

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: P573134

Luminaire Tested: **ARCH-S-PA2-40-727-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573134
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-PA2-40-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 4169 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

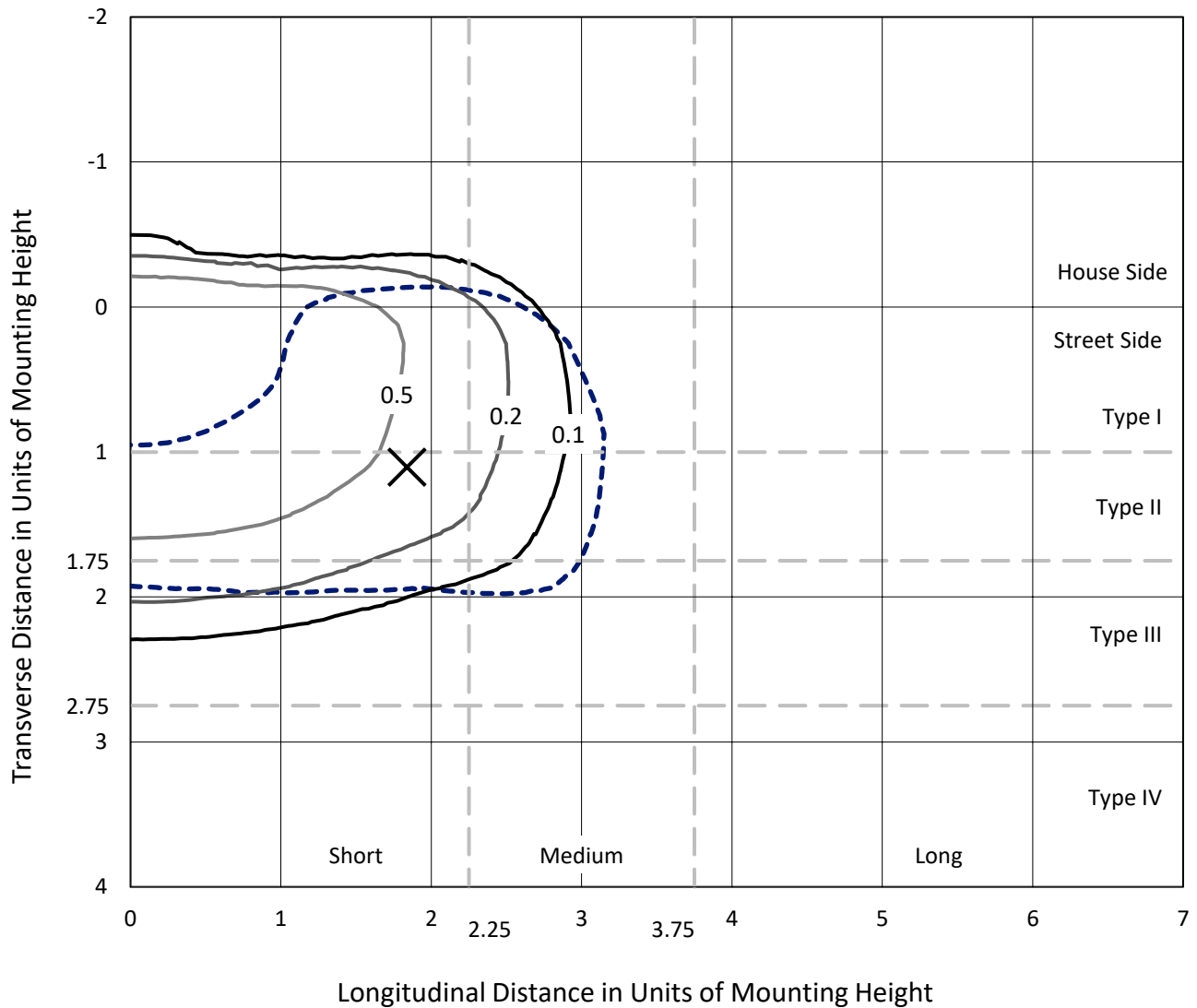
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

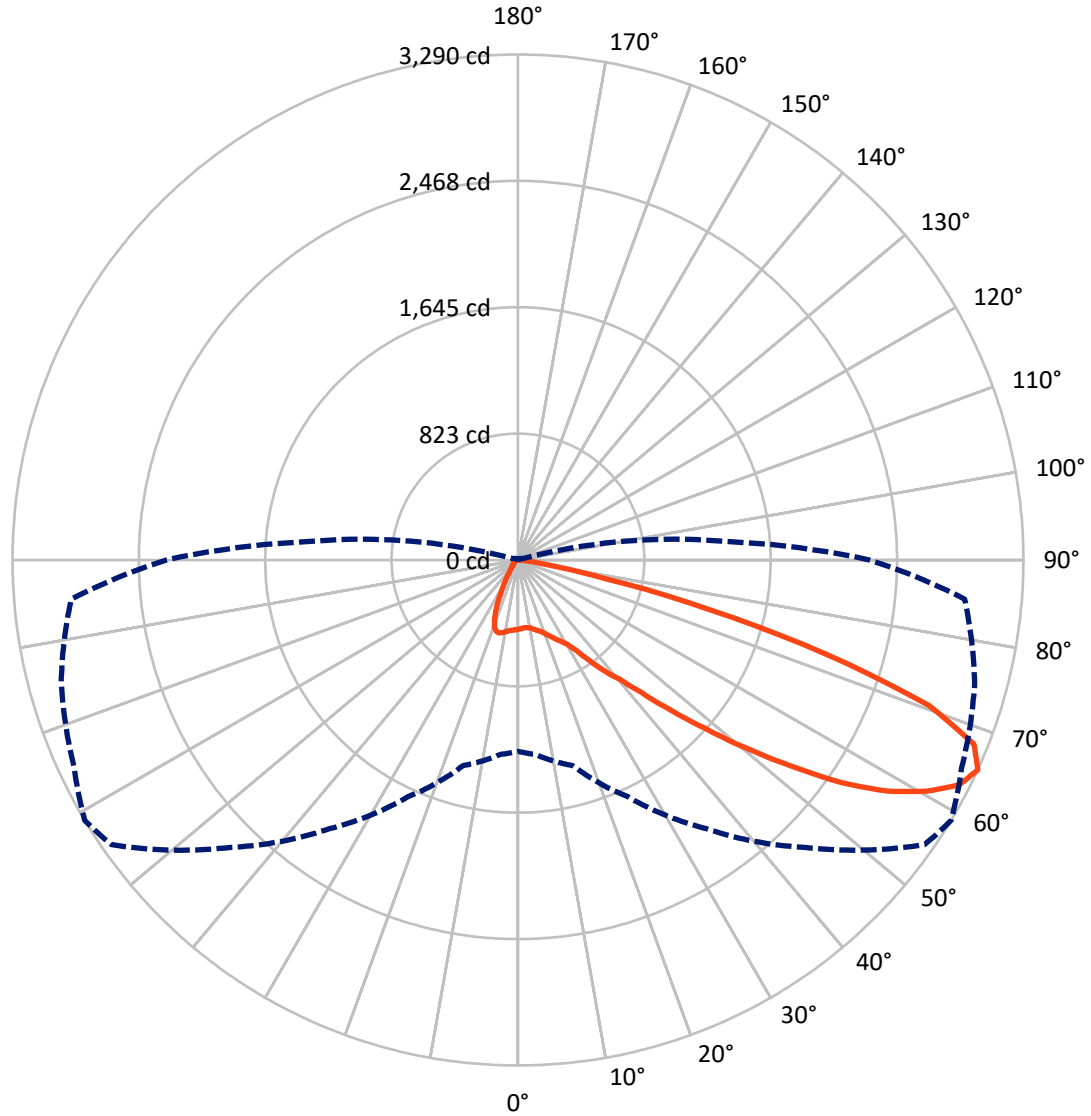
✕ Max cd
 - - - 1/2 Max cd



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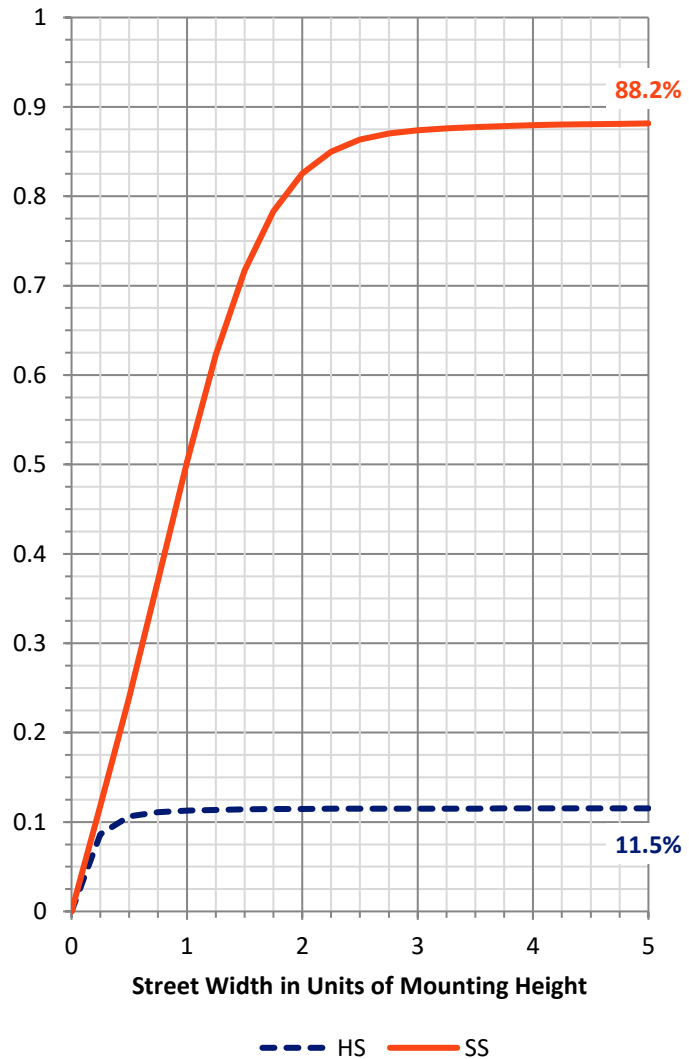
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.4	0.0	486.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	3682.6	0.0	3682.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	4169.0	0.0	4169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.0
10°-20°	120.9	2.9
20°-30°	205.4	4.9
30°-40°	363.9	8.7
40°-50°	686.4	16.5
50°-60°	1161.3	27.9
60°-70°	1207.4	29.0
70°-80°	362.1	8.7
80°-90°	19.0	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°	4169.0	100.0
0°-180°	4169.0	100.0

