

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: P573145

Luminaire Tested: **ARCH-S-PA2-40-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573145
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-PA2-40-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA 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: 4472 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

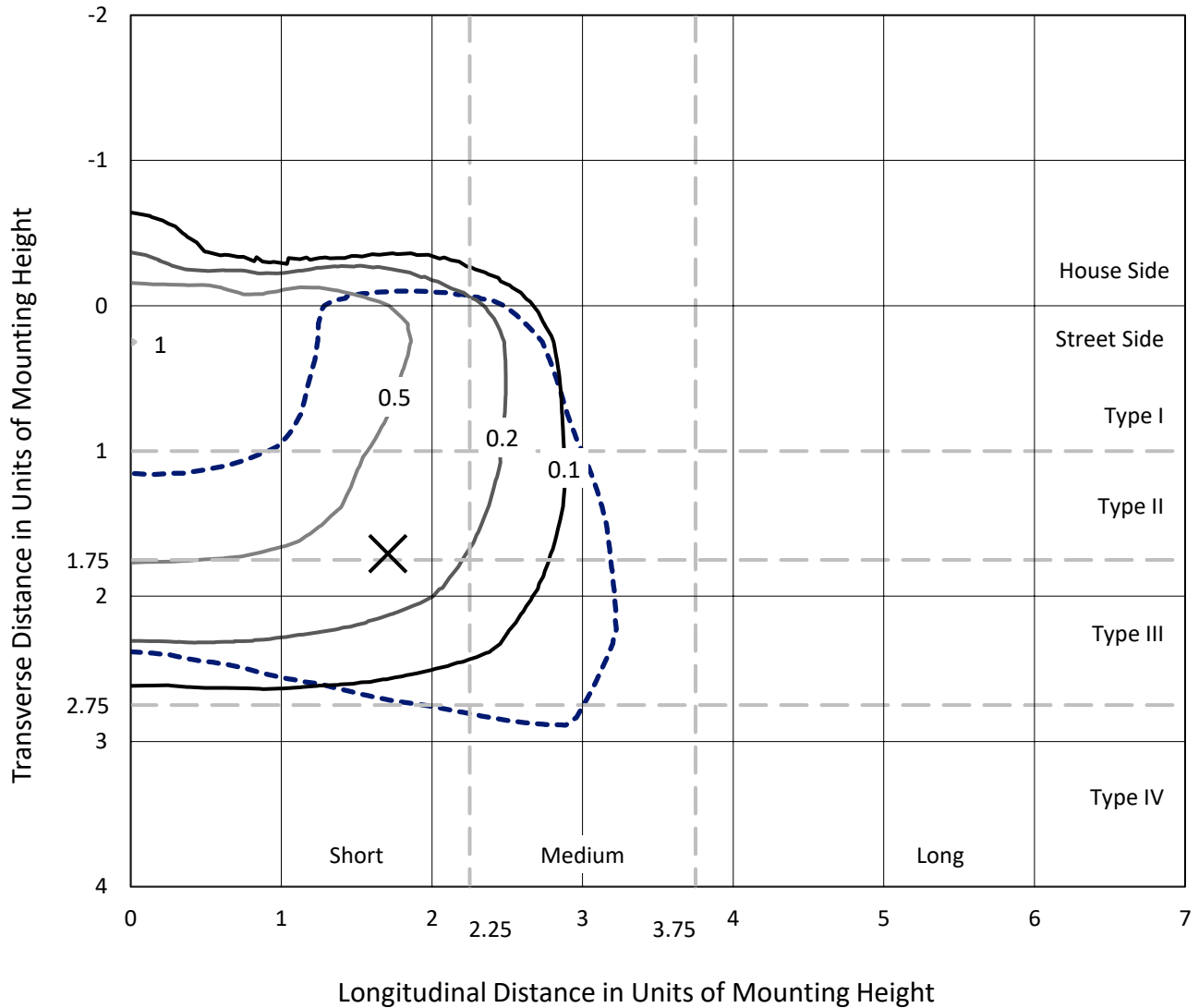
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

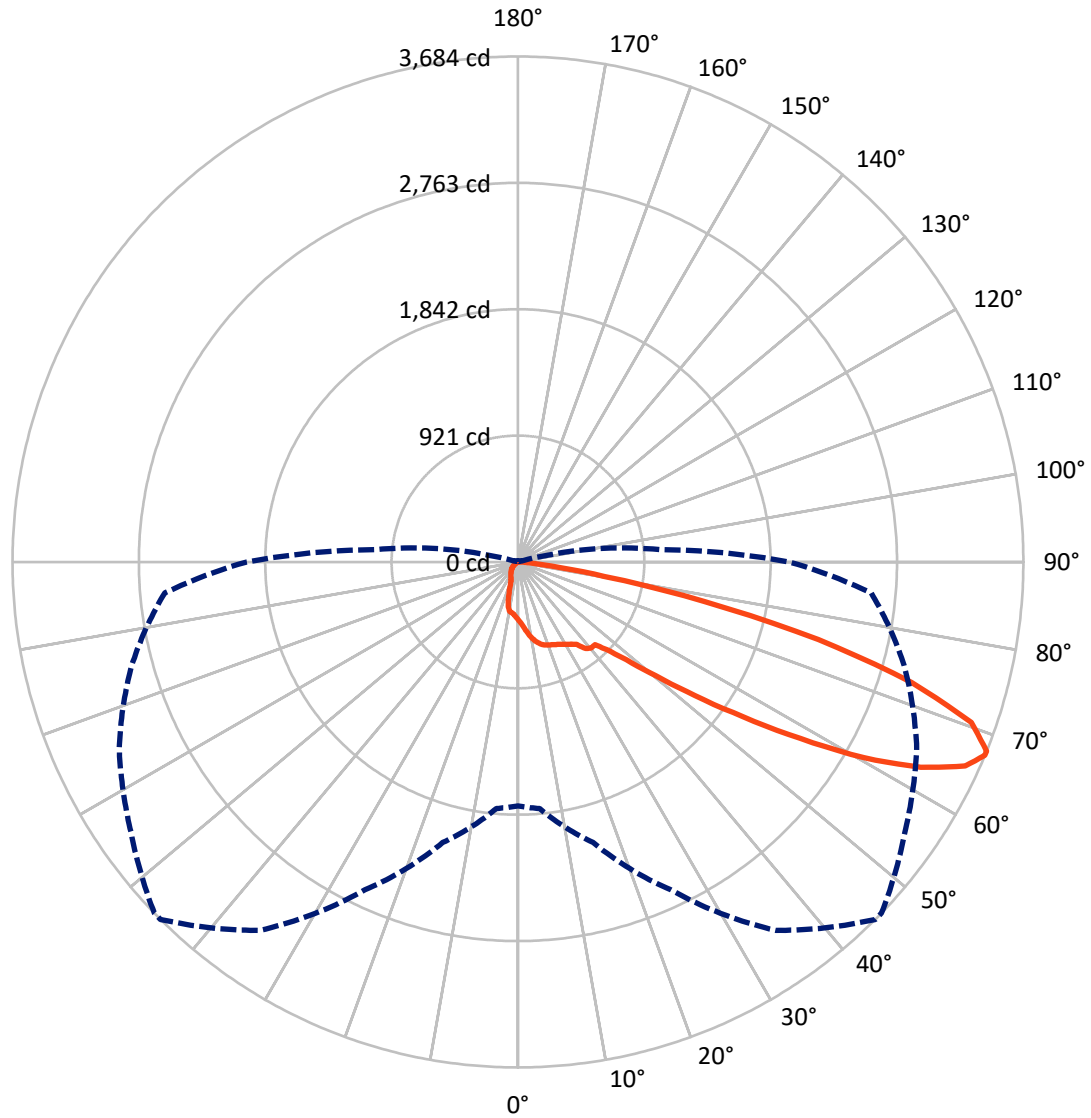
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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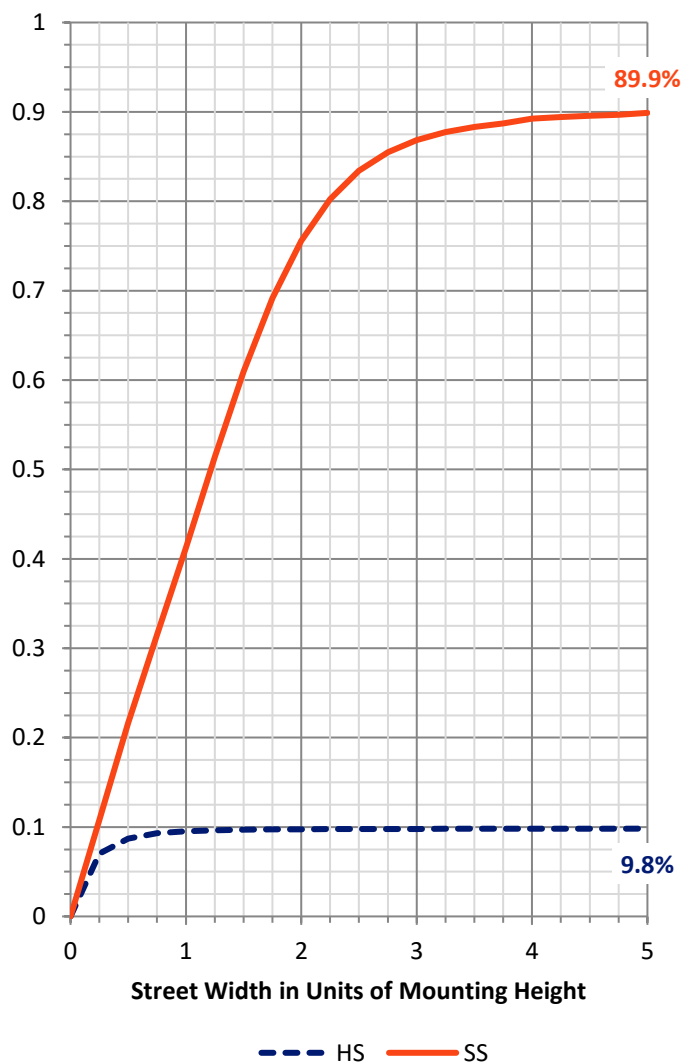
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.1	0.0	443.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	4028.9	0.0	4028.9
	% Fixture	90.1	0.0	90.1
Total	Lumens	4472.0	0.0	4472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	0.9
10°-20°	128.3	2.9
20°-30°	205.3	4.6
30°-40°	295.4	6.6
40°-50°	518.3	11.6
50°-60°	1092.1	24.4
60°-70°	1510.2	33.8
70°-80°	632.2	14.1
80°-90°	47.8	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°	4472.0	100.0
