

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: P573060

Luminaire Tested: **ARCH-S-PA2-30-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573060
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-PA2-30-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 320mA 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: 3283 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

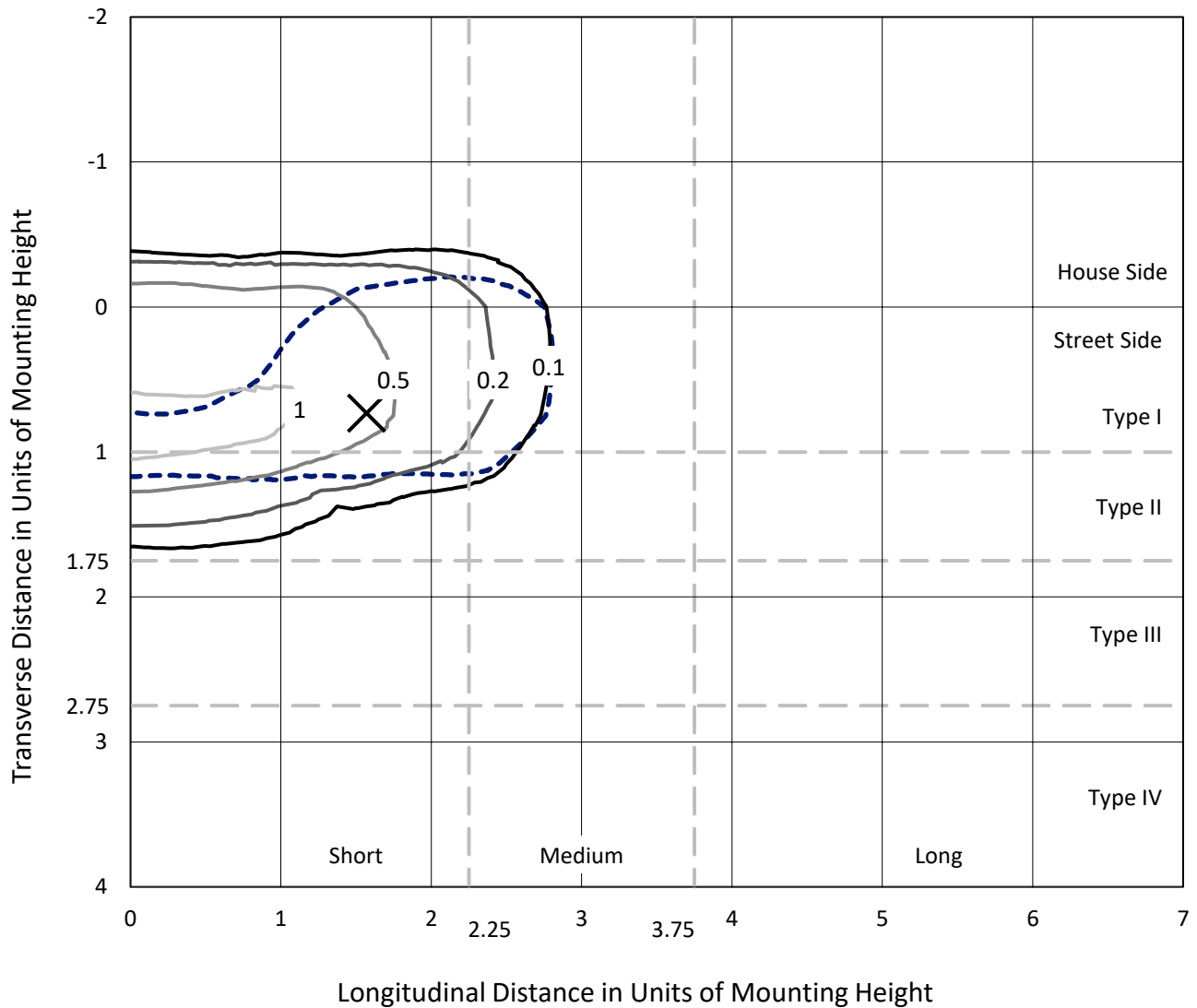
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

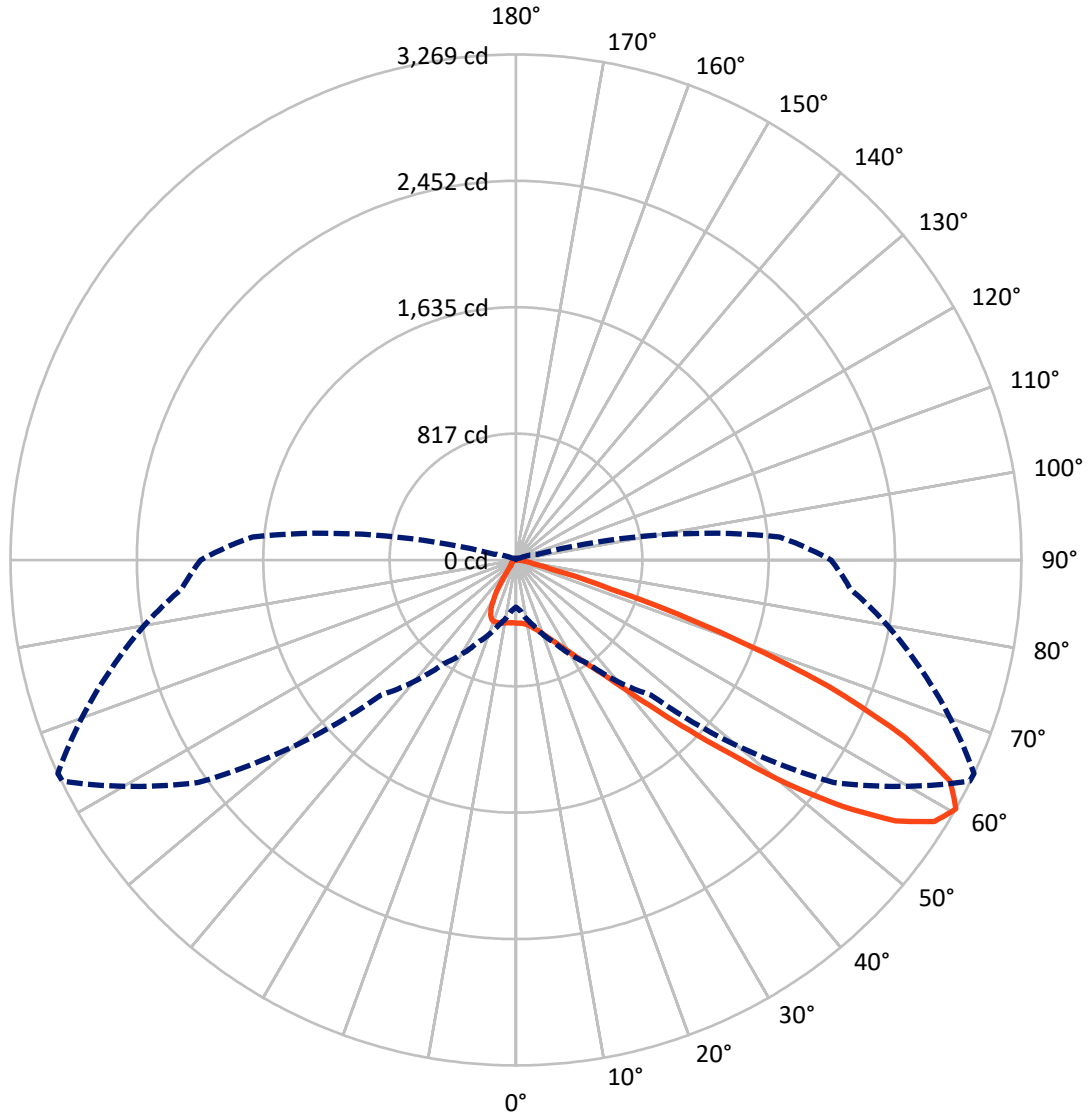
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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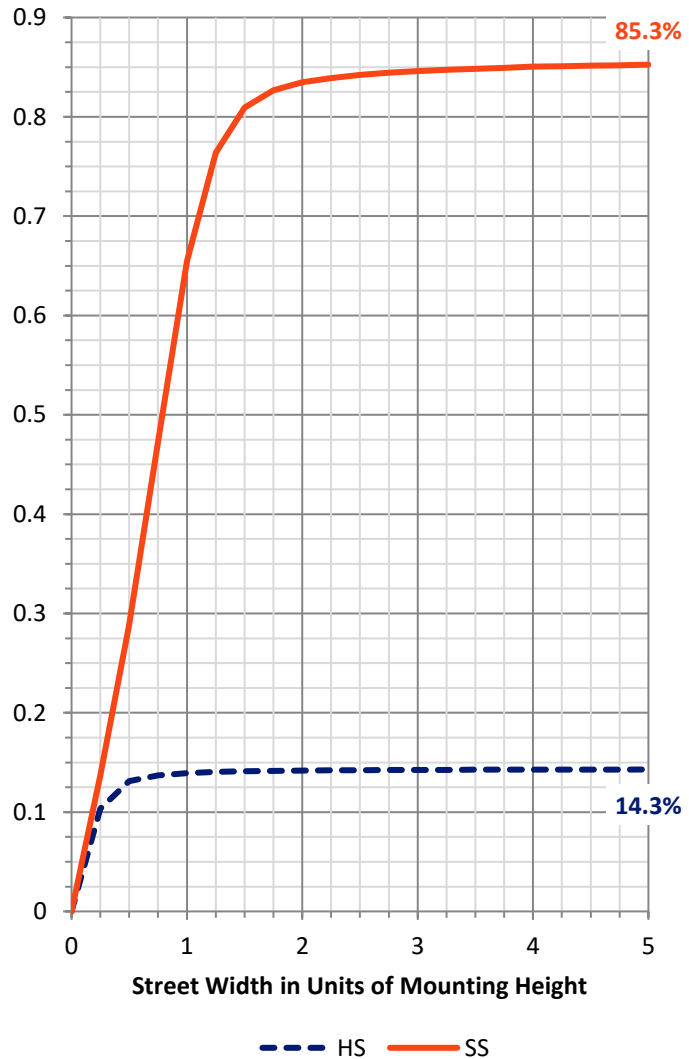
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.3	0.0	475.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	2807.7	0.0	2807.7
	% Fixture	85.5	0.0	85.5
Total	Lumens	3283.0	0.0	3283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.2
10°-20°	109.7	3.3
20°-30°	186.3	5.7
30°-40°	384.4	11.7
40°-50°	773.0	23.5
50°-60°	945.9	28.8
60°-70°	669.2	20.4
70°-80°	161.3	4.9