Coefficient of Utilization



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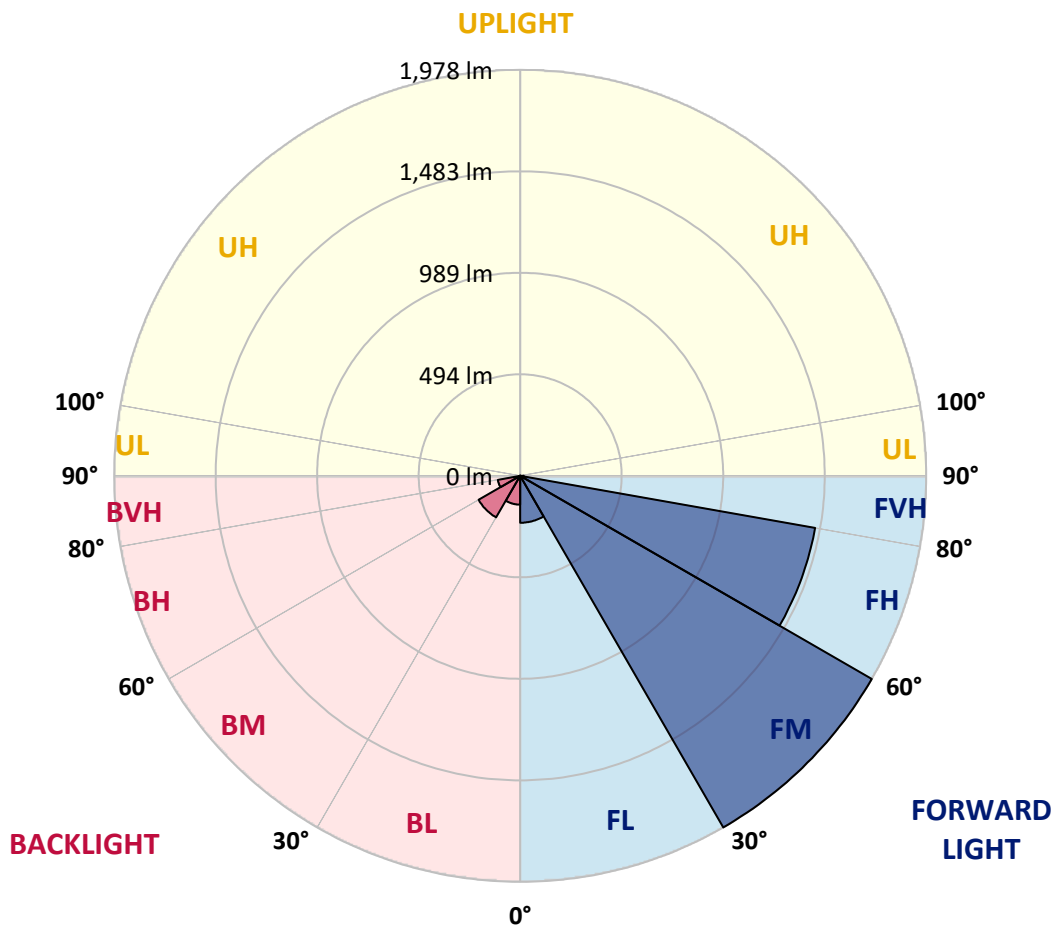
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.6	5.5			
FM (30°-60°)	1977.8	47.4			
FH (60°-80°)	1458.8	35.0			G1/1800
FVH (80°-90°)	17.4	0.4			G1/100
BL (0°-30°)	140.3	3.4	B1/500		
BM (30°-60°)	233.8	5.6	B1/1000		
BH (60°-80°)	110.7	2.7	B1/500		G1/500
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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5
2.5°	438.4	436.9	436.9	439.9	441.4	442.9	446.0	446.0	446.0	449.0	450.5
5°	417.1	417.1	418.6	421.7	427.7	432.3	441.4	442.9	444.4	452.0	455.1
7.5°	403.5	403.5	405.0	411.1	418.6	429.3	441.4	444.4	449.0	459.6	467.2
10°	402.0	400.4	403.5	409.5	418.6	432.3	446.0	450.5	459.6	473.3	483.9
12.5°	406.5	405.0	408.0	414.1	423.2	436.9	455.1	462.6	473.3	491.5	506.6
15°	409.5	408.0	411.1	418.6	429.3	446.0	467.2	476.3	489.9	515.7	530.9
17.5°	418.6	417.1	418.6	424.7	435.3	453.5	480.8	489.9	512.7	541.5	558.2
20°	459.6	458.1	449.0	446.0	447.5	464.2	499.0	514.2	541.5	577.9	590.1
