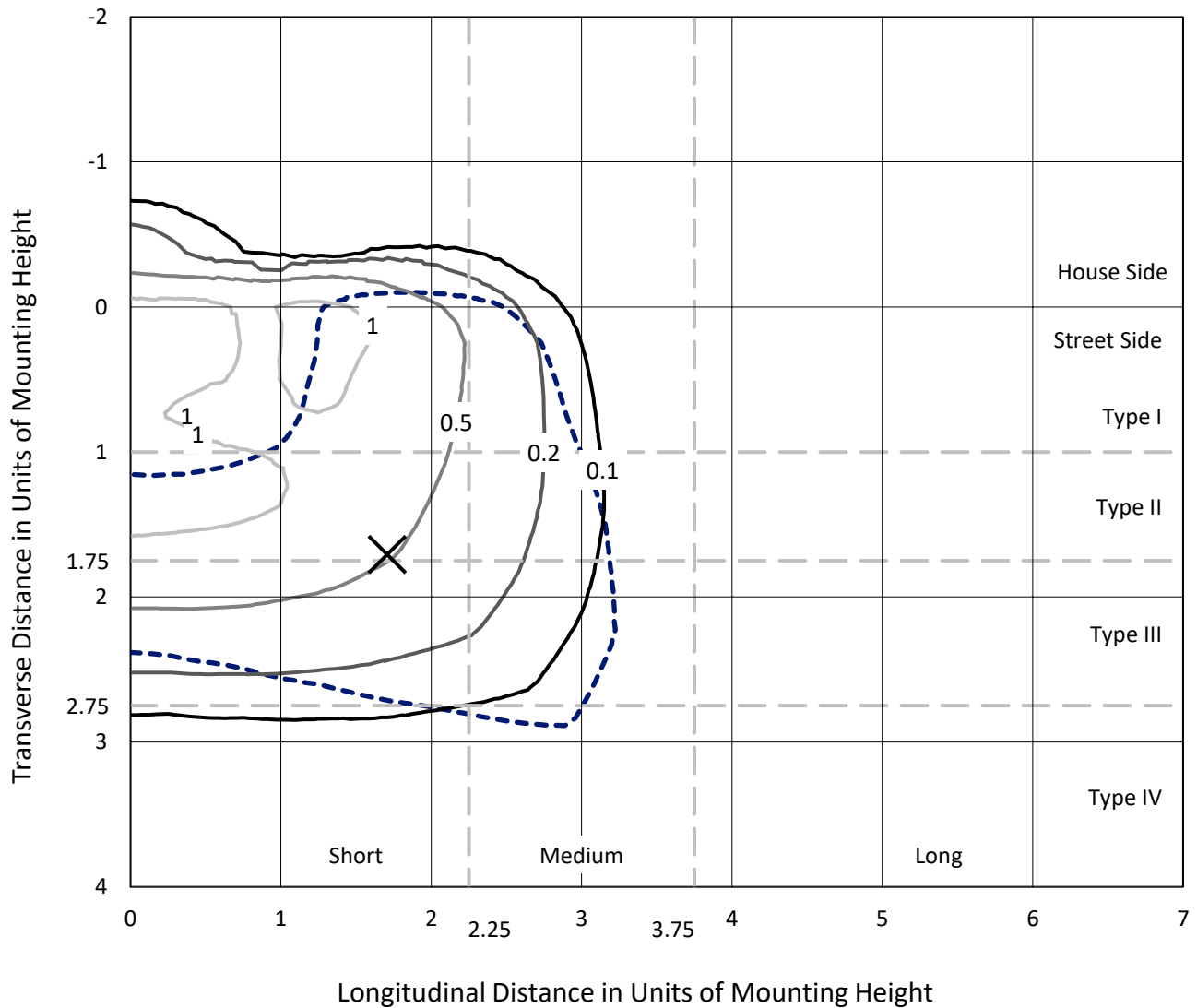
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

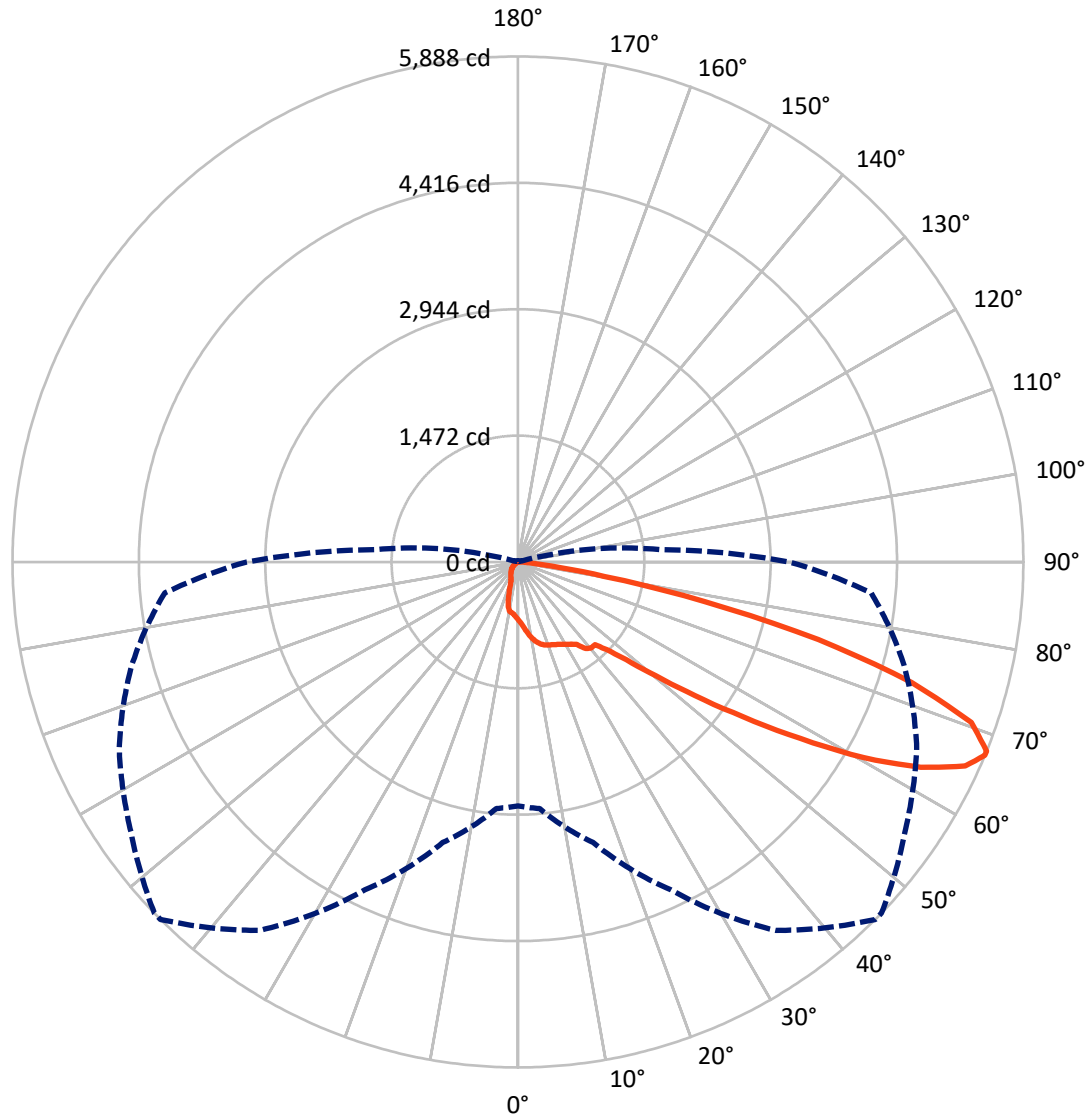
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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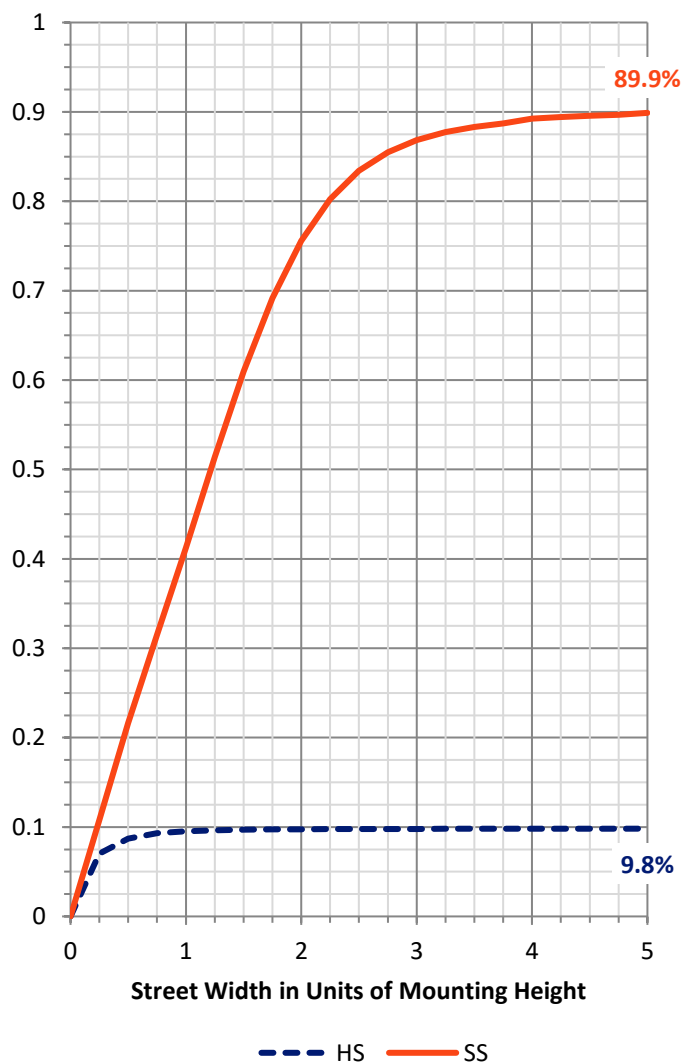
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.1	0.0	708.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	6438.8	0.0	6438.8
	% Fixture	90.1	0.0	90.1
Total	Lumens	7147.0	0.0	7147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	0.9
10°-20°	205.1	2.9
20°-30°	328.1	4.6
30°-40°	472.2	6.6
40°-50°	828.3	11.6
50°-60°	1745.3	24.4
60°-70°	2413.5	33.8
70°-80°	1010.4	14.1
80°-90°	76.4	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°	7147.0	100.0
0°-180°	7147.0	100.0

Coefficient of Utilization



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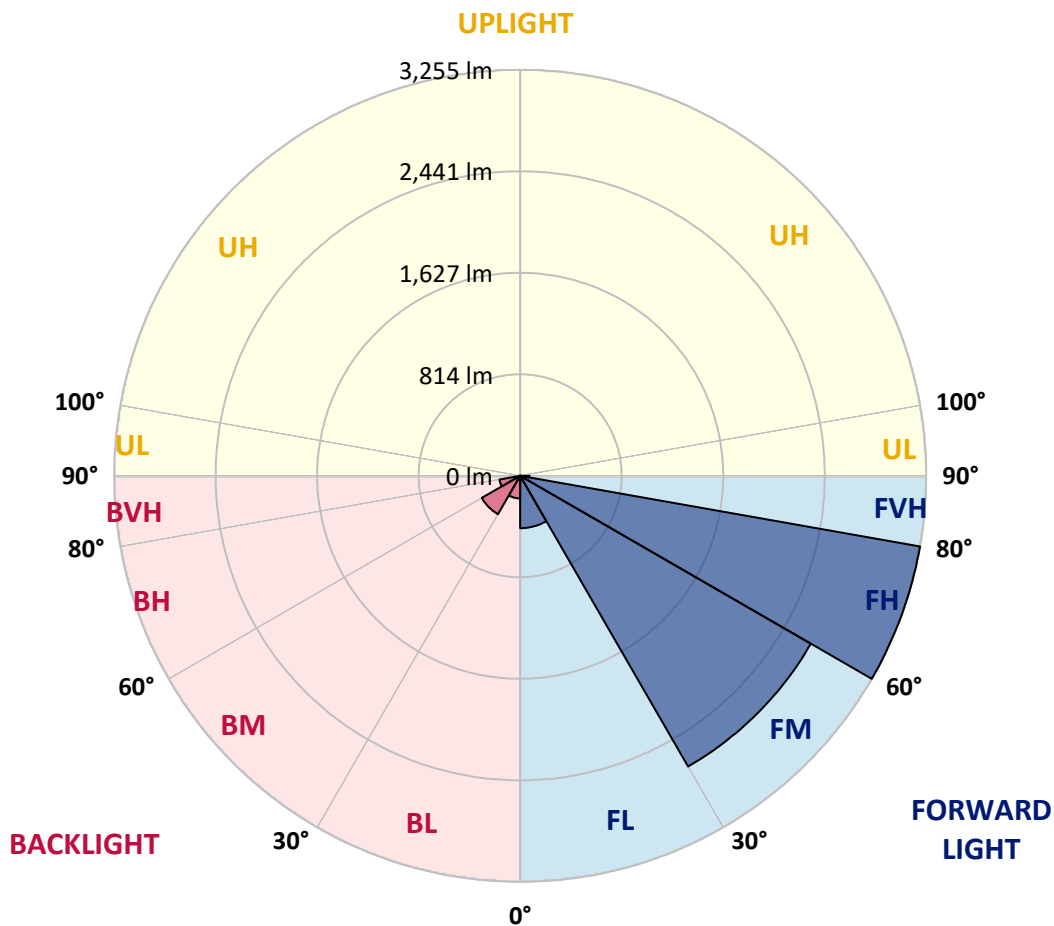
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.5	5.9			
FM (30°-60°)	2690.9	37.7			
FH (60°-80°)	3254.6	45.5			G2/5000
FVH (80°-90°)	73.8	1.0			G1/100
BL (0°-30°)	181.5	2.5	B1/500		
BM (30°-60°)	354.8	5.0	B1/1000		