80°-90°	14.6	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°	3283.0	100.0
0°-180°	3283.0	100.0

Coefficient of Utilization

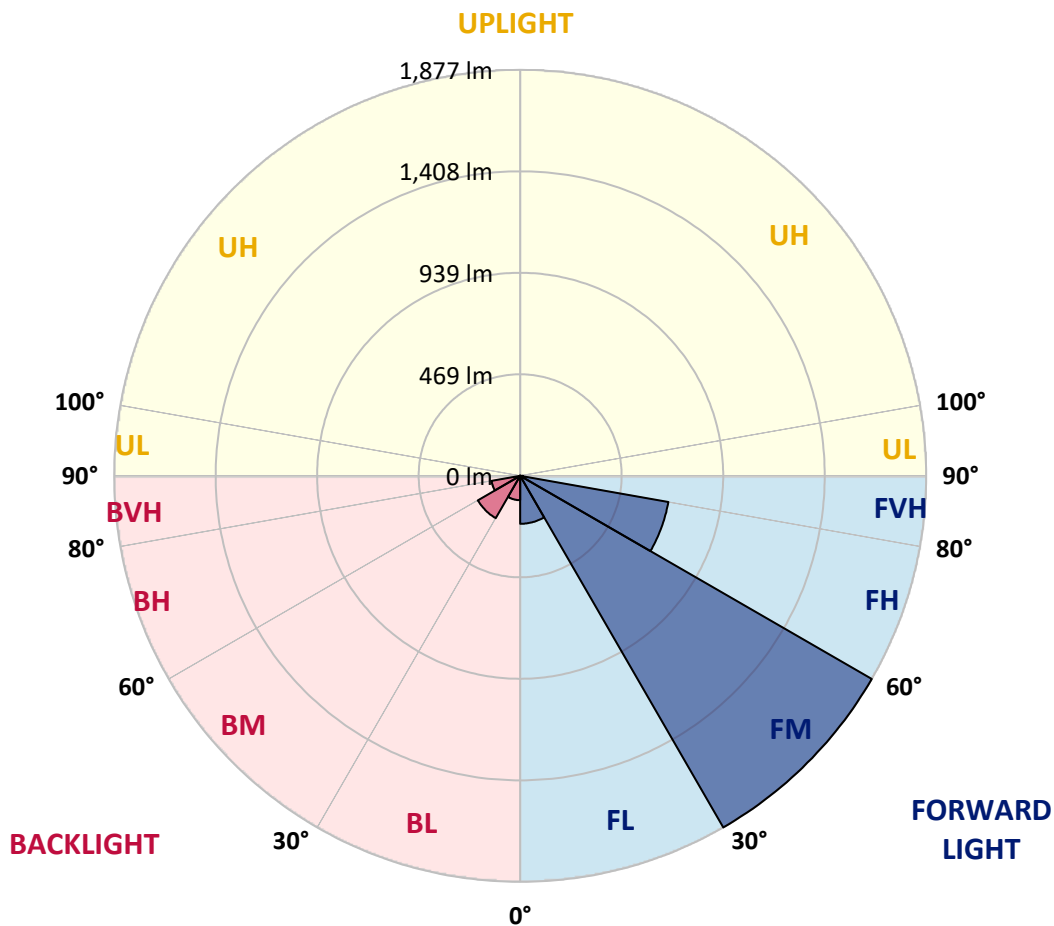


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.9	6.8			
FM (30°-60°)	1877.4	57.2			
FH (60°-80°)	695.8	21.2			G1/1800
FVH (80°-90°)	12.7	0.4			G1/100
BL (0°-30°)	112.7	3.4	B1/500		
BM (30°-60°)	226.0	6.9	B1/1000		
BH (60°-80°)	134.7	4.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	410.3	409.0	409.0	409.0	410.3	410.3	411.6	409.0	409.0	409.0	409.0
5°	407.7	406.4	406.4	407.7	409.0	409.0	411.6	411.6	411.6	412.9	412.9
7.5°	412.9	410.3	410.3	411.6	412.9	412.9	415.5	416.7	416.7	419.3	420.6
10°	419.3	418.0	418.0	420.6	423.2	423.2	427.1	427.1	427.1	429.7	431.0
12.5°	428.4	427.1	427.1	431.0	434.9	437.5	440.0	441.3	442.6	442.6	442.6
15°	441.3	440.0	440.0	443.9	449.1	455.6	459.5	459.5	462.0	460.7	455.6
17.5°	459.5	458.2	459.5	462.0	468.5	475.0	482.8	484.0	482.8	480.2	472.4
20°	489.2	485.3	487.9	494.4	494.4	498.3	508.6	512.5	513.8	506.0	491.8
22.5°	520.3	520.3	522.9	530.6	525.5	530.6	539.7	546.2	548.8	542.3	519.0