22.5°	544.5	538.5	521.8	494.5	476.3	482.4	521.8	538.5	574.9	615.8	624.9
25°	658.3	653.8	629.5	582.5	530.9	515.7	547.6	570.3	614.3	659.8	656.8
27.5°	787.2	778.1	755.4	690.2	620.4	570.3	579.4	599.2	647.7	696.2	681.1
30°	899.5	896.5	870.7	816.1	734.2	659.8	628.0	638.6	682.6	734.2	715.9
32.5°	1002.6	993.5	972.3	920.7	844.9	769.0	705.3	705.3	741.7	802.4	775.1
35°	1116.4	1110.3	1084.5	1033.0	960.2	870.7	813.0	807.0	837.3	905.6	846.4
37.5°	1233.2	1218.0	1205.9	1152.8	1080.0	1002.6	932.9	919.2	934.4	984.4	911.6
40°	1378.8	1378.8	1351.5	1303.0	1234.7	1152.8	1055.7	1020.8	1016.3	1081.5	1025.4
42.5°	1548.7	1544.1	1521.4	1475.9	1410.7	1334.8	1212.0	1180.1	1177.1	1255.9	1189.2
45°	1744.4	1741.3	1714.0	1676.1	1630.6	1547.2	1425.8	1394.0	1375.8	1466.8	1387.9
47.5°	1923.4	1912.7	1903.6	1908.2	1882.4	1788.4	1674.6	1636.7	1635.2	1706.4	1604.8
50°	2046.2	2040.2	2072.0	2102.3	2150.9	2091.7	1956.7	1923.4	1897.6	1991.6	1830.8
52.5°	2126.6	2123.6	2187.3	2273.7	2373.9	2369.3	2249.5	2229.8	2208.5	2234.3	2032.6
55°	2158.5	2158.5	2234.3	2393.6	2569.5	2645.4	2589.2	2561.9	2487.6	2434.5	2254.0
