

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: P573132

Luminaire Tested: **ARCH-S-PA2-40-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3849 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

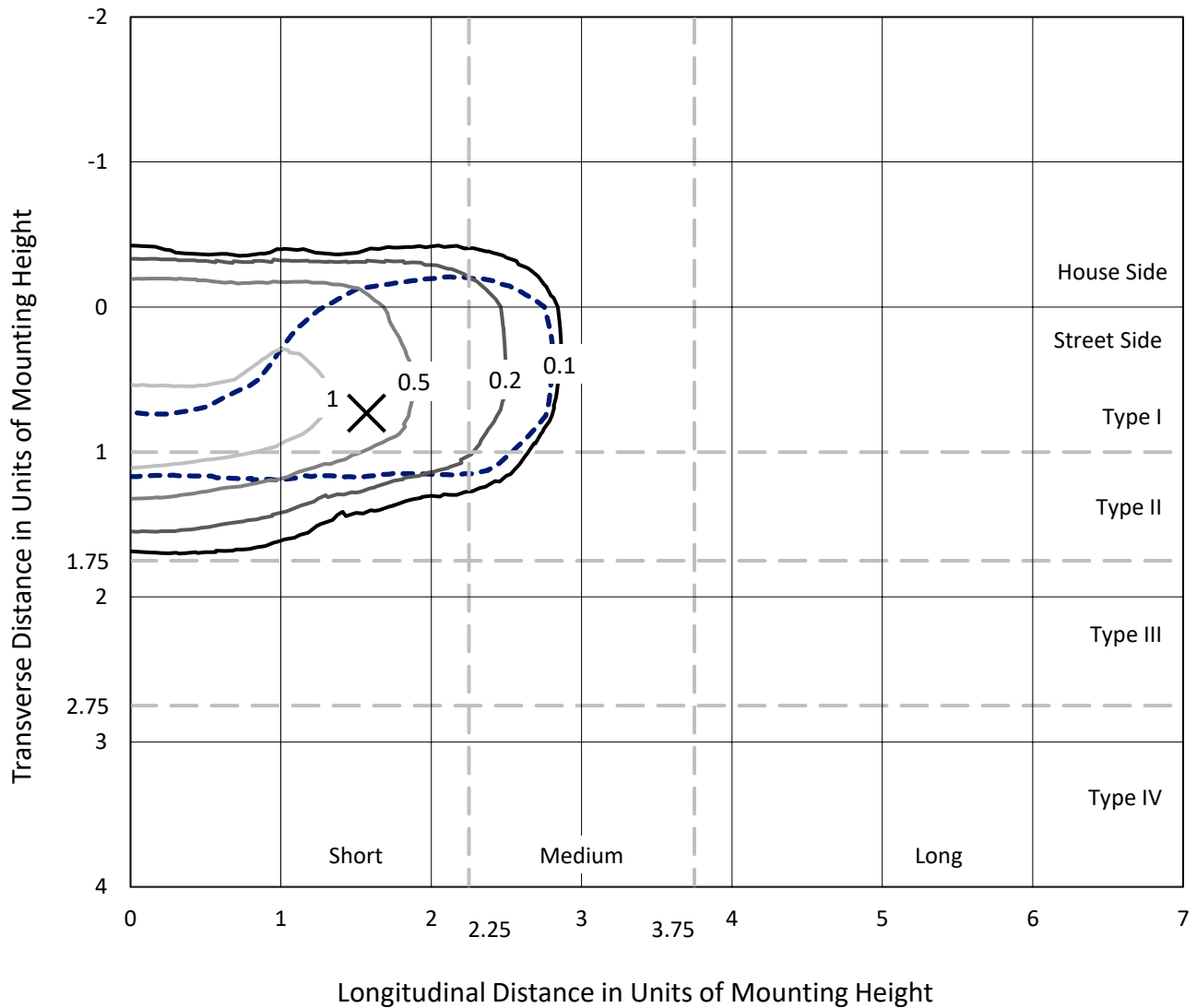
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

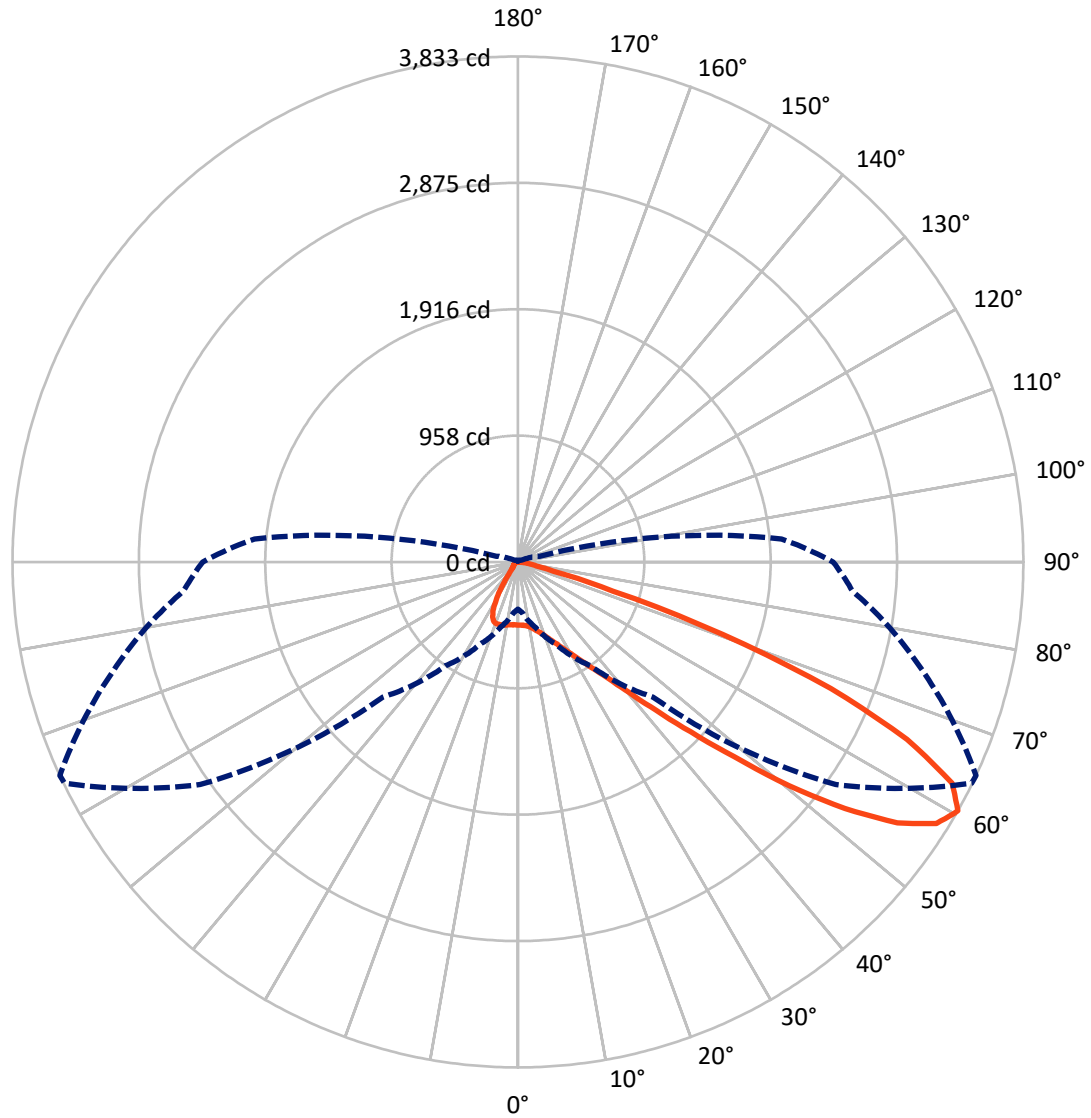
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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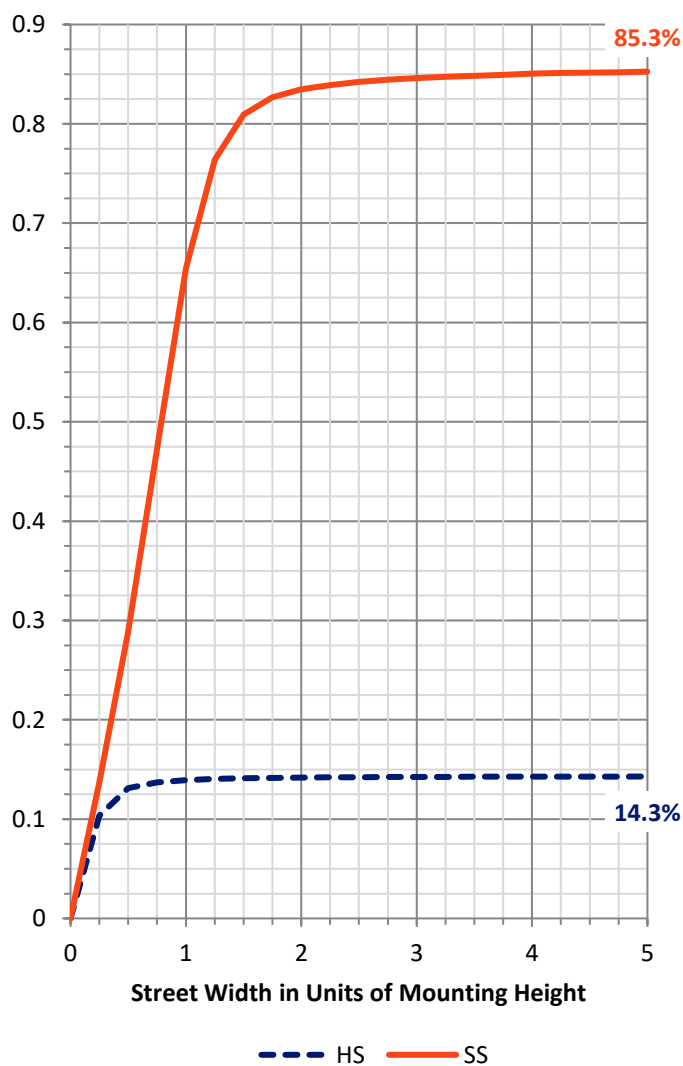
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.2	0.0	557.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	3291.8	0.0	3291.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	3849.0	0.0	3849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.2
10°-20°	128.6	3.3
20°-30°	218.4	5.7
30°-40°	450.6	11.7
40°-50°	906.3	23.5
50°-60°	1109.0	28.8
60°-70°	784.6	20.4
70°-80°	189.1	4.9
80°-90°	17.1	0.4
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°	3849.0	100.0
0°-180°	3849.0	100.0

Coefficient of Utilization

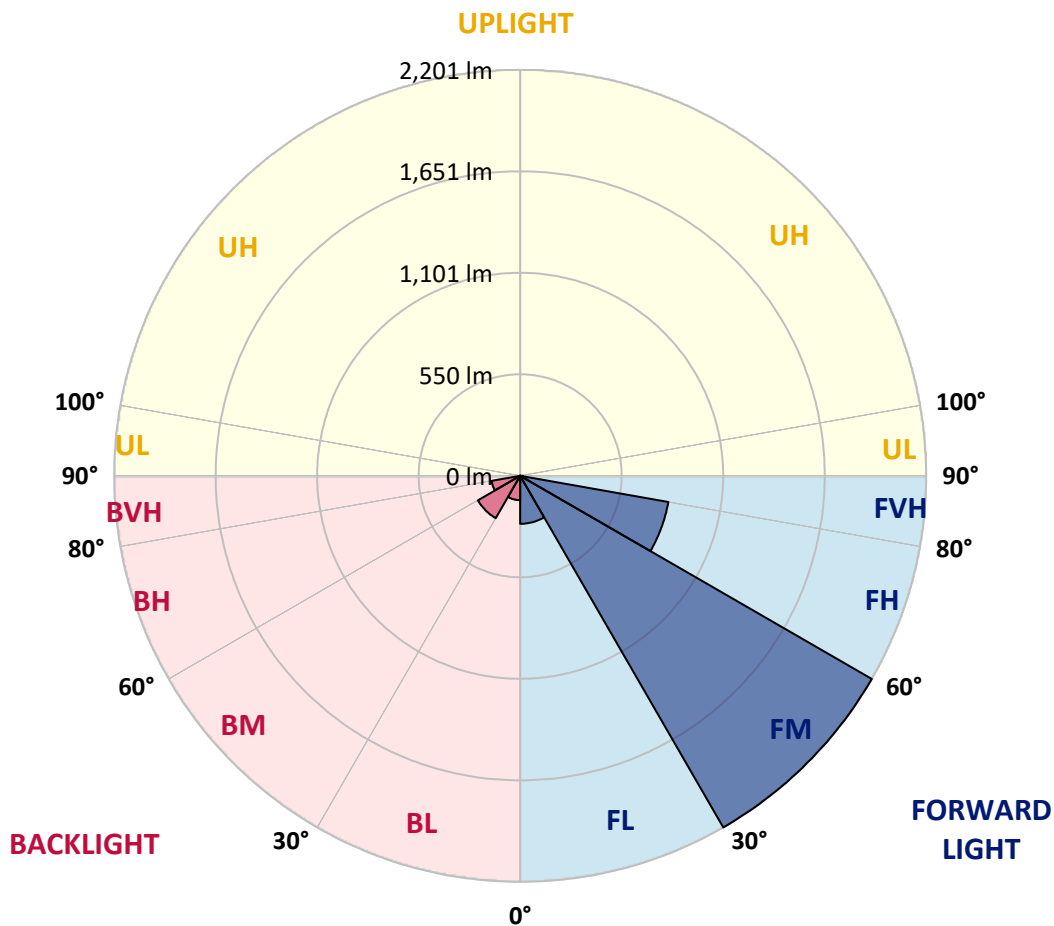


