

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: P573062

Luminaire Tested: **ARCH-S-PA2-30-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573062
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-PA2-30-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 320mA 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: 3556 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

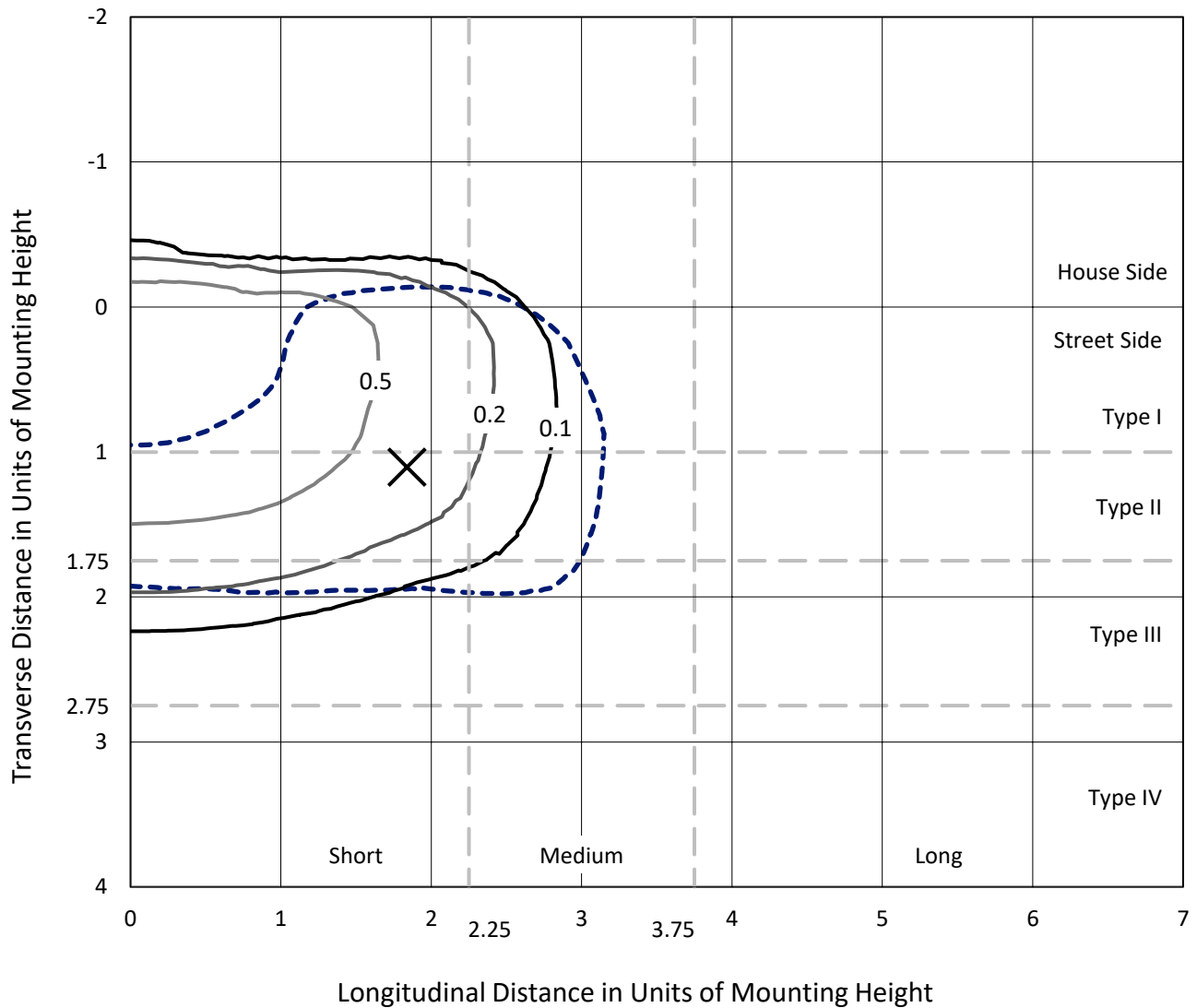
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

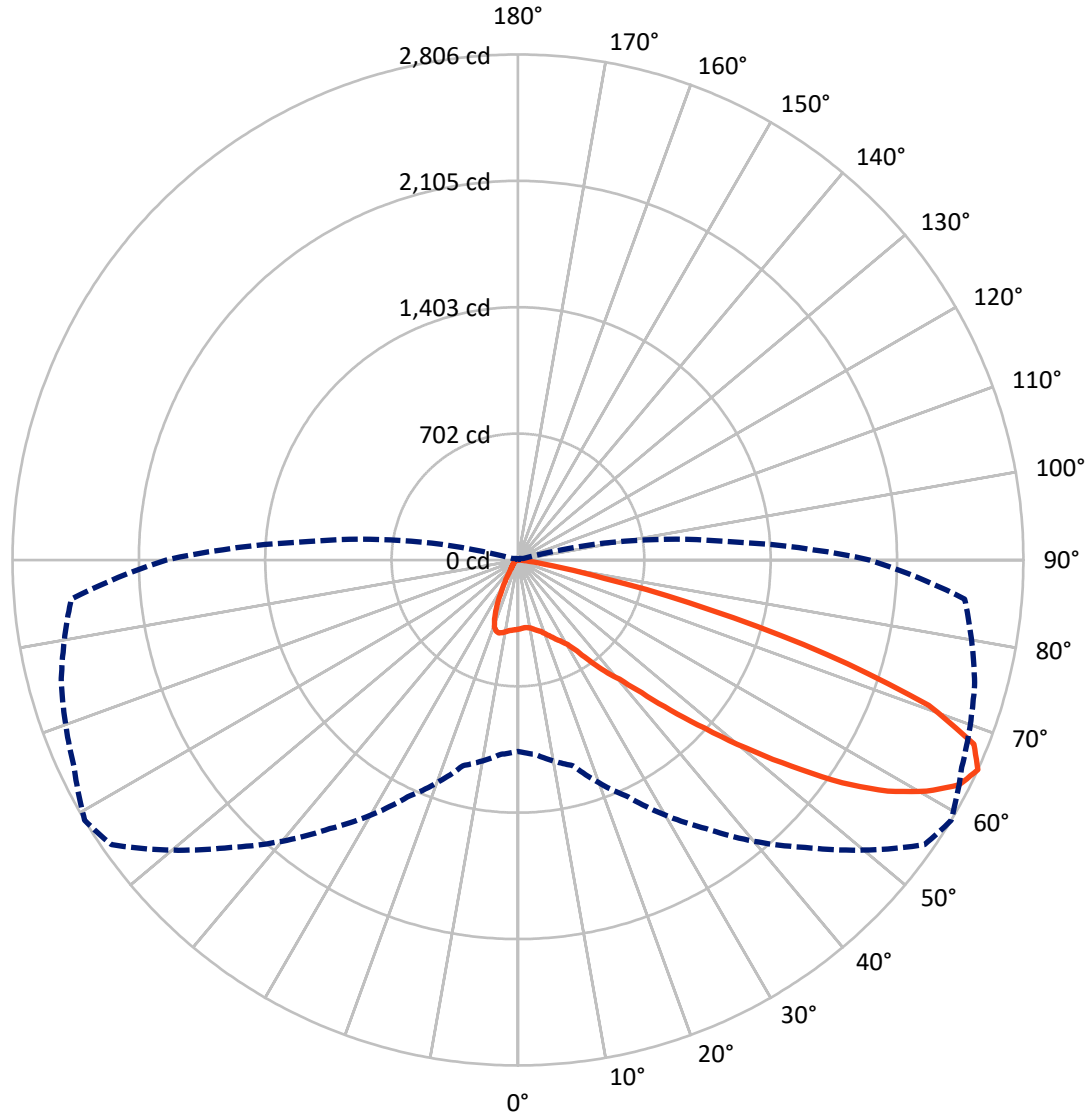
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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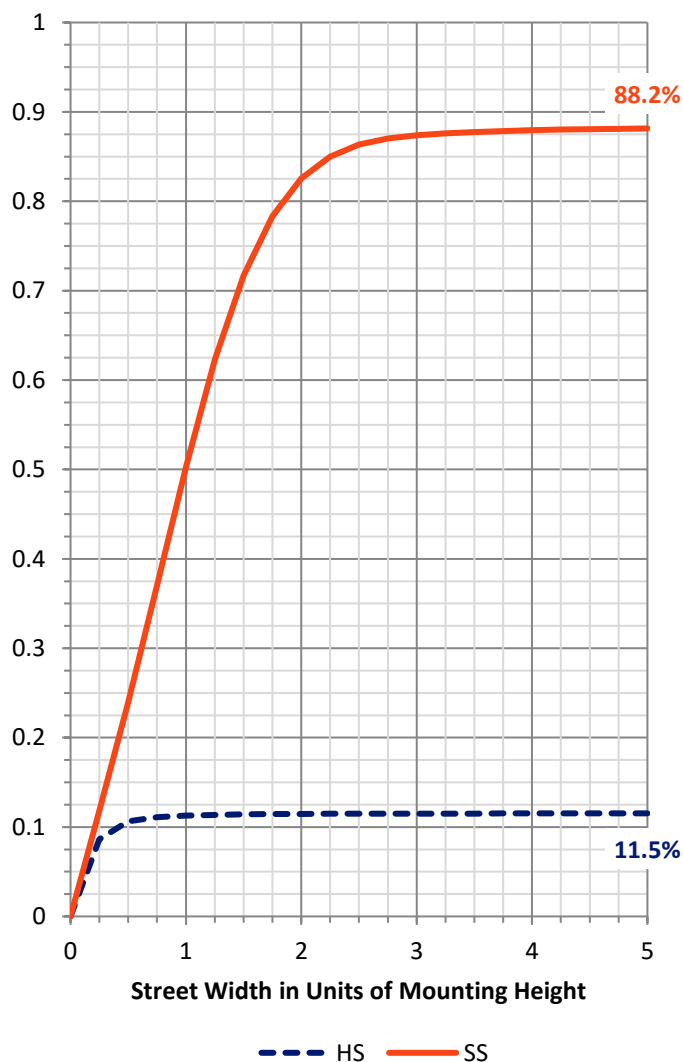
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.9	0.0	414.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	3141.2	0.0	3141.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	3556.0	0.0	3556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	1.0
10°-20°	103.2	2.9
20°-30°	175.2	4.9
30°-40°	310.4	8.7
40°-50°	585.5	16.5
50°-60°	990.6	27.9
60°-70°	1029.9	29.0
70°-80°	308.8	8.7
