

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: P573143

Luminaire Tested: **ARCH-S-PA2-40-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573143
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-PA2-40-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA 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: 4540 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

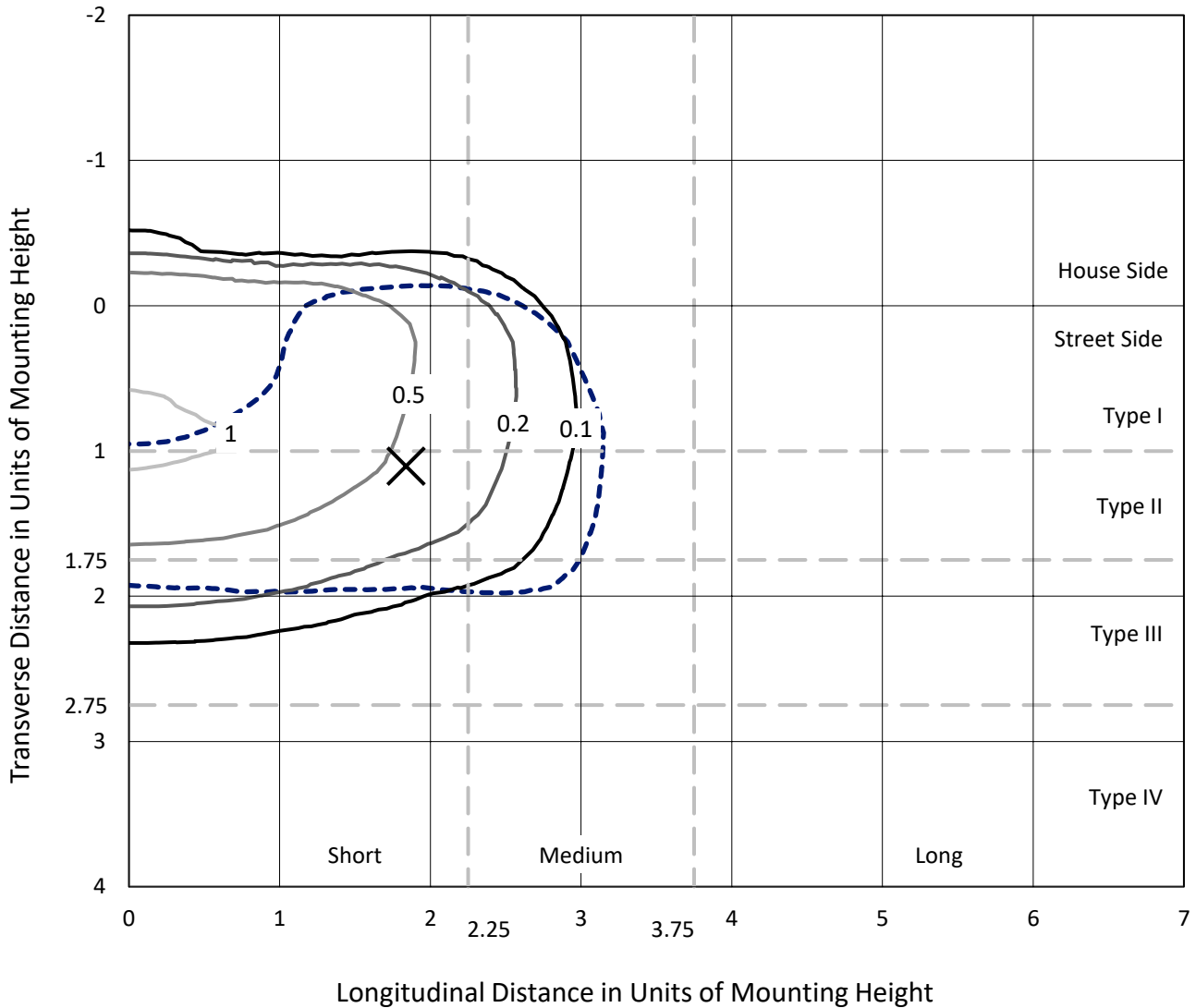
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

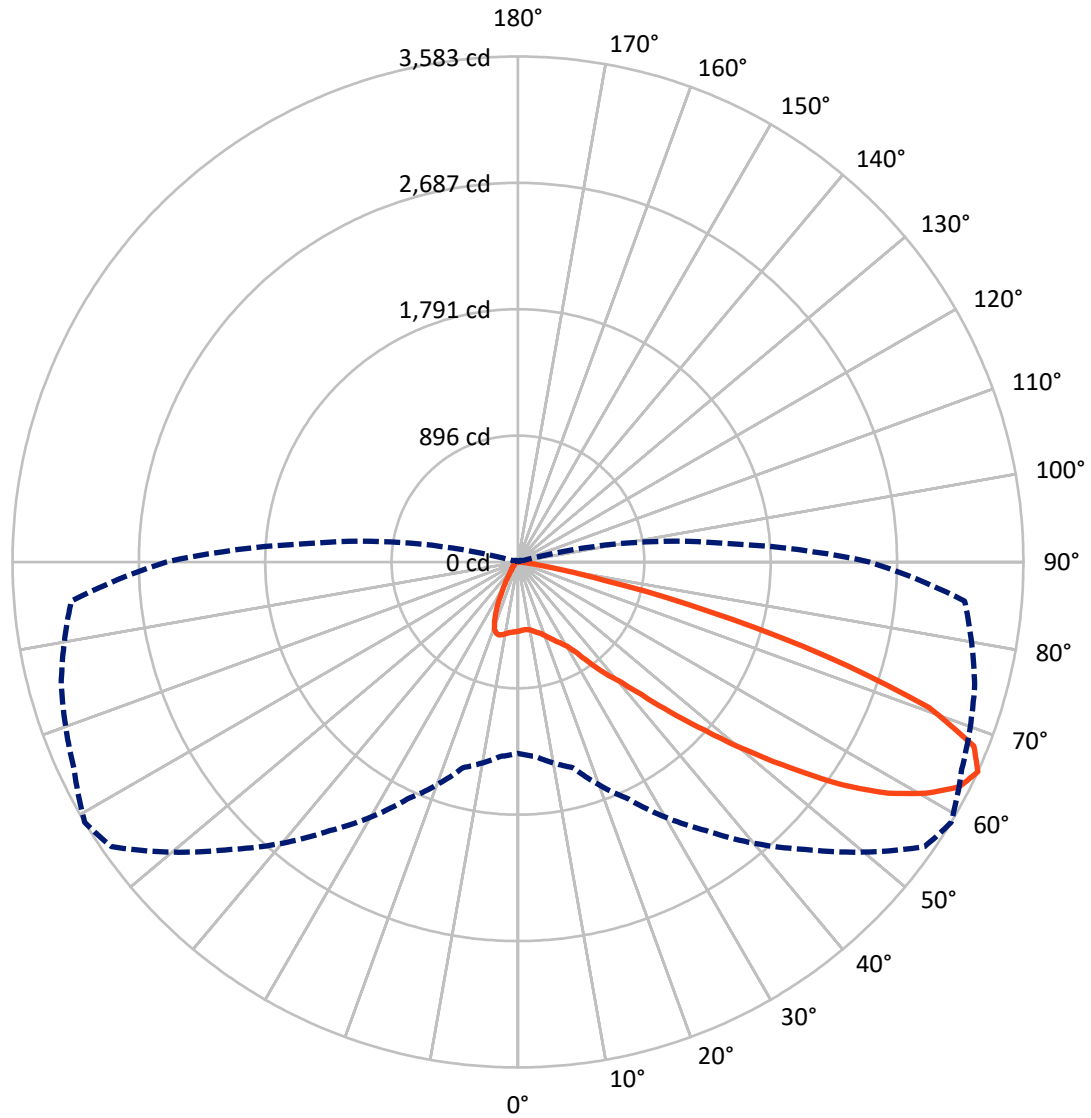
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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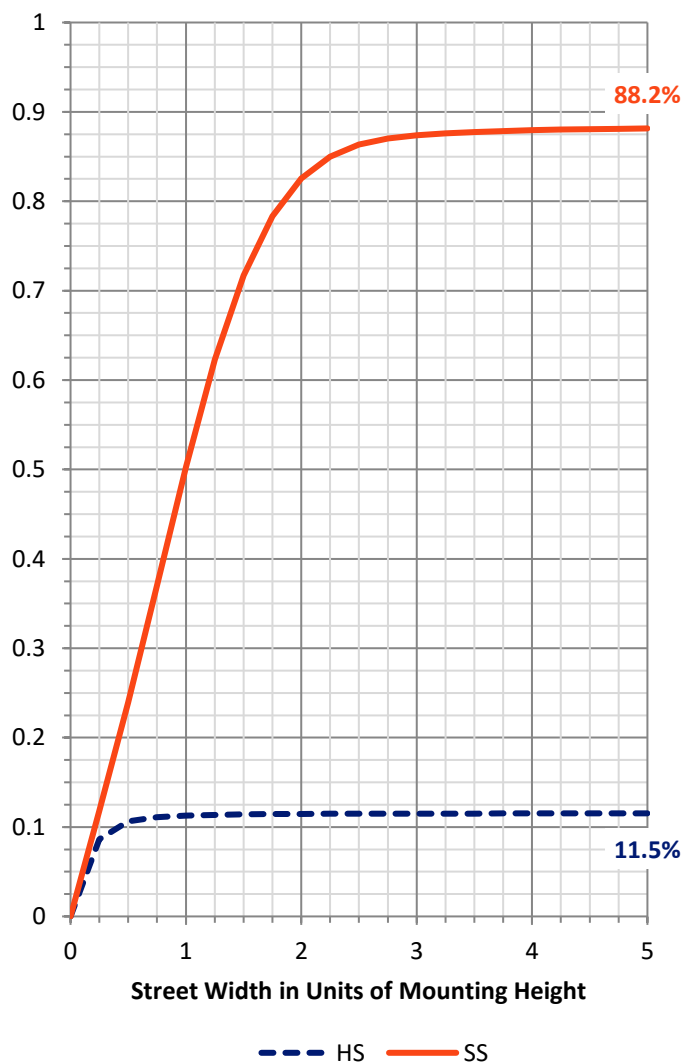
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.7	0.0	529.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4010.4	0.0	4010.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	4540.0	0.0	4540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.0
10°-20°	131.7	2.9
20°-30°	223.7	4.9
30°-40°	396.2	8.7
40°-50°	747.5	16.5
50°-60°	1264.7	27.9
60°-70°	1314.9	29.0
70°-80°	394.3	8.7