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.2	6.8			
FM (30°-60°)	2201.0	57.2			
FH (60°-80°)	815.7	21.2			G1/1800
FVH (80°-90°)	14.9	0.4			G1/100
BL (0°-30°)	132.1	3.4	B1/500		
BM (30°-60°)	265.0	6.9	B1/1000		
BH (60°-80°)	158.0	4.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5
2.5°	481.0	479.5	479.5	479.5	481.0	481.0	482.5	479.5	479.5	479.5	479.5
5°	478.0	476.5	476.5	478.0	479.5	479.5	482.5	482.5	482.5	484.0	484.0
7.5°	484.0	481.0	481.0	482.5	484.0	484.0	487.1	488.6	488.6	491.6	493.1
10°	491.6	490.1	490.1	493.1	496.2	496.2	500.7	500.7	500.7	503.8	505.3
12.5°	502.2	500.7	500.7	505.3	509.8	512.9	515.9	517.4	518.9	518.9	518.9
15°	517.4	515.9	515.9	520.5	526.5	534.1	538.7	538.7	541.7	540.2	534.1
17.5°	538.7	537.1	538.7	541.7	549.3	556.9	566.0	567.5	566.0	562.9	553.8
20°	573.6	569.0	572.0	579.6	579.6	584.2	596.3	600.9	602.4	593.3	576.6
22.5°	610.0	610.0	613.0	622.1	616.1	622.1	632.7	640.3	643.4	635.8	608.5
25°	678.3	681.3	676.7	673.7	658.5	661.6	675.2	690.4	690.4	684.3	644.9