80°-90°	16.2	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°	3556.0	100.0
0°-180°	3556.0	100.0

Coefficient of Utilization



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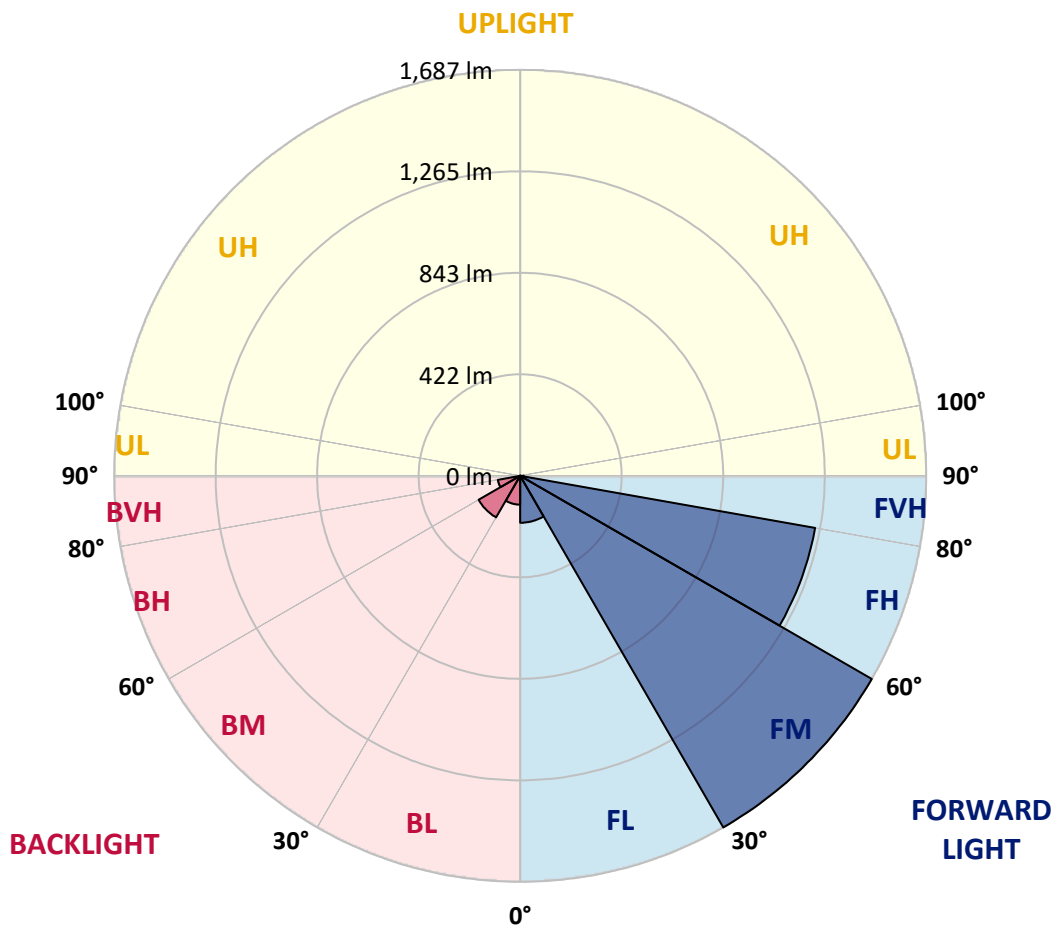
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	195.0	5.5			
FM (30°-60°)	1687.0	47.4			
FH (60°-80°)	1244.3	35.0			G1/1800
FVH (80°-90°)	14.8	0.4			G1/100
BL (0°-30°)	119.7	3.4	B1/500		
BM (30°-60°)	199.4	5.6	B0/220		
BH (60°-80°)	94.4	2.7	B0/110		G0/110
BVH (80°-90°)	1.4	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°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	373.9	372.6	372.6	375.2	376.5	377.8	380.4	380.4	380.4	383.0	384.3
5°	355.8	355.8	357.1	359.7	364.9	368.7	376.5	377.8	379.1	385.6	388.1
7.5°	344.2	344.2	345.4	350.6	357.1	366.1	376.5	379.1	383.0	392.0	398.5
10°	342.9	341.6	344.2	349.3	357.1	368.7	380.4	384.3	392.0	403.7	412.7
12.5°	346.7	345.4	348.0	353.2	361.0	372.6	388.1	394.6	403.7	419.2	432.1
15°	349.3	348.0	350.6	357.1	366.1	380.4	398.5	406.3	417.9	439.9	452.8
17.5°	357.1	355.8	357.1	362.3	371.3	386.8	410.1	417.9	437.3	461.9	476.1