80°-90°	20.7	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°	4540.0	100.0
0°-180°	4540.0	100.0

Coefficient of Utilization



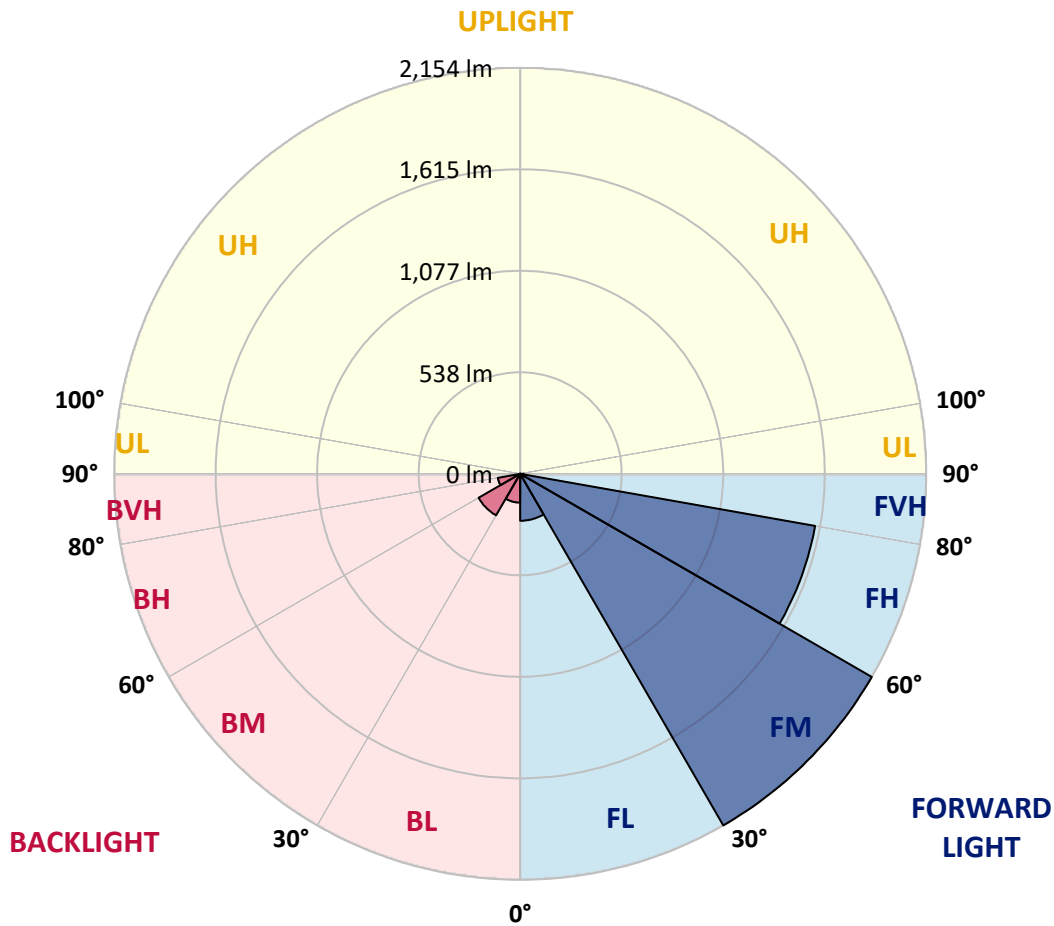
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.0	5.5			
FM (30°-60°)	2153.8	47.4			
FH (60°-80°)	1588.7	35.0			G1/1800
FVH (80°-90°)	18.9	0.4			G1/100
BL (0°-30°)	152.8	3.4	B1/500		
BM (30°-60°)	254.6	5.6	B1/1000		
BH (60°-80°)	120.5	2.7	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6
2.5°	477.4	475.7	475.7	479.0	480.7	482.3	485.6	485.6	485.6	488.9	490.6
5°	454.3	454.3	455.9	459.2	465.8	470.8	480.7	482.3	484.0	492.2	495.5
7.5°	439.4	439.4	441.0	447.6	455.9	467.5	480.7	484.0	488.9	500.5	508.8
10°	437.7	436.1	439.4	446.0	455.9	470.8	485.6	490.6	500.5	515.4	526.9
12.5°	442.7	441.0	444.3	450.9	460.9	475.7	495.5	503.8	515.4	535.2	551.7
15°	446.0	444.3	447.6	455.9	467.5	485.6	508.8	518.7	533.5	561.6	578.1
17.5°	455.9	454.3	455.9	462.5	474.1	493.9	523.6	533.5	558.3	589.7	607.9
20°	500.5	498.9	488.9	485.6	487.3	505.5	543.5	560.0	589.7	629.3	642.6
22.5°	593.0	586.4	568.2	538.5	518.7	525.3	568.2	586.4	626.0	670.6	680.6
