

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: P573116

Luminaire Tested: **ARCH-S-PA2-30-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573116
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-PA2-30-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 3102 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

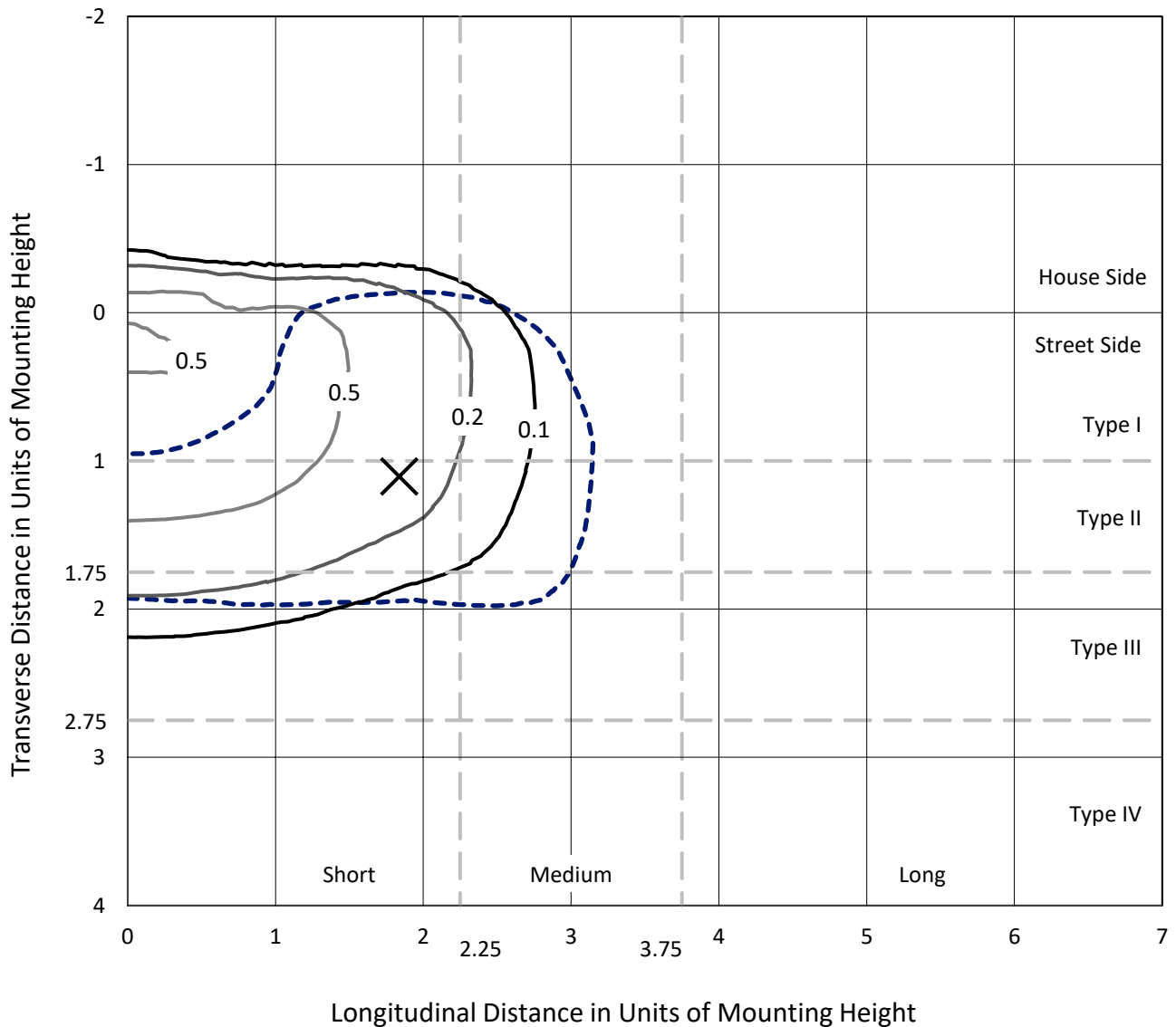
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