25°	578.5	581.1	577.2	574.6	561.7	564.3	575.9	588.9	588.9	583.7	550.1
27.5°	706.7	704.1	676.9	639.4	605.7	608.3	619.9	636.8	638.1	626.4	581.1
30°	890.4	893.0	840.0	754.5	680.8	661.4	674.3	693.7	696.3	676.9	621.2
32.5°	1177.8	1155.8	1057.4	943.5	805.0	735.1	740.3	761.0	768.8	752.0	684.7
35°	1549.2	1497.4	1349.9	1208.8	1008.2	867.1	827.0	849.0	852.9	843.8	763.6
37.5°	1770.5	1729.1	1633.3	1505.2	1269.6	1043.2	940.9	962.9	959.0	940.9	842.6
40°	1907.7	1884.4	1832.6	1773.1	1623.0	1320.1	1128.6	1110.5	1111.8	1085.9	970.7
42.5°	1985.4	1964.7	1945.2	1960.8	1916.8	1822.3	1400.4	1317.5	1309.8	1260.6	1119.5
45°	1989.2	1958.2	1981.5	2072.1	2142.0	2267.5	1755.0	1563.4	1567.3	1485.8	1304.6
47.5°	1840.4	1815.8	1883.1	2060.4	2292.1	2558.7	2167.9	1899.9	1881.8	1721.3	1492.3
50°	1546.6	1545.3	1634.6	1885.7	2292.1	2708.8	2610.5	2294.7	2275.3	1967.2	1663.1
52.5°	1224.4	1248.9	1309.8	1547.9	2081.1	2694.6	2936.6	2702.4	2648.0	2186.0	1805.5
55°	952.6	943.5	1017.3	1181.6	1650.2	2448.7	3042.8	3023.3	2978.0	2380.1	1931.0