25°	716.9	711.9	685.5	634.3	578.1	561.6	596.3	621.1	669.0	718.5	715.2
27.5°	857.3	847.4	822.6	751.6	675.6	621.1	631.0	652.5	705.3	758.2	741.7
30°	979.5	976.2	948.1	888.7	799.5	718.5	683.9	695.4	743.3	799.5	779.7
32.5°	1091.9	1081.9	1058.8	1002.7	920.1	837.5	768.1	768.1	807.7	873.8	844.1
35°	1215.7	1209.1	1181.1	1124.9	1045.6	948.1	885.4	878.8	911.8	986.1	921.7
37.5°	1342.9	1326.4	1313.2	1255.4	1176.1	1091.9	1015.9	1001.0	1017.5	1072.0	992.7
40°	1501.5	1501.5	1471.8	1418.9	1344.6	1255.4	1149.7	1111.7	1106.7	1177.8	1116.6
42.5°	1686.5	1681.6	1656.8	1607.2	1536.2	1453.6	1319.8	1285.1	1281.8	1367.7	1295.0
45°	1899.6	1896.3	1866.6	1825.3	1775.7	1684.9	1552.7	1518.0	1498.2	1597.3	1511.4
47.5°	2094.5	2083.0	2073.0	2078.0	2049.9	1947.5	1823.6	1782.3	1780.7	1858.3	1747.6
50°	2228.3	2221.7	2256.4	2289.4	2342.3	2277.9	2130.9	2094.5	2066.4	2168.8	1993.8
52.5°	2315.9	2312.6	2381.9	2476.1	2585.1	2580.2	2449.7	2428.2	2405.1	2433.1	2213.4
55°	2350.5	2350.5	2433.1	2606.6	2798.2	2880.8	2819.7	2789.9	2709.0	2651.2	2454.6
57.5°	2309.3	2304.3	2411.7	2638.0	2930.3	3100.5	3126.9	3092.2	2965.0	2900.6	2722.2