0°-180°	4472.0	100.0

Coefficient of Utilization

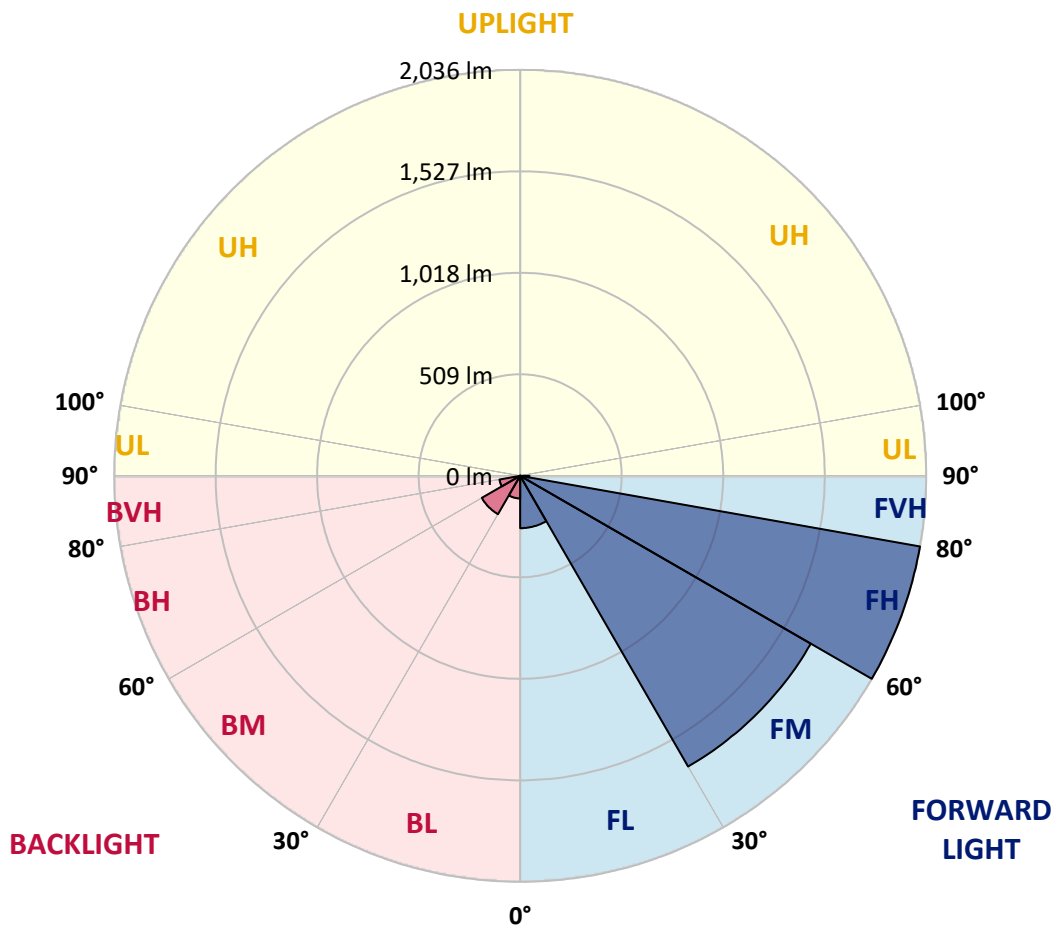


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.5	5.9			
FM (30°-60°)	1683.8	37.7			
FH (60°-80°)	2036.4	45.5			G2/5000
FVH (80°-90°)	46.2	1.0			G1/100
BL (0°-30°)	113.6	2.5	B1/500		
BM (30°-60°)	222.0	5.0	B1/1000		
BH (60°-80°)	105.9	2.4	B0/110		G0/110
BVH (80°-90°)	1.6	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°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9
2.5°	470.8	462.6	460.9	459.3	454.3	447.7	449.4	444.4	436.1	431.2	426.2
5°	528.7	520.4	517.1	507.2	497.3	482.4	482.4	469.2	454.3	441.1	427.9
7.5°	588.1	581.5	574.9	560.1	545.2	525.4	523.7	503.9	480.8	460.9	439.5
10°	637.7	632.7	624.5	606.3	586.5	565.0	560.1	541.9	512.1	485.7	457.6
12.5°	677.4	672.4	660.8	642.7	617.9	596.4	594.7	571.6	541.9	513.8	479.1
15°	707.1	698.8	685.6	665.8	641.0	621.2	617.9	598.1	570.0	538.6	497.3
17.5°	712.0	707.1	695.5	674.0	652.6	636.0	634.4	619.5	594.7	561.7	518.8
20°	698.8	697.2	687.3	670.7	654.2	646.0	644.3	634.4	614.6	584.8	541.9
22.5°	679.0	677.4	670.7	662.5	655.9	654.2	654.2	650.9	639.4	611.3	571.6