BH (60°-80°)	169.3	2.4	B1/500		G1/500
BVH (80°-90°)	2.6	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°	46°	55°	65°	75°	85°
0°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	752.5	739.3	736.6	734.0	726.1	715.5	718.2	710.2	697.0	689.1	681.2
5°	844.9	831.7	826.4	810.6	794.7	771.0	771.0	749.8	726.1	705.0	683.8
7.5°	939.9	929.4	918.8	895.1	871.3	839.6	837.0	805.3	768.3	736.6	702.3
10°	1019.2	1011.2	998.0	969.0	937.3	903.0	895.1	866.0	818.5	776.2	731.4
12.5°	1082.5	1074.6	1056.1	1027.1	987.5	953.1	950.5	913.5	866.0	821.1	765.7
15°	1130.0	1116.8	1095.7	1064.0	1024.4	992.7	987.5	955.8	910.9	860.7	794.7
17.5°	1138.0	1130.0	1111.6	1077.2	1042.9	1016.5	1013.9	990.1	950.5	897.7	829.1
20°	1116.8	1114.2	1098.4	1072.0	1045.6	1032.4	1029.7	1013.9	982.2	934.7	866.0
22.5°	1085.2	1082.5	1072.0	1058.8	1048.2	1045.6	1045.6	1040.3	1021.8	976.9	913.5
25°	1064.0	1061.4	1056.1	1048.2	1048.2	1064.0	1066.7	1072.0	1056.1	1021.8	953.1
27.5°	1066.7	1061.4	1056.1	1048.2	1058.8	1087.8	1090.4	1103.6	1090.4	1058.8	998.0
30°	1103.6	1095.7	1079.9	1061.4	1074.6	1114.2	1116.8	1132.7	1122.1	1106.3	1048.2