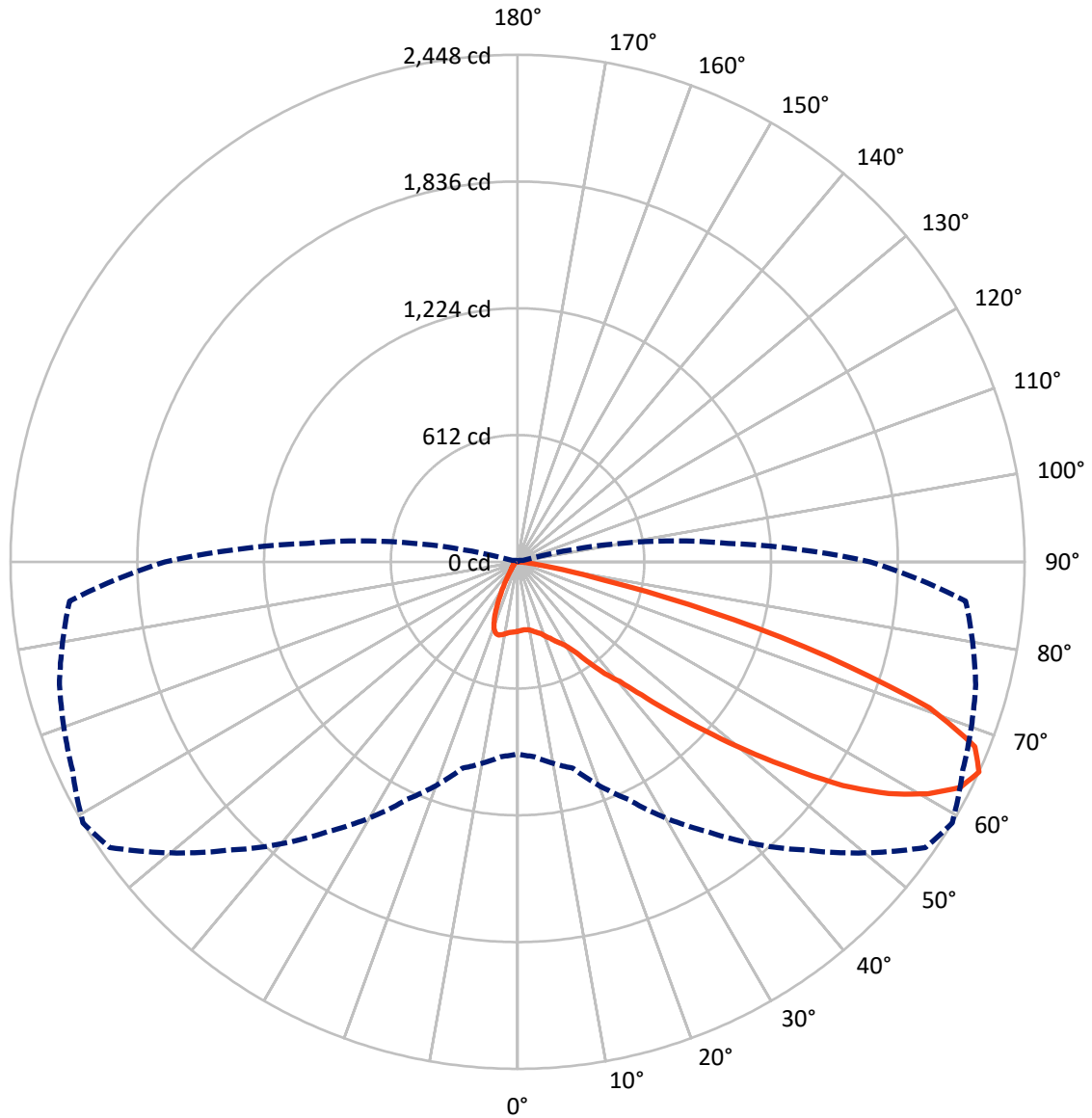
× Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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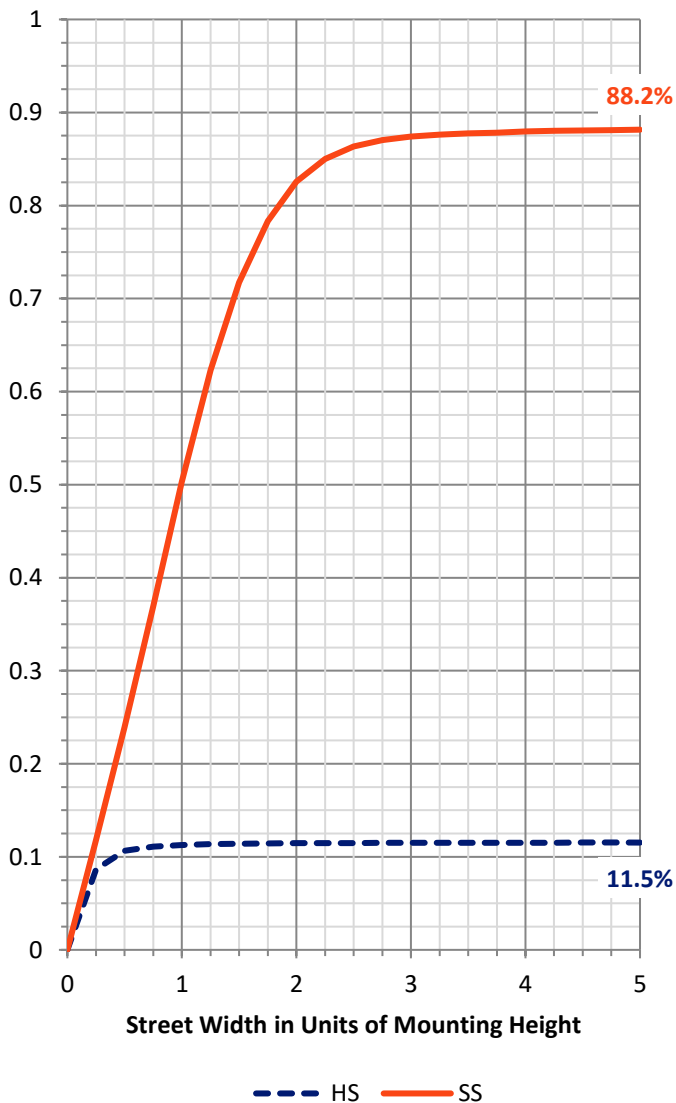
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.9	0.0	361.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	2740.1	0.0	2740.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	3102.0	0.0	3102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.0
10°-20°	90.0	2.9
20°-30°	152.8	4.9
30°-40°	270.7	8.7
40°-50°	510.7	16.5
50°-60°	864.1	27.9
60°-70°	898.4	29.0
70°-80°	269.4	8.7
80°-90°	14.1	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°	3102.0	100.0
0°-180°	3102.0	100.0