25°	665.8	664.1	660.8	655.9	655.9	665.8	667.4	670.7	660.8	639.4	596.4
27.5°	667.4	664.1	660.8	655.9	662.5	680.7	682.3	690.6	682.3	662.5	624.5
30°	690.6	685.6	675.7	664.1	672.4	697.2	698.8	708.7	702.1	692.2	655.9
32.5°	726.9	723.6	703.8	684.0	688.9	713.7	717.0	735.2	743.4	728.6	684.0
35°	779.8	768.2	743.4	723.6	720.3	738.5	743.4	773.2	794.6	758.3	700.5
37.5°	822.7	812.8	773.2	741.8	760.0	801.3	802.9	839.3	821.1	761.6	726.9
40°	968.1	966.5	897.1	798.0	778.1	824.4	831.0	837.6	829.3	799.6	784.7
42.5°	1202.7	1182.9	1105.2	953.2	817.8	822.7	826.0	860.7	903.7	890.5	895.4
45°	1457.1	1440.6	1353.0	1161.4	953.2	911.9	915.2	971.4	1054.0	1070.5	1097.0
47.5°	1691.7	1665.3	1615.7	1422.4	1184.5	1063.9	1070.5	1138.3	1275.4	1311.7	1353.0
50°	1890.0	1871.8	1825.5	1698.3	1468.7	1303.5	1310.1	1366.3	1544.7	1602.5	1655.4
52.5°	2177.4	2152.7	2063.4	2004.0	1830.5	1615.7	1600.9	1660.3	1865.2	1903.2	1974.2
55°	2441.8	2390.6	2337.7	2312.9	2240.2	1989.1	1984.1	1995.7	2165.9	2185.7	2312.9
57.5°	2554.1	2544.2	2588.8	2671.4	2687.9	2428.5	2407.1	2362.5	2496.3	2494.6	2643.3
60°	2625.1	2625.1	2744.1	2949.0	3081.1	2897.7	2868.0	2729.2	2777.1	2778.8	2915.9
