

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: P573118

Luminaire Tested: **ARCH-S-PA2-30-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

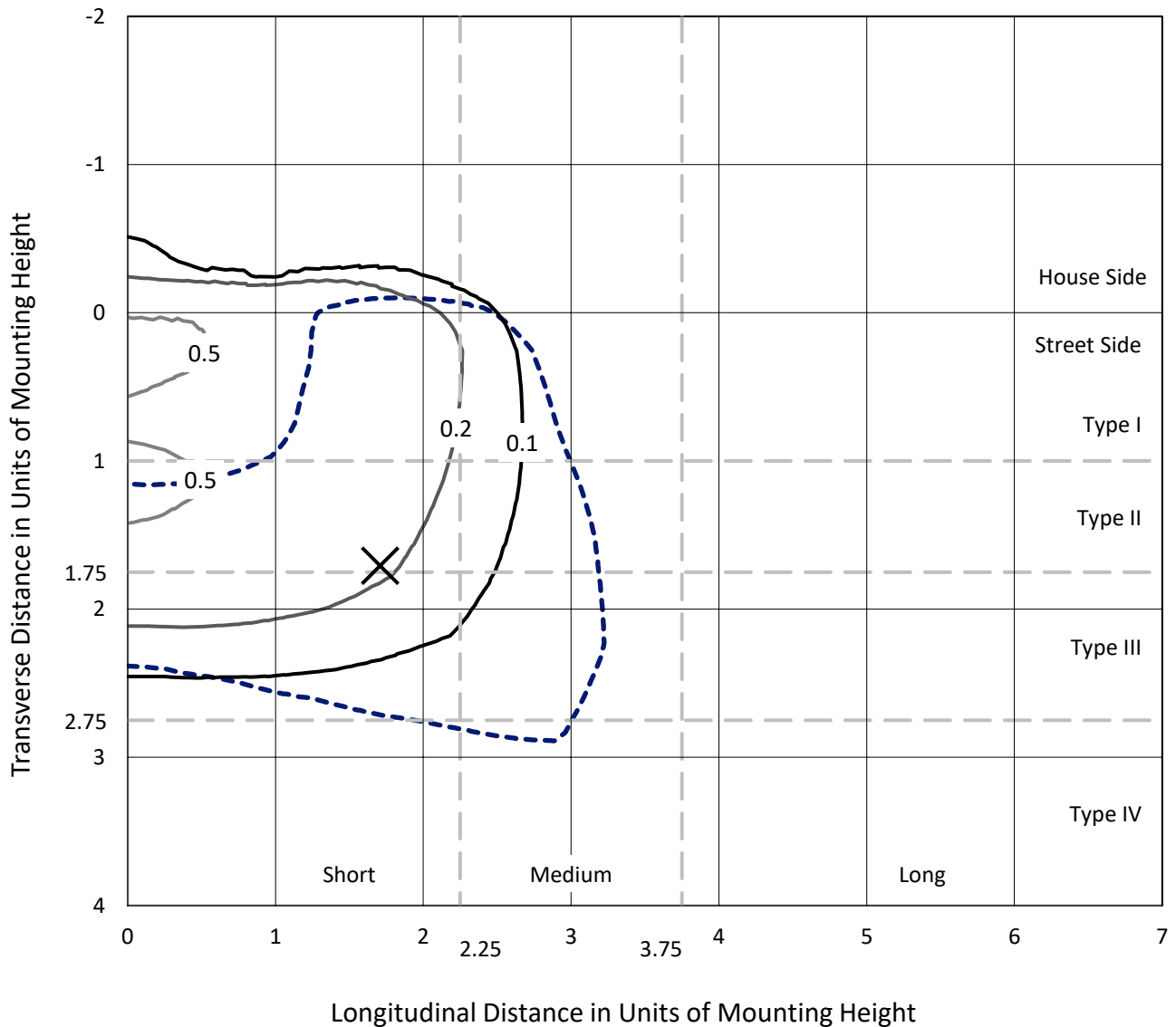
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

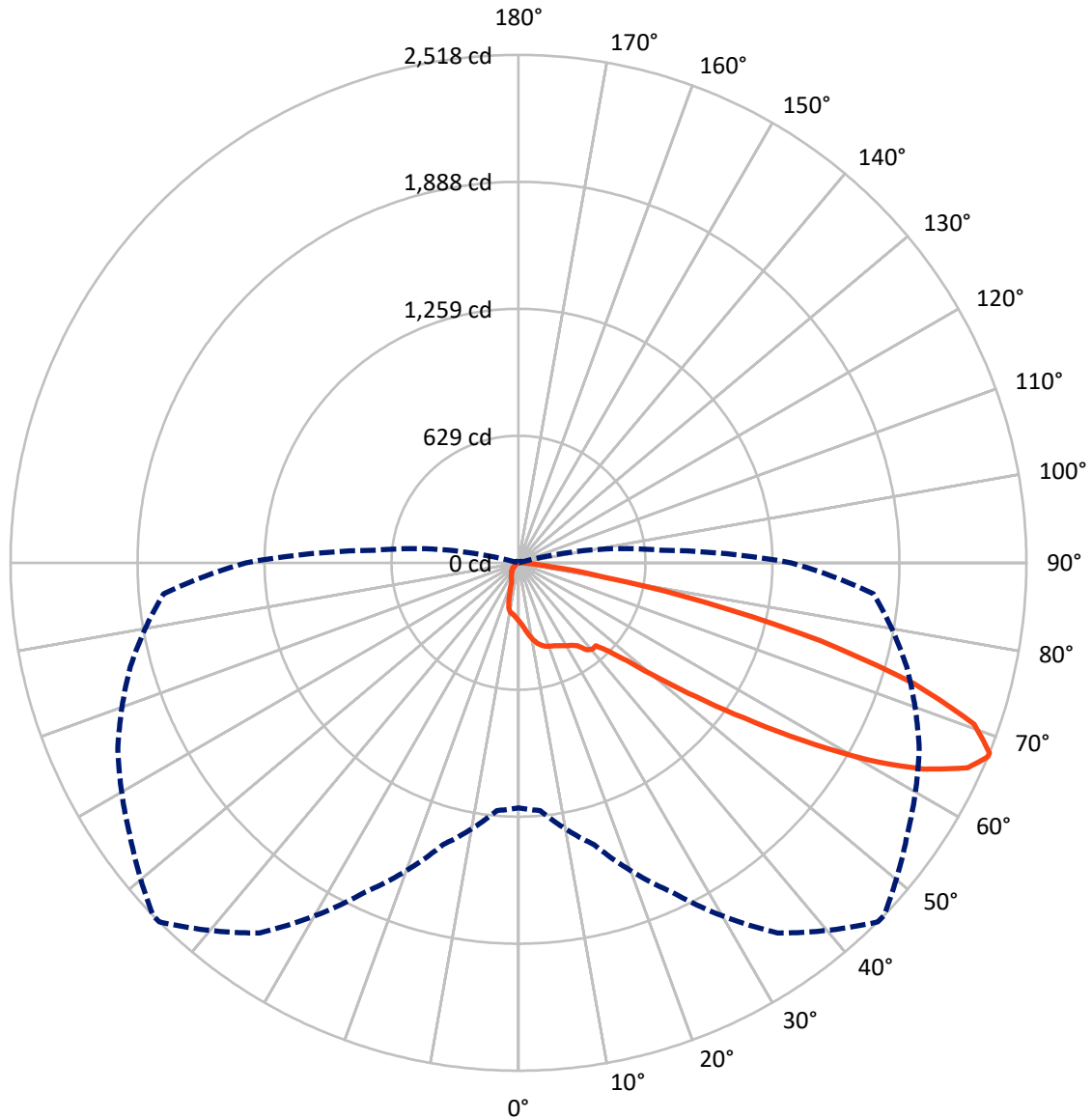
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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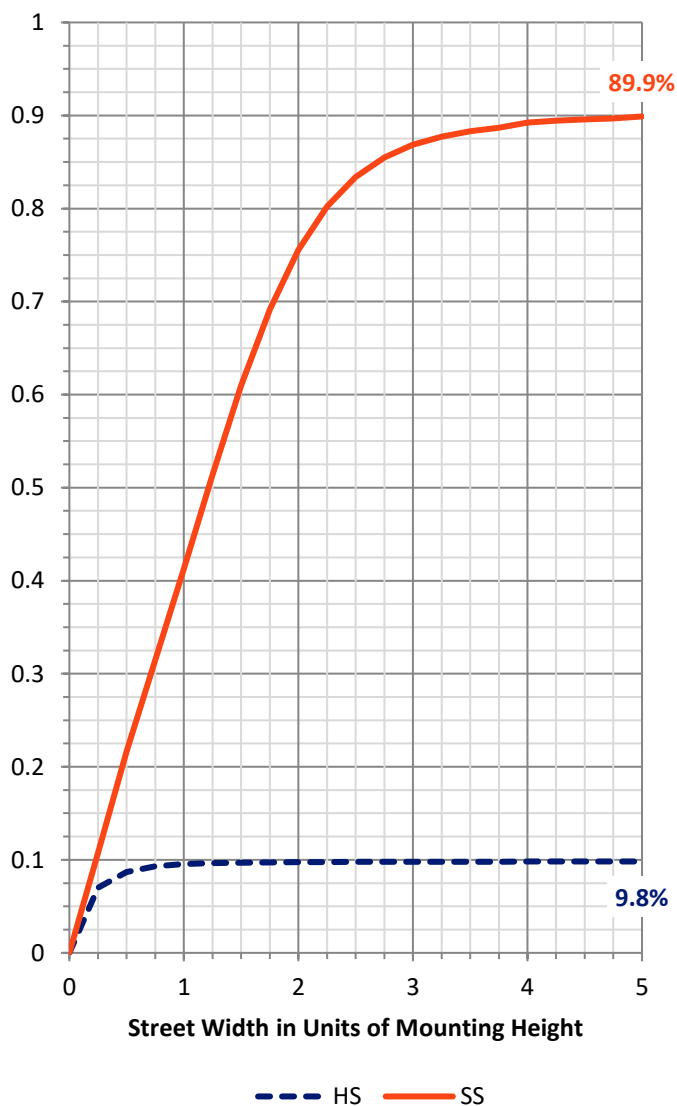
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.8	0.0	302.8
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	2753.2	0.0	2753.2
	% Fixture	90.1	0.0	90.1
Total	Lumens	3056.0	0.0	3056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.9
10°-20°	87.7	2.9
20°-30°	140.3	4.6
30°-40°	201.9	6.6
40°-50°	354.2	11.6
50°-60°	746.3	24.4
60°-70°	1032.0	33.8
70°-80°	432.0	14.1
80°-90°	32.7	1.1
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°	3056.0	100.0
0°-180°	3056.0	100.0

Coefficient of Utilization



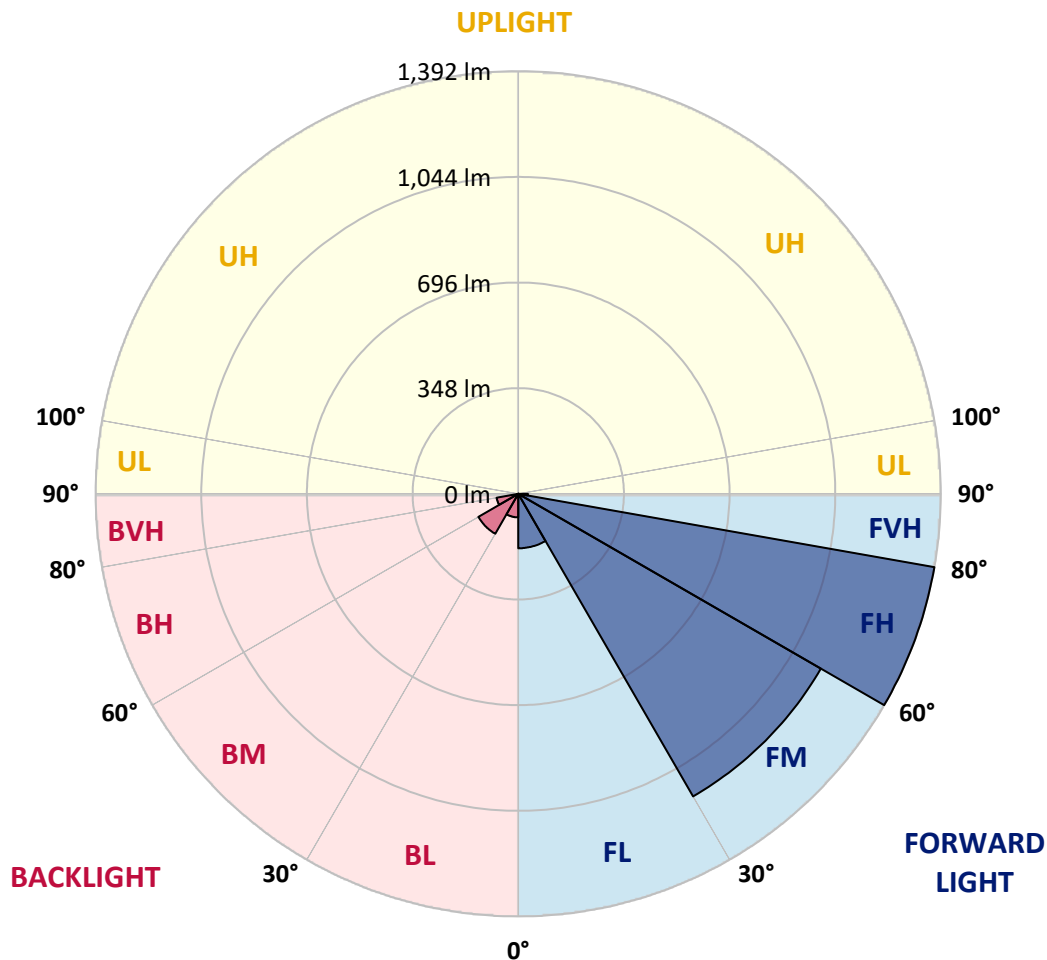
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.4	5.9			