57.5°	2120.5	2116.0	2214.6	2422.4	2690.9	2847.1	2871.4	2839.5	2722.7	2663.6	2499.8
60°	1959.8	1962.8	2079.6	2342.0	2681.8	2929.0	3085.3	3056.4	2939.6	2851.7	2706.0
62.5°	1659.4	1685.2	1808.1	2093.2	2487.6	2863.8	3208.1	3223.3	3097.4	2988.2	2889.6
65°	1246.8	1269.6	1386.4	1701.9	2134.2	2645.4	3230.9	3290.0	3188.4	3077.7	2918.4
67.5°	758.4	766.0	908.6	1146.7	1571.4	2204.0	3071.6	3200.5	3127.7	2945.7	2633.2
70°	353.4	373.1	442.9	626.5	995.0	1623.0	2654.5	2836.5	2754.6	2528.6	2002.2
72.5°	138.0	144.1	188.1	289.7	527.9	1020.8	1981.0	2102.3	2046.2	1795.9	1193.8
75°	68.3	72.8	91.0	138.0	241.2	421.7	1210.4	1289.3	1196.8	902.5	505.1
77.5°	50.1	50.1	60.7	84.9	132.0	156.2	509.7	571.8	540.0	348.9	138.0
80°	33.4	36.4	42.5	57.6	83.4	75.8	192.6	229.0	191.1	107.7	48.5
82.5°	19.7	21.2	31.9	41.0	56.1	44.0	65.2	72.8	78.9	53.1	22.8
85°	10.6	10.6	21.2	30.3	30.3	19.7	22.8	25.8	30.3	31.9	12.1
87.5°	3.0	3.0	13.7	18.2	12.1	10.6	12.1	12.1	13.7	16.7	6.1
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°	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5
2.5°	452.0	452.0	453.5	453.5	455.1	455.1	455.1	455.1	456.6	458.1	458.1