62.5°	2580.5	2592.1	2777.1	3086.1	3352.1	3295.9	3276.1	3043.1	3039.8	3001.8	3049.7
65°	2304.6	2324.5	2621.8	3010.1	3451.2	3583.3	3575.1	3310.8	3214.9	3076.2	2968.8
67°	1880.1	1916.4	2276.6	2735.8	3338.8	3682.5	3684.1	3426.4	3216.6	2952.3	2683.0
67.5°	1777.6	1804.1	2116.3	2636.7	3277.7	3684.1	3684.1	3441.3	3206.7	2914.3	2583.8
70°	1133.3	1139.9	1480.3	2040.3	2800.3	3505.7	3518.9	3328.9	2920.9	2359.2	1814.0
72.5°	560.1	545.2	781.4	1313.4	2101.4	3000.2	3034.9	2843.2	2311.3	1541.4	958.2
75°	219.7	234.6	340.3	698.8	1316.7	2261.7	2288.1	2068.4	1486.9	794.6	378.3
77.5°	97.5	97.5	145.4	313.9	692.2	1387.7	1401.0	1262.2	784.7	327.1	115.6
80°	52.9	56.2	76.0	137.1	348.6	637.7	695.5	626.1	355.2	143.7	39.6
82.5°	26.4	28.1	46.3	77.6	175.1	241.2	254.4	266.0	163.6	89.2	16.5
85°	9.9	11.6	24.8	44.6	79.3	81.0	81.0	104.1	89.2	67.7	8.3
87.5°	1.7	3.3	11.6	18.2	31.4	28.1	24.8	33.0	49.6	43.0	5.0
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°	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9	422.9
2.5°	422.9	419.6	413.0	408.1	404.8	401.5	398.1	398.1	396.5	396.5	398.1