27.5°	828.5	825.4	793.6	749.6	710.1	713.2	726.8	746.5	748.1	734.4	681.3
30°	1044.0	1047.0	984.8	884.6	798.1	775.4	790.6	813.3	816.3	793.6	728.3
32.5°	1380.8	1355.0	1239.7	1106.2	943.8	861.9	867.9	892.2	901.3	881.6	802.7
35°	1816.3	1755.6	1582.6	1417.2	1182.0	1016.6	969.6	995.4	999.9	989.3	895.2
37.5°	2075.8	2027.2	1914.9	1764.7	1488.5	1223.0	1103.1	1128.9	1124.4	1103.1	987.8
40°	2236.6	2209.3	2148.6	2078.8	1902.8	1547.7	1323.1	1301.9	1303.4	1273.1	1138.0
42.5°	2327.6	2303.4	2280.6	2298.8	2247.2	2136.5	1641.8	1544.7	1535.6	1477.9	1312.5
45°	2332.2	2295.8	2323.1	2429.3	2511.2	2658.4	2057.6	1833.0	1837.5	1741.9	1529.5
47.5°	2157.7	2128.9	2207.8	2415.7	2687.3	2999.8	2541.6	2227.5	2206.3	2018.1	1749.5
50°	1813.3	1811.7	1916.4	2210.8	2687.3	3175.9	3060.5	2690.3	2667.5	2306.4	1949.8
52.5°	1435.4	1464.3	1535.6	1814.8	2439.9	3159.2	3442.9	3168.3	3104.5	2562.8	2116.7
55°	1116.8	1106.2	1192.7	1385.4	1934.6	2870.9	3567.3	3544.6	3491.5	2790.4	2263.9
57.5°	685.9	725.3	842.1	1013.6	1408.1	2257.8	3388.3	3773.7	3741.8	3002.9	2417.2
60°	356.6	386.9	512.9	691.9	962.0	1447.6	2940.7	3826.8	3832.9	3174.3	2547.7