Coefficient of Utilization

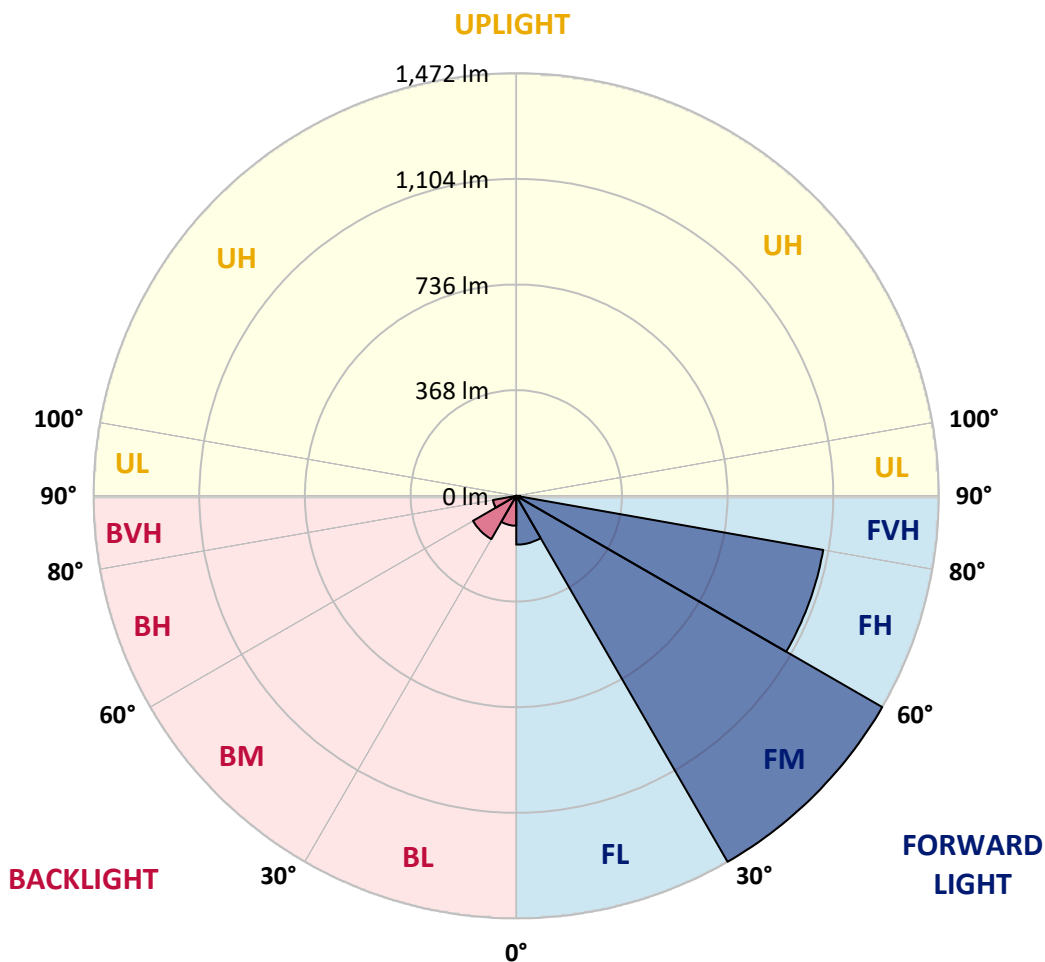


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	170.1	5.5			
FM (30°-60°)	1471.6	47.4			
FH (60°-80°)	1085.5	35.0			G1/1800
FVH (80°-90°)	12.9	0.4			G1/100
BL (0°-30°)	104.4	3.4	B0/110		
BM (30°-60°)	174.0	5.6	B0/220		
BH (60°-80°)	82.3	2.7	B0/110		G0/110
BVH (80°-90°)	1.2	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°	55°	59°	65°	75°	85°
0°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	326.2	325.0	325.0	327.3	328.4	329.6	331.8	331.8	331.8	334.1	335.2
5°	310.4	310.4	311.5	313.8	318.3	321.7	328.4	329.6	330.7	336.3	338.6
7.5°	300.2	300.2	301.3	305.9	311.5	319.4	328.4	330.7	334.1	342.0	347.6
10°	299.1	298.0	300.2	304.7	311.5	321.7	331.8	335.2	342.0	352.1	360.0
12.5°	302.5	301.3	303.6	308.1	314.9	325.0	338.6	344.2	352.1	365.7	377.0
15°	304.7	303.6	305.9	311.5	319.4	331.8	347.6	354.4	364.5	383.7	395.0
17.5°	311.5	310.4	311.5	316.0	323.9	337.5	357.8	364.5	381.5	402.9	415.3
20°	342.0	340.8	334.1	331.8	332.9	345.4	371.3	382.6	402.9	430.0	439.0
22.5°	405.2	400.7	388.2	367.9	354.4	358.9	388.2	400.7	427.7	458.2	465.0
25°	489.8	486.4	468.4	433.4	395.0	383.7	407.4	424.4	457.1	491.0	488.7
27.5°	585.8	579.0	562.1	513.5	461.6	424.4	431.1	445.8	481.9	518.0	506.8
30°	669.3	667.0	647.8	607.2	546.3	491.0	467.3	475.2	507.9	546.3	532.7
32.5°	746.0	739.3	723.4	685.1	628.6	572.2	524.8	524.8	551.9	597.0	576.7
35°	830.7	826.2	807.0	768.6	714.4	647.8	604.9	600.4	623.0	673.8	629.8