5°	422.9	416.3	403.1	394.8	388.2	383.3	380.0	380.0	378.3	380.0	381.6
7.5°	431.2	421.3	403.1	388.2	380.0	371.7	368.4	366.8	366.8	368.4	366.8
10°	444.4	431.2	408.1	388.2	376.7	365.1	346.9	330.4	315.5	308.9	307.3
12.5°	460.9	444.4	416.3	393.2	375.0	335.4	285.8	254.4	234.6	224.7	221.4
15°	479.1	459.3	426.2	399.8	350.2	275.9	211.5	176.8	165.2	166.9	168.5
17.5°	498.9	477.4	441.1	396.5	300.7	204.9	155.3	147.0	152.0	156.9	156.9
20°	518.8	495.6	456.0	371.7	236.2	152.0	138.8	140.4	145.4	150.3	150.3
22.5°	545.2	520.4	470.8	328.8	175.1	132.2	132.2	135.5	138.8	143.7	143.7
25°	573.3	548.5	480.8	275.9	130.5	123.9	125.6	128.9	132.2	137.1	137.1
27.5°	603.0	578.2	479.1	213.1	114.0	114.0	115.6	120.6	123.9	128.9	128.9
30°	636.0	614.6	460.9	155.3	105.7	104.1	104.1	109.0	114.0	117.3	118.9
32.5°	664.1	646.0	429.5	117.3	99.1	95.8	94.2	95.8	100.8	104.1	105.7
35°	687.3	680.7	383.3	100.8	92.5	87.6	84.3	82.6	84.3	84.3	85.9
37.5°	730.2	731.9	328.8	94.2	87.6	81.0	74.3	69.4	66.1	64.4	62.8
40°	811.2	809.5	270.9	89.2	82.6	74.3	64.4	57.8	49.6	46.3	46.3
42.5°	925.2	900.4	206.5	84.3	77.6	67.7	54.5	44.6	36.3	34.7	34.7