62.5°	224.6	223.1	280.7	485.6	619.1	813.3	2283.6	3638.7	3696.3	3306.4	2672.1
65°	168.4	169.9	192.7	321.7	420.3	424.9	1355.0	3147.0	3242.6	3341.3	2714.6
67.5°	156.3	157.8	168.4	210.9	315.6	283.7	596.3	2426.3	2559.8	3019.6	2550.7
70°	139.6	141.1	157.8	174.5	238.2	207.9	268.6	1461.2	1646.3	2191.1	2040.9
72.5°	109.3	112.3	132.0	165.4	177.5	157.8	186.6	646.4	754.1	1204.8	1168.4
75°	80.4	81.9	100.1	127.5	156.3	112.3	144.2	256.4	280.7	452.2	385.4
77.5°	56.1	56.1	69.8	95.6	130.5	78.9	103.2	138.1	141.1	168.4	110.8
80°	34.9	36.4	44.0	65.2	80.4	75.9	63.7	92.6	92.6	88.0	45.5
82.5°	19.7	21.2	30.3	44.0	54.6	51.6	41.0	53.1	54.6	56.1	25.8
85°	9.1	10.6	18.2	27.3	31.9	24.3	24.3	27.3	27.3	36.4	15.2
87.5°	1.5	1.5	9.1	12.1	10.6	12.1	12.1	15.2	15.2	18.2	7.6
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°	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5
2.5°	478.0	478.0	478.0	476.5	476.5	474.9	471.9	471.9	471.9	471.9	473.4
5°	484.0	482.5	481.0	476.5	473.4	467.4	461.3	459.8	455.2	455.2	456.7