FM (30°-60°)	1150.6	37.7			
FH (60°-80°)	1391.6	45.5			G1/1800
FVH (80°-90°)	31.6	1.0			G1/100
BL (0°-30°)	77.6	2.5	B0/110		
BM (30°-60°)	151.7	5.0	B0/220		
BH (60°-80°)	72.4	2.4	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	321.8	316.1	315.0	313.9	310.5	305.9	307.1	303.7	298.0	294.7	291.3
5°	361.3	355.6	353.4	346.6	339.8	329.7	329.7	320.6	310.5	301.4	292.4
7.5°	401.9	397.4	392.9	382.7	372.6	359.0	357.9	344.3	328.5	315.0	300.3
10°	435.8	432.4	426.7	414.3	400.8	386.1	382.7	370.3	350.0	331.9	312.7
12.5°	462.9	459.5	451.6	439.2	422.2	407.6	406.4	390.6	370.3	351.1	327.4
15°	483.2	477.6	468.5	455.0	438.0	424.5	422.2	408.7	389.5	368.0	339.8
17.5°	486.6	483.2	475.3	460.6	445.9	434.7	433.5	423.4	406.4	383.8	354.5
20°	477.6	476.4	469.6	458.4	447.1	441.4	440.3	433.5	420.0	399.7	370.3
22.5°	464.0	462.9	458.4	452.7	448.2	447.1	447.1	444.8	436.9	417.7	390.6
25°	455.0	453.8	451.6	448.2	448.2	455.0	456.1	458.4	451.6	436.9	407.6
27.5°	456.1	453.8	451.6	448.2	452.7	465.1	466.3	471.9	466.3	452.7	426.7