32.5°	1161.7	1156.4	1124.8	1093.1	1101.0	1140.6	1145.9	1174.9	1188.1	1164.4	1093.1
35°	1246.2	1227.7	1188.1	1156.4	1151.2	1180.2	1188.1	1235.7	1270.0	1211.9	1119.5
37.5°	1314.9	1299.0	1235.7	1185.5	1214.5	1280.5	1283.2	1341.3	1312.2	1217.2	1161.7
40°	1547.2	1544.6	1433.7	1275.3	1243.6	1317.5	1328.1	1338.6	1325.4	1277.9	1254.1
42.5°	1922.1	1890.4	1766.4	1523.4	1306.9	1314.9	1320.1	1375.6	1444.2	1423.1	1431.0
45°	2328.7	2302.3	2162.4	1856.1	1523.4	1457.4	1462.7	1552.5	1684.5	1710.9	1753.2
47.5°	2703.7	2661.4	2582.2	2273.3	1893.1	1700.3	1710.9	1819.2	2038.3	2096.4	2162.4
50°	3020.5	2991.4	2917.5	2714.2	2347.2	2083.2	2093.7	2183.5	2468.7	2561.1	2645.6
52.5°	3479.9	3440.3	3297.7	3202.7	2925.4	2582.2	2558.4	2653.5	2980.9	3041.6	3155.1
55°	3902.3	3820.5	3736.0	3696.4	3580.2	3178.9	3171.0	3189.5	3461.4	3493.1	3696.4
57.5°	4081.9	4066.0	4137.3	4269.3	4295.7	3881.2	3846.9	3775.6	3989.5	3986.8	4224.5
60°	4195.4	4195.4	4385.5	4712.9	4924.1	4631.1	4583.5	4361.8	4438.3	4441.0	4660.1
62.5°	4124.1	4142.6	4438.3	4932.1	5357.1	5267.4	5235.7	4863.4	4858.1	4797.4	4874.0