7.5°	491.6	491.6	487.1	479.5	471.9	461.3	450.7	443.1	435.5	434.0	432.5
10°	505.3	502.2	497.7	484.0	471.9	455.2	438.5	418.8	403.6	396.0	393.0
12.5°	515.9	514.4	505.3	490.1	470.4	444.6	406.7	361.1	324.7	305.0	305.0
15°	531.1	528.0	514.4	493.1	465.8	405.1	327.8	258.0	218.5	197.3	194.2
17.5°	546.3	540.2	523.5	494.7	446.1	333.8	229.1	165.4	138.1	127.5	124.4
20°	564.5	553.8	529.6	496.2	397.6	242.8	148.7	110.8	100.1	95.6	97.1
22.5°	588.7	570.5	535.6	487.1	324.7	157.8	104.7	89.5	83.5	78.9	78.9
25°	619.1	593.3	546.3	461.3	235.2	106.2	83.5	74.4	68.3	65.2	63.7
27.5°	646.4	614.5	556.9	415.8	150.2	83.5	69.8	62.2	56.1	54.6	53.1
30°	682.8	638.8	567.5	342.9	98.6	68.3	59.2	51.6	47.0	45.5	45.5
32.5°	745.0	685.9	587.2	261.0	74.4	59.2	50.1	44.0	41.0	39.5	39.5
35°	817.9	743.5	603.9	182.1	63.7	50.1	42.5	37.9	36.4	34.9	34.9
37.5°	893.7	811.8	606.9	115.3	56.1	44.0	37.9	34.9	31.9	31.9	31.9
40°	1030.3	931.7	593.3	77.4	48.6	39.5	33.4	31.9	28.8	28.8	28.8
42.5°	1189.6	1077.3	558.4	62.2	44.0	34.9	31.9	28.8	25.8	25.8	24.3
45°	1396.0	1242.7	499.2	54.6	39.5	31.9	28.8	25.8	24.3	22.8	22.8