30°	471.9	468.5	461.7	453.8	459.5	476.4	477.6	484.3	479.8	473.0	448.2
32.5°	496.7	494.5	480.9	467.4	470.8	487.7	490.0	502.4	508.0	497.9	467.4
35°	532.9	525.0	508.0	494.5	492.2	504.6	508.0	528.4	543.0	518.2	478.7
37.5°	562.2	555.5	528.4	506.9	519.3	547.5	548.7	573.5	561.1	520.5	496.7
40°	661.6	660.4	613.0	545.3	531.7	563.4	567.9	572.4	566.7	546.4	536.3
42.5°	821.9	808.3	755.3	651.4	558.8	562.2	564.5	588.2	617.5	608.5	611.9
45°	995.7	984.5	924.6	793.7	651.4	623.2	625.4	663.8	720.3	731.6	749.6
47.5°	1156.1	1138.0	1104.1	972.0	809.5	727.1	731.6	777.9	871.6	896.4	924.6
50°	1291.5	1279.1	1247.5	1160.6	1003.7	890.8	895.3	933.7	1055.6	1095.1	1131.2
52.5°	1488.0	1471.0	1410.1	1369.4	1250.9	1104.1	1094.0	1134.6	1274.6	1300.6	1349.1
55°	1668.6	1633.6	1597.5	1580.6	1530.9	1359.3	1355.9	1363.8	1480.1	1493.6	1580.6
57.5°	1745.4	1738.6	1769.1	1825.5	1836.8	1659.6	1644.9	1614.4	1705.9	1704.7	1806.3
60°	1793.9	1793.9	1875.2	2015.2	2105.5	1980.2	1959.9	1865.1	1897.8	1898.9	1992.6
62.5°	1763.4	1771.3	1897.8	2108.9	2290.7	2252.3	2238.7	2079.6	2077.3	2051.3	2084.1