20°	392.0	390.7	383.0	380.4	381.7	395.9	425.7	438.6	461.9	492.9	503.3
22.5°	464.5	459.3	445.1	421.8	406.3	411.4	445.1	459.3	490.4	525.3	533.0
25°	561.5	557.6	536.9	496.8	452.8	439.9	467.1	486.5	524.0	562.8	560.2
27.5°	671.5	663.7	644.3	588.7	529.2	486.5	494.2	511.1	552.5	593.9	580.9
30°	767.2	764.6	742.6	696.1	626.2	562.8	535.6	544.7	582.2	626.2	610.7
32.5°	855.2	847.4	829.3	785.3	720.7	656.0	601.6	601.6	632.7	684.4	661.1
35°	952.2	947.1	925.1	881.1	819.0	742.6	693.5	688.3	714.2	772.4	721.9
37.5°	1051.9	1038.9	1028.6	983.3	921.2	855.2	795.7	784.0	797.0	839.7	777.6
40°	1176.1	1176.1	1152.8	1111.4	1053.2	983.3	900.5	870.7	866.9	922.5	874.6
42.5°	1321.0	1317.1	1297.7	1258.9	1203.2	1138.6	1033.8	1006.6	1004.0	1071.3	1014.3
45°	1487.9	1485.3	1462.0	1429.7	1390.8	1319.7	1216.2	1189.0	1173.5	1251.1	1183.8
47.5°	1640.5	1631.5	1623.7	1627.6	1605.6	1525.4	1428.4	1396.0	1394.7	1455.5	1368.8
50°	1745.3	1740.2	1767.3	1793.2	1834.6	1784.2	1669.0	1640.5	1618.6	1698.8	1561.6
52.5°	1813.9	1811.3	1865.7	1939.4	2024.8	2020.9	1918.7	1901.9	1883.8	1905.8	1733.7
55°	1841.1	1841.1	1905.8	2041.6	2191.7	2256.4	2208.5	2185.2	2121.8	2076.6	1922.6