45°	1130.0	1027.6	155.3	81.0	72.7	59.5	44.6	33.0	28.1	26.4	26.4
47.5°	1356.4	1174.6	123.9	76.0	67.7	52.9	34.7	26.4	21.5	21.5	21.5
50°	1605.8	1315.1	104.1	71.0	59.5	44.6	28.1	21.5	19.8	18.2	19.8
52.5°	1878.4	1425.7	90.9	64.4	51.2	36.3	23.1	19.8	16.5	16.5	16.5
55°	2122.9	1500.1	76.0	56.2	43.0	29.7	21.5	16.5	14.9	13.2	11.6
57.5°	2344.3	1539.7	61.1	47.9	33.0	24.8	18.2	13.2	11.6	8.3	8.3
60°	2458.3	1503.4	47.9	38.0	26.4	19.8	14.9	11.6	8.3	5.0	5.0
62.5°	2476.5	1409.2	38.0	29.7	23.1	16.5	11.6	8.3	5.0	3.3	3.3
65°	2317.9	1244.0	31.4	24.8	18.2	13.2	9.9	6.6	3.3	1.7	1.7
67°	2033.7	1070.5	28.1	21.5	16.5	11.6	8.3	5.0	3.3	1.7	0.0
67.5°	1977.5	1039.2	26.4	21.5	16.5	11.6	8.3	5.0	3.3	1.7	0.0
70°	1298.5	718.7	24.8	19.8	14.9	9.9	6.6	5.0	1.7	0.0	0.0
72.5°	708.7	361.8	23.1	18.2	13.2	9.9	6.6	3.3	1.7	0.0	0.0
75°	259.4	137.1	19.8	16.5	11.6	9.9	6.6	3.3	1.7	0.0	0.0
77.5°	87.6	47.9	18.2	16.5	13.2	9.9	6.6	3.3	1.7	0.0	0.0
80°	29.7	21.5	14.9	13.2	9.9	8.3	6.6	3.3	1.7	0.0	0.0
82.5°	11.6	6.6	5.0	5.0	5.0	6.6	6.6	5.0	1.7	0.0	0.0
85°	5.0	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
87.5°	5.0	3.3	1.7	1.7	1.7	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)