65°	1574.9	1588.5	1791.7	2057.0	2358.4	2448.7	2443.1	2262.4	2197.0	2102.1	2028.8
67°	1284.8	1309.6	1555.7	1869.6	2281.6	2516.5	2517.6	2341.5	2198.1	2017.5	1833.4
67.5°	1214.8	1232.8	1446.2	1801.8	2239.9	2517.6	2517.6	2351.6	2191.3	1991.5	1765.7
70°	774.5	779.0	1011.6	1394.3	1913.6	2395.7	2404.7	2274.9	1996.0	1612.2	1239.6
72.5°	382.7	372.6	534.0	897.5	1436.0	2050.2	2073.9	1943.0	1579.4	1053.3	654.8
75°	150.2	160.3	232.6	477.6	899.8	1545.6	1563.6	1413.5	1016.1	543.0	258.5
77.5°	66.6	66.6	99.3	214.5	473.0	948.3	957.4	862.5	536.3	223.5	79.0
80°	36.1	38.4	51.9	93.7	238.2	435.8	475.3	427.9	242.7	98.2	27.1
82.5°	18.1	19.2	31.6	53.1	119.7	164.8	173.9	181.8	111.8	61.0	11.3
85°	6.8	7.9	16.9	30.5	54.2	55.3	55.3	71.1	61.0	46.3	5.6
87.5°	1.1	2.3	7.9	12.4	21.5	19.2	16.9	22.6	33.9	29.4	3.4
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°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	289.0	286.8	282.2	278.9	276.6	274.3	272.1	272.1	271.0	271.0	272.1
5°	289.0	284.5	275.5	269.8	265.3	261.9	259.7	259.7	258.5	259.7	260.8