57.5°	1808.7	1804.9	1889.0	2066.2	2295.2	2428.5	2449.2	2422.0	2322.4	2271.9	2132.2
60°	1671.6	1674.2	1773.8	1997.6	2287.5	2498.3	2631.6	2607.0	2507.4	2432.4	2308.2
62.5°	1415.4	1437.4	1542.2	1785.5	2121.8	2442.7	2736.4	2749.3	2642.0	2548.8	2464.7
65°	1063.5	1082.9	1182.5	1451.7	1820.4	2256.4	2755.8	2806.3	2719.6	2625.1	2489.3
67.5°	646.9	653.4	775.0	978.1	1340.4	1879.9	2620.0	2729.9	2667.8	2512.6	2246.1
70°	301.5	318.3	377.8	534.3	848.7	1384.4	2264.2	2419.4	2349.6	2156.8	1707.8
72.5°	117.7	122.9	160.4	247.1	450.2	870.7	1689.7	1793.2	1745.3	1531.9	1018.2
75°	58.2	62.1	77.6	117.7	205.7	359.7	1032.5	1099.7	1020.8	769.8	430.8
77.5°	42.7	42.7	51.8	72.5	112.6	133.3	434.7	487.8	460.6	297.6	117.7
80°	28.5	31.1	36.2	49.2	71.2	64.7	164.3	195.4	163.0	91.9	41.4
82.5°	16.8	18.1	27.2	34.9	47.9	37.5	55.6	62.1	67.3	45.3	19.4
85°	9.1	9.1	18.1	25.9	25.9	16.8	19.4	22.0	25.9	27.2	10.4
87.5°	2.6	2.6	11.6	15.5	10.4	9.1	10.4	10.4	11.6	14.2	5.2
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°	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3	384.3
2.5°	385.6	385.6	386.8	386.8	388.1	388.1	388.1	388.1	389.4	390.7	390.7