5°	456.6	458.1	458.1	458.1	458.1	455.1	453.5	452.0	452.0	453.5	453.5
7.5°	468.7	470.2	468.7	465.7	461.1	455.1	449.0	449.0	447.5	449.0	447.5
10°	486.9	486.9	485.4	477.8	470.2	458.1	446.0	436.9	430.8	429.3	426.2
12.5°	509.7	509.7	505.1	491.5	477.8	455.1	423.2	392.9	368.6	358.0	354.9
15°	532.4	532.4	526.3	506.6	479.3	424.7	358.0	294.3	257.9	242.7	233.6
17.5°	559.7	556.7	546.1	518.8	462.6	364.0	256.3	191.1	162.3	148.7	148.7
20°	588.5	585.5	565.8	520.3	420.2	260.9	166.9	132.0	124.4	121.3	121.3
22.5°	620.4	612.8	582.5	508.1	330.7	177.5	125.9	116.8	113.8	112.2	112.2
25°	646.2	634.0	594.6	474.8	236.6	124.4	110.7	107.7	101.6	100.1	97.1
27.5°	665.9	647.7	599.2	403.5	156.2	103.1	98.6	92.5	86.5	80.4	80.4
30°	691.7	668.9	602.2	314.0	106.2	89.5	84.9	77.4	69.8	63.7	63.7
32.5°	743.3	709.9	603.7	219.9	88.0	78.9	69.8	60.7	53.1	50.1	48.5
35°	799.4	753.9	587.0	142.6	77.4	66.7	56.1	48.5	41.0	39.4	39.4
37.5°	861.6	819.1	550.6	97.1	68.3	56.1	45.5	37.9	33.4	31.9	31.9
40°	966.2	916.2	489.9	77.4	59.2	47.0	37.9	31.9	28.8	27.3	27.3
42.5°	1116.4	1029.9	414.1	66.7	51.6	39.4	30.3	25.8	24.3	22.8	22.8