65°	3683.2	3714.9	4190.1	4810.6	5515.6	5726.8	5713.6	5291.1	5138.0	4916.2	4744.6
67°	3004.6	3062.7	3638.3	4372.3	5336.0	5885.2	5887.8	5476.0	5140.6	4718.2	4287.8
67.5°	2841.0	2883.2	3382.2	4213.9	5238.3	5887.8	5887.8	5499.7	5124.8	4657.5	4129.4
70°	1811.2	1821.8	2365.7	3260.8	4475.3	5602.7	5623.8	5320.2	4668.0	3770.3	2899.0
72.5°	895.1	871.3	1248.9	2099.0	3358.4	4794.8	4850.2	4543.9	3693.8	2463.4	1531.4
75°	351.2	374.9	543.9	1116.8	2104.3	3614.6	3656.8	3305.6	2376.3	1270.0	604.6
77.5°	155.8	155.8	232.3	501.7	1106.3	2217.8	2239.0	2017.2	1254.1	522.8	184.8
80°	84.5	89.8	121.5	219.1	557.1	1019.2	1111.6	1000.7	567.7	229.7	63.4
82.5°	42.2	44.9	73.9	124.1	279.9	385.5	406.6	425.1	261.4	142.6	26.4
85°	15.8	18.5	39.6	71.3	126.7	129.4	129.4	166.3	142.6	108.3	13.2
87.5°	2.6	5.3	18.5	29.0	50.2	44.9	39.6	52.8	79.2	68.6	7.9
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°	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9	675.9
2.5°	675.9	670.6	660.1	652.2	646.9	641.6	636.3	636.3	633.7	633.7	636.3
5°	675.9	665.4	644.2	631.0	620.5	612.5	607.3	607.3	604.6	607.3	609.9
7.5°	689.1	673.3	644.2	620.5	607.3	594.1	588.8	586.1	586.1	588.8	586.1