5°	389.4	390.7	390.7	390.7	390.7	388.1	386.8	385.6	385.6	386.8	386.8
7.5°	399.8	401.1	399.8	397.2	393.3	388.1	383.0	383.0	381.7	383.0	381.7
10°	415.3	415.3	414.0	407.5	401.1	390.7	380.4	372.6	367.4	366.1	363.6
12.5°	434.7	434.7	430.8	419.2	407.5	388.1	361.0	335.1	314.4	305.3	302.8
15°	454.1	454.1	449.0	432.1	408.8	362.3	305.3	251.0	219.9	207.0	199.2
17.5°	477.4	474.8	465.8	442.5	394.6	310.5	218.7	163.0	138.4	126.8	126.8
20°	502.0	499.4	482.6	443.8	358.4	222.5	142.3	112.6	106.1	103.5	103.5
22.5°	529.2	522.7	496.8	433.4	282.1	151.4	107.4	99.6	97.0	95.7	95.7
25°	551.2	540.8	507.2	405.0	201.8	106.1	94.4	91.9	86.7	85.4	82.8
27.5°	568.0	552.5	511.1	344.2	133.3	88.0	84.1	78.9	73.7	68.6	68.6
30°	590.0	570.6	513.6	267.8	90.6	76.3	72.5	66.0	59.5	54.3	54.3
32.5°	634.0	605.5	514.9	187.6	75.0	67.3	59.5	51.8	45.3	42.7	41.4
35°	681.8	643.0	500.7	121.6	66.0	56.9	47.9	41.4	34.9	33.6	33.6
37.5°	734.9	698.7	469.7	82.8	58.2	47.9	38.8	32.3	28.5	27.2	27.2
40°	824.2	781.5	417.9	66.0	50.5	40.1	32.3	27.2	24.6	23.3	23.3
42.5°	952.2	878.5	353.2	56.9	44.0	33.6	25.9	22.0	20.7	19.4	19.4