7.5°	294.7	287.9	275.5	265.3	259.7	254.0	251.8	250.6	250.6	251.8	250.6
10°	303.7	294.7	278.9	265.3	257.4	249.5	237.1	225.8	215.6	211.1	210.0
12.5°	315.0	303.7	284.5	268.7	256.3	229.2	195.3	173.9	160.3	153.5	151.3
15°	327.4	313.9	291.3	273.2	239.3	188.5	144.5	120.8	112.9	114.0	115.2
17.5°	340.9	326.3	301.4	271.0	205.5	140.0	106.1	100.5	103.9	107.3	107.3
20°	354.5	338.7	311.6	254.0	161.4	103.9	94.8	96.0	99.3	102.7	102.7
22.5°	372.6	355.6	321.8	224.7	119.7	90.3	90.3	92.6	94.8	98.2	98.2
25°	391.8	374.8	328.5	188.5	89.2	84.7	85.8	88.1	90.3	93.7	93.7
27.5°	412.1	395.1	327.4	145.6	77.9	77.9	79.0	82.4	84.7	88.1	88.1
30°	434.7	420.0	315.0	106.1	72.3	71.1	71.1	74.5	77.9	80.2	81.3
32.5°	453.8	441.4	293.5	80.2	67.7	65.5	64.4	65.5	68.9	71.1	72.3
35°	469.6	465.1	261.9	68.9	63.2	59.8	57.6	56.4	57.6	57.6	58.7
37.5°	499.0	500.1	224.7	64.4	59.8	55.3	50.8	47.4	45.2	44.0	42.9
40°	554.3	553.2	185.2	61.0	56.4	50.8	44.0	39.5	33.9	31.6	31.6
42.5°	632.2	615.3	141.1	57.6	53.1	46.3	37.3	30.5	24.8	23.7	23.7
45°	772.2	702.2	106.1	55.3	49.7	40.6	30.5	22.6	19.2	18.1	18.1