10°	710.2	689.1	652.2	620.5	602.0	583.5	554.5	528.1	504.3	493.7	491.1
12.5°	736.6	710.2	665.4	628.4	599.3	536.0	456.8	406.6	374.9	359.1	353.8
15°	765.7	734.0	681.2	638.9	559.7	440.9	338.0	282.5	264.0	266.7	269.3
17.5°	797.4	763.0	705.0	633.7	480.5	327.4	248.2	235.0	242.9	250.8	250.8
20°	829.1	792.1	728.7	594.1	377.6	242.9	221.8	224.4	232.3	240.3	240.3
22.5°	871.3	831.7	752.5	525.4	279.9	211.2	211.2	216.5	221.8	229.7	229.7
25°	916.2	876.6	768.3	440.9	208.6	198.0	200.7	205.9	211.2	219.1	219.1
27.5°	963.7	924.1	765.7	340.6	182.2	182.2	184.8	192.7	198.0	205.9	205.9
30°	1016.5	982.2	736.6	248.2	169.0	166.3	166.3	174.3	182.2	187.5	190.1
32.5°	1061.4	1032.4	686.5	187.5	158.4	153.1	150.5	153.1	161.1	166.3	169.0
35°	1098.4	1087.8	612.5	161.1	147.9	139.9	134.7	132.0	134.7	134.7	137.3
37.5°	1167.0	1169.6	525.4	150.5	139.9	129.4	118.8	110.9	105.6	103.0	100.3
40°	1296.4	1293.7	433.0	142.6	132.0	118.8	103.0	92.4	79.2	73.9	73.9
42.5°	1478.6	1439.0	330.0	134.7	124.1	108.3	87.1	71.3	58.1	55.4	55.4
45°	1806.0	1642.3	248.2	129.4	116.2	95.1	71.3	52.8	44.9	42.2	42.2