45°	1099.7	987.2	278.2	51.8	38.8	28.5	22.0	19.4	18.1	16.8	16.8
47.5°	1269.2	1099.7	219.9	45.3	33.6	24.6	19.4	16.8	15.5	14.2	14.2
50°	1429.7	1187.7	165.6	40.1	29.8	20.7	16.8	15.5	14.2	12.9	12.9
52.5°	1561.6	1247.2	125.5	34.9	25.9	18.1	15.5	14.2	11.6	11.6	11.6
55°	1720.8	1293.8	95.7	31.1	23.3	16.8	14.2	11.6	10.4	9.1	9.1
57.5°	1859.2	1310.6	69.9	27.2	20.7	15.5	12.9	10.4	7.8	6.5	6.5
60°	1952.4	1296.4	50.5	23.3	18.1	12.9	10.4	7.8	5.2	3.9	3.9
62.5°	2018.3	1265.3	38.8	20.7	15.5	11.6	9.1	6.5	3.9	2.6	2.6
65°	1952.4	1169.6	31.1	18.1	12.9	10.4	6.5	5.2	2.6	1.3	1.3
67.5°	1688.4	980.7	24.6	15.5	11.6	9.1	6.5	3.9	1.3	0.0	0.0
70°	1213.6	700.0	20.7	14.2	10.4	7.8	5.2	2.6	1.3	0.0	0.0
72.5°	676.7	361.0	19.4	12.9	10.4	7.8	5.2	2.6	1.3	0.0	0.0
75°	274.3	124.2	18.1	12.9	10.4	6.5	5.2	2.6	1.3	0.0	0.0
77.5°	80.2	42.7	15.5	11.6	10.4	7.8	5.2	2.6	1.3	0.0	0.0
80°	28.5	19.4	11.6	10.4	7.8	6.5	5.2	3.9	1.3	0.0	0.0
82.5°	12.9	7.8	5.2	3.9	3.9	3.9	3.9	2.6	1.3	0.0	0.0
85°	5.2	3.9	2.6	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0
87.5°	3.9	2.6	1.3	1.3	1.3	1.3	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)