57.5°	585.0	618.6	718.3	864.6	1201.1	1925.8	2890.0	3218.8	3191.6	2561.3	2061.7
60°	304.1	330.0	437.5	590.2	820.5	1234.7	2508.2	3264.1	3269.2	2707.5	2173.0
62.5°	191.5	190.3	239.4	414.2	528.0	693.7	1947.8	3103.6	3152.8	2820.1	2279.2
65°	143.7	145.0	164.4	274.4	358.5	362.4	1155.8	2684.3	2765.8	2849.9	2315.4
67.5°	133.3	134.6	143.7	179.9	269.2	242.0	508.6	2069.5	2183.4	2575.5	2175.6
70°	119.1	120.4	134.6	148.8	203.2	177.3	229.1	1246.4	1404.3	1868.9	1740.8
72.5°	93.2	95.8	112.6	141.1	151.4	134.6	159.2	551.3	643.2	1027.6	996.6
75°	68.6	69.9	85.4	108.7	133.3	95.8	123.0	218.7	239.4	385.7	328.7
77.5°	47.9	47.9	59.5	81.5	111.3	67.3	88.0	117.8	120.4	143.7	94.5
80°	29.8	31.1	37.5	55.7	68.6	64.7	54.4	78.9	78.9	75.1	38.8
82.5°	16.8	18.1	25.9	37.5	46.6	44.0	34.9	45.3	46.6	47.9	22.0
85°	7.8	9.1	15.5	23.3	27.2	20.7	20.7	23.3	23.3	31.1	12.9
87.5°	1.3	1.3	7.8	10.4	9.1	10.4	10.4	12.9	12.9	15.5	6.5
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°	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0	409.0
2.5°	407.7	407.7	407.7	406.4	406.4	405.1	402.5	402.5	402.5	402.5	403.8