47.5°	2167.7	1877.2	198.0	121.5	108.3	84.5	55.4	42.2	34.3	34.3	34.3
50°	2566.4	2101.7	166.3	113.5	95.1	71.3	44.9	34.3	31.7	29.0	31.7
52.5°	3002.0	2278.6	145.2	103.0	81.8	58.1	37.0	31.7	26.4	26.4	26.4
55°	3392.8	2397.4	121.5	89.8	68.6	47.5	34.3	26.4	23.8	21.1	18.5
57.5°	3746.6	2460.7	97.7	76.6	52.8	39.6	29.0	21.1	18.5	13.2	13.2
60°	3928.7	2402.7	76.6	60.7	42.2	31.7	23.8	18.5	13.2	7.9	7.9
62.5°	3957.8	2252.2	60.7	47.5	37.0	26.4	18.5	13.2	7.9	5.3	5.3
65°	3704.3	1988.1	50.2	39.6	29.0	21.1	15.8	10.6	5.3	2.6	2.6
67°	3250.2	1710.9	44.9	34.3	26.4	18.5	13.2	7.9	5.3	2.6	0.0
67.5°	3160.4	1660.7	42.2	34.3	26.4	18.5	13.2	7.9	5.3	2.6	0.0
70°	2075.3	1148.5	39.6	31.7	23.8	15.8	10.6	7.9	2.6	0.0	0.0
72.5°	1132.7	578.2	37.0	29.0	21.1	15.8	10.6	5.3	2.6	0.0	0.0
75°	414.5	219.1	31.7	26.4	18.5	15.8	10.6	5.3	2.6	0.0	0.0
77.5°	139.9	76.6	29.0	26.4	21.1	15.8	10.6	5.3	2.6	0.0	0.0
80°	47.5	34.3	23.8	21.1	15.8	13.2	10.6	5.3	2.6	0.0	0.0
82.5°	18.5	10.6	7.9	7.9	7.9	10.6	10.6	7.9	2.6	0.0	0.0
85°	7.9	5.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
87.5°	7.9	5.3	2.6	2.6	2.6	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)