60°	2134.2	2137.5	2264.7	2550.4	2920.4	3189.7	3359.8	3328.4	3201.2	3105.4	2946.9
62.5°	1807.1	1835.2	1969.0	2279.5	2709.0	3118.6	3493.6	3510.1	3373.0	3254.1	3146.7
65°	1357.8	1382.6	1509.8	1853.3	2324.1	2880.8	3518.4	3582.8	3472.1	3351.6	3178.1
67.5°	825.9	834.2	989.4	1248.8	1711.3	2400.1	3344.9	3485.4	3406.1	3207.8	2867.6
70°	384.9	406.3	482.3	682.2	1083.6	1767.5	2890.7	3088.9	2999.7	2753.6	2180.4
72.5°	150.3	156.9	204.8	315.5	574.8	1111.7	2157.3	2289.4	2228.3	1955.8	1300.0
75°	74.3	79.3	99.1	150.3	262.6	459.2	1318.2	1404.1	1303.3	982.8	550.1
77.5°	54.5	54.5	66.1	92.5	143.7	170.1	555.0	622.7	588.0	379.9	150.3
80°	36.3	39.6	46.3	62.8	90.9	82.6	209.8	249.4	208.1	117.3	52.9
82.5°	21.5	23.1	34.7	44.6	61.1	47.9	71.0	79.3	85.9	57.8	24.8
85°	11.6	11.6	23.1	33.0	33.0	21.5	24.8	28.1	33.0	34.7	13.2
87.5°	3.3	3.3	14.9	19.8	13.2	11.6	13.2	13.2	14.9	18.2	6.6
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°	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6	490.6
2.5°	492.2	492.2	493.9	493.9	495.5	495.5	495.5	495.5	497.2	498.9	498.9