47.5°	1590.2	1430.9	443.1	48.6	36.4	30.3	25.8	22.8	21.2	21.2	21.2
50°	1775.3	1575.0	377.8	45.5	33.4	28.8	24.3	21.2	19.7	18.2	18.2
52.5°	1908.9	1688.8	317.1	41.0	30.3	25.8	22.8	19.7	16.7	15.2	15.2
55°	2057.6	1804.2	262.5	36.4	28.8	24.3	19.7	16.7	13.7	12.1	12.1
57.5°	2224.5	1916.4	212.4	33.4	27.3	21.2	16.7	13.7	10.6	9.1	9.1
60°	2389.9	2006.0	169.9	30.3	24.3	19.7	15.2	10.6	7.6	6.1	6.1
62.5°	2555.3	2066.7	130.5	27.3	22.8	16.7	12.1	7.6	4.6	3.0	3.0
65°	2623.5	2050.0	97.1	24.3	19.7	13.7	10.6	7.6	4.6	3.0	3.0
67.5°	2433.9	1843.6	68.3	24.3	18.2	13.7	9.1	6.1	3.0	1.5	1.5
70°	1899.7	1423.3	50.1	24.3	18.2	13.7	9.1	6.1	3.0	1.5	1.5
72.5°	1077.3	792.1	37.9	21.2	16.7	12.1	9.1	6.1	3.0	1.5	1.5
75°	383.9	254.9	28.8	19.7	15.2	10.6	9.1	6.1	3.0	1.5	1.5
77.5°	92.6	65.2	22.8	16.7	13.7	10.6	7.6	6.1	4.6	1.5	1.5
80°	37.9	27.3	18.2	13.7	10.6	9.1	7.6	6.1	3.0	1.5	1.5
82.5°	16.7	13.7	7.6	7.6	6.1	6.1	6.1	6.1	3.0	1.5	1.5
85°	7.6	6.1	3.0	3.0	1.5	1.5	1.5	3.0	3.0	1.5	1.5
87.5°	4.6	3.0	3.0	3.0	1.5	1.5	1.5	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)