45°	1289.3	1157.3	326.1	60.7	45.5	33.4	25.8	22.8	21.2	19.7	19.7
47.5°	1488.0	1289.3	257.9	53.1	39.4	28.8	22.8	19.7	18.2	16.7	16.7
50°	1676.1	1392.5	194.2	47.0	34.9	24.3	19.7	18.2	16.7	15.2	15.2
52.5°	1830.8	1462.2	147.1	41.0	30.3	21.2	18.2	16.7	13.7	13.7	13.7
55°	2017.4	1516.8	112.2	36.4	27.3	19.7	16.7	13.7	12.1	10.6	10.6
57.5°	2179.7	1536.6	81.9	31.9	24.3	18.2	15.2	12.1	9.1	7.6	7.6
60°	2288.9	1519.9	59.2	27.3	21.2	15.2	12.1	9.1	6.1	4.6	4.6
62.5°	2366.3	1483.5	45.5	24.3	18.2	13.7	10.6	7.6	4.6	3.0	3.0
65°	2288.9	1371.2	36.4	21.2	15.2	12.1	7.6	6.1	3.0	1.5	1.5
67.5°	1979.5	1149.8	28.8	18.2	13.7	10.6	7.6	4.6	1.5	0.0	0.0
70°	1422.8	820.6	24.3	16.7	12.1	9.1	6.1	3.0	1.5	0.0	0.0
72.5°	793.3	423.2	22.8	15.2	12.1	9.1	6.1	3.0	1.5	0.0	0.0
75°	321.6	145.6	21.2	15.2	12.1	7.6	6.1	3.0	1.5	0.0	0.0
77.5°	94.0	50.1	18.2	13.7	12.1	9.1	6.1	3.0	1.5	0.0	0.0
80°	33.4	22.8	13.7	12.1	9.1	7.6	6.1	4.6	1.5	0.0	0.0
82.5°	15.2	9.1	6.1	4.6	4.6	4.6	4.6	3.0	1.5	0.0	0.0
85°	6.1	4.6	3.0	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0
87.5°	4.6	3.0	1.5	1.5	1.5	1.5	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)