5°	497.2	498.9	498.9	498.9	498.9	495.5	493.9	492.2	492.2	493.9	493.9
7.5°	510.4	512.1	510.4	507.1	502.2	495.5	488.9	488.9	487.3	488.9	487.3
10°	530.2	530.2	528.6	520.3	512.1	498.9	485.6	475.7	469.1	467.5	464.2
12.5°	555.0	555.0	550.1	535.2	520.3	495.5	460.9	427.8	401.4	389.8	386.5
15°	579.8	579.8	573.2	551.7	522.0	462.5	389.8	320.5	280.8	264.3	254.4
17.5°	609.5	606.2	594.7	564.9	503.8	396.4	279.2	208.1	176.7	161.9	161.9
20°	640.9	637.6	616.1	566.6	457.6	284.1	181.7	143.7	135.4	132.1	132.1
22.5°	675.6	667.3	634.3	553.4	360.1	193.3	137.1	127.2	123.9	122.2	122.2
25°	703.7	690.5	647.5	517.0	257.7	135.4	120.6	117.3	110.7	109.0	105.7
27.5°	725.2	705.3	652.5	439.4	170.1	112.3	107.4	100.8	94.2	87.5	87.5
30°	753.2	728.5	655.8	341.9	115.6	97.5	92.5	84.2	76.0	69.4	69.4
32.5°	809.4	773.1	657.4	239.5	95.8	85.9	76.0	66.1	57.8	54.5	52.9
35°	870.5	821.0	639.3	155.3	84.2	72.7	61.1	52.9	44.6	42.9	42.9
37.5°	938.2	892.0	599.6	105.7	74.3	61.1	49.6	41.3	36.3	34.7	34.7
40°	1052.2	997.7	533.5	84.2	64.4	51.2	41.3	34.7	31.4	29.7	29.7
42.5°	1215.7	1121.6	450.9	72.7	56.2	42.9	33.0	28.1	26.4	24.8	24.8