5°	412.9	411.6	410.3	406.4	403.8	398.6	393.4	392.2	388.3	388.3	389.6
7.5°	419.3	419.3	415.5	409.0	402.5	393.4	384.4	377.9	371.4	370.2	368.9
10°	431.0	428.4	424.5	412.9	402.5	388.3	374.0	357.2	344.3	337.8	335.2
12.5°	440.0	438.7	431.0	418.0	401.2	379.2	346.9	308.0	277.0	260.1	260.1
15°	453.0	450.4	438.7	420.6	397.3	345.6	279.6	220.0	186.4	168.3	165.7
17.5°	465.9	460.7	446.5	421.9	380.5	284.7	195.4	141.1	117.8	108.7	106.1
20°	481.5	472.4	451.7	423.2	339.1	207.1	126.8	94.5	85.4	81.5	82.8
22.5°	502.2	486.6	456.9	415.5	277.0	134.6	89.3	76.4	71.2	67.3	67.3
25°	528.0	506.0	465.9	393.4	200.6	90.6	71.2	63.4	58.2	55.7	54.4
27.5°	551.3	524.2	475.0	354.6	128.1	71.2	59.5	53.1	47.9	46.6	45.3
30°	582.4	544.9	484.0	292.5	84.1	58.2	50.5	44.0	40.1	38.8	38.8
32.5°	635.5	585.0	500.9	222.6	63.4	50.5	42.7	37.5	34.9	33.7	33.7
35°	697.6	634.2	515.1	155.3	54.4	42.7	36.2	32.4	31.1	29.8	29.8
37.5°	762.3	692.4	517.7	98.4	47.9	37.5	32.4	29.8	27.2	27.2	27.2
40°	878.8	794.7	506.0	66.0	41.4	33.7	28.5	27.2	24.6	24.6	24.6
42.5°	1014.7	918.9	476.3	53.1	37.5	29.8	27.2	24.6	22.0	22.0	20.7