47.5°	926.9	802.7	84.7	51.9	46.3	36.1	23.7	18.1	14.7	14.7	14.7
50°	1097.4	898.7	71.1	48.5	40.6	30.5	19.2	14.7	13.5	12.4	13.5
52.5°	1283.6	974.3	62.1	44.0	35.0	24.8	15.8	13.5	11.3	11.3	11.3
55°	1450.7	1025.1	51.9	38.4	29.4	20.3	14.7	11.3	10.2	9.0	7.9
57.5°	1602.0	1052.2	41.8	32.7	22.6	16.9	12.4	9.0	7.9	5.6	5.6
60°	1679.9	1027.4	32.7	26.0	18.1	13.5	10.2	7.9	5.6	3.4	3.4
62.5°	1692.3	963.0	26.0	20.3	15.8	11.3	7.9	5.6	3.4	2.3	2.3
65°	1583.9	850.1	21.5	16.9	12.4	9.0	6.8	4.5	2.3	1.1	1.1
67°	1389.8	731.6	19.2	14.7	11.3	7.9	5.6	3.4	2.3	1.1	0.0
67.5°	1351.4	710.1	18.1	14.7	11.3	7.9	5.6	3.4	2.3	1.1	0.0
70°	887.4	491.1	16.9	13.5	10.2	6.8	4.5	3.4	1.1	0.0	0.0
72.5°	484.3	247.2	15.8	12.4	9.0	6.8	4.5	2.3	1.1	0.0	0.0
75°	177.2	93.7	13.5	11.3	7.9	6.8	4.5	2.3	1.1	0.0	0.0
77.5°	59.8	32.7	12.4	11.3	9.0	6.8	4.5	2.3	1.1	0.0	0.0
80°	20.3	14.7	10.2	9.0	6.8	5.6	4.5	2.3	1.1	0.0	0.0
82.5°	7.9	4.5	3.4	3.4	3.4	4.5	4.5	3.4	1.1	0.0	0.0
85°	3.4	2.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	3.4	2.3	1.1	1.1	1.1	0.0	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)