45°	1404.1	1260.3	355.1	66.1	49.6	36.3	28.1	24.8	23.1	21.5	21.5
47.5°	1620.4	1404.1	280.8	57.8	42.9	31.4	24.8	21.5	19.8	18.2	18.2
50°	1825.3	1516.4	211.4	51.2	38.0	26.4	21.5	19.8	18.2	16.5	16.5
52.5°	1993.8	1592.4	160.2	44.6	33.0	23.1	19.8	18.2	14.9	14.9	14.9
55°	2196.9	1651.8	122.2	39.6	29.7	21.5	18.2	14.9	13.2	11.6	11.6
57.5°	2373.7	1673.3	89.2	34.7	26.4	19.8	16.5	13.2	9.9	8.3	8.3
60°	2492.6	1655.1	64.4	29.7	23.1	16.5	13.2	9.9	6.6	5.0	5.0
62.5°	2576.8	1615.5	49.6	26.4	19.8	14.9	11.6	8.3	5.0	3.3	3.3
65°	2492.6	1493.3	39.6	23.1	16.5	13.2	8.3	6.6	3.3	1.7	1.7
67.5°	2155.6	1252.1	31.4	19.8	14.9	11.6	8.3	5.0	1.7	0.0	0.0
70°	1549.4	893.6	26.4	18.2	13.2	9.9	6.6	3.3	1.7	0.0	0.0
72.5°	863.9	460.9	24.8	16.5	13.2	9.9	6.6	3.3	1.7	0.0	0.0
75°	350.2	158.6	23.1	16.5	13.2	8.3	6.6	3.3	1.7	0.0	0.0
77.5°	102.4	54.5	19.8	14.9	13.2	9.9	6.6	3.3	1.7	0.0	0.0
80°	36.3	24.8	14.9	13.2	9.9	8.3	6.6	5.0	1.7	0.0	0.0
82.5°	16.5	9.9	6.6	5.0	5.0	5.0	5.0	3.3	1.7	0.0	0.0
85°	6.6	5.0	3.3	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	1.7	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)