45°	1190.7	1060.0	425.8	46.6	33.7	27.2	24.6	22.0	20.7	19.4	19.4
47.5°	1356.4	1220.5	377.9	41.4	31.1	25.9	22.0	19.4	18.1	18.1	18.1
50°	1514.3	1343.4	322.3	38.8	28.5	24.6	20.7	18.1	16.8	15.5	15.5
52.5°	1628.2	1440.5	270.5	34.9	25.9	22.0	19.4	16.8	14.2	12.9	12.9
55°	1755.0	1538.9	223.9	31.1	24.6	20.7	16.8	14.2	11.6	10.4	10.4
57.5°	1897.4	1634.6	181.2	28.5	23.3	18.1	14.2	11.6	9.1	7.8	7.8
60°	2038.4	1711.0	145.0	25.9	20.7	16.8	12.9	9.1	6.5	5.2	5.2
62.5°	2179.5	1762.8	111.3	23.3	19.4	14.2	10.4	6.5	3.9	2.6	2.6
65°	2237.7	1748.5	82.8	20.7	16.8	11.6	9.1	6.5	3.9	2.6	2.6
67.5°	2076.0	1572.5	58.2	20.7	15.5	11.6	7.8	5.2	2.6	1.3	1.3
70°	1620.4	1214.0	42.7	20.7	15.5	11.6	7.8	5.2	2.6	1.3	1.3
72.5°	918.9	675.6	32.4	18.1	14.2	10.4	7.8	5.2	2.6	1.3	1.3
75°	327.4	217.4	24.6	16.8	12.9	9.1	7.8	5.2	2.6	1.3	1.3
77.5°	78.9	55.7	19.4	14.2	11.6	9.1	6.5	5.2	3.9	1.3	1.3
80°	32.4	23.3	15.5	11.6	9.1	7.8	6.5	5.2	2.6	1.3	1.3
82.5°	14.2	11.6	6.5	6.5	5.2	5.2	5.2	5.2	2.6	1.3	1.3
85°	6.5	5.2	2.6	2.6	1.3	1.3	1.3	2.6	2.6	1.3	1.3
87.5°	3.9	2.6	2.6	2.6	1.3	1.3	1.3	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)