37.5°	917.6	906.3	897.3	857.8	803.6	746.0	694.1	683.9	695.2	732.5	678.3
40°	1025.9	1025.9	1005.6	969.5	918.7	857.8	785.5	759.6	756.2	804.7	763.0
42.5°	1152.3	1148.9	1132.0	1098.2	1049.6	993.2	901.8	878.1	875.8	934.5	884.8
45°	1297.9	1295.7	1275.3	1247.1	1213.3	1151.2	1060.9	1037.2	1023.7	1091.4	1032.7
47.5°	1431.1	1423.2	1416.4	1419.8	1400.6	1330.7	1246.0	1217.8	1216.7	1269.7	1194.1
50°	1522.5	1518.0	1541.7	1564.3	1600.4	1556.4	1455.9	1431.1	1411.9	1481.9	1362.3
52.5°	1582.3	1580.1	1627.5	1691.8	1766.3	1762.9	1673.8	1659.1	1643.3	1662.5	1512.4
55°	1606.0	1606.0	1662.5	1781.0	1911.9	1968.3	1926.6	1906.2	1850.9	1811.4	1677.1
57.5°	1577.8	1574.4	1647.8	1802.4	2002.2	2118.4	2136.5	2112.8	2025.9	1981.9	1860.0
60°	1458.2	1460.4	1547.3	1742.6	1995.4	2179.4	2295.6	2274.2	2187.3	2121.8	2013.5
62.5°	1234.7	1253.9	1345.3	1557.5	1850.9	2130.8	2387.0	2398.3	2304.7	2223.4	2150.0
65°	927.7	944.7	1031.6	1266.3	1588.0	1968.3	2404.0	2448.0	2372.4	2290.0	2171.5
67.5°	564.3	570.0	676.0	853.2	1169.3	1639.9	2285.5	2381.4	2327.2	2191.8	1959.3
70°	263.0	277.6	329.6	466.1	740.4	1207.6	1975.1	2110.5	2049.6	1881.4	1489.8
72.5°	102.7	107.2	139.9	215.6	392.8	759.6	1474.0	1564.3	1522.5	1336.3	888.2
75°	50.8	54.2	67.7	102.7	179.5	313.8	900.6	959.3	890.5	671.5	375.8
77.5°	37.2	37.2	45.1	63.2	98.2	116.2	379.2	425.5	401.8	259.6	102.7
80°	24.8	27.1	31.6	42.9	62.1	56.4	143.3	170.4	142.2	80.1	36.1
82.5°	14.7	15.8	23.7	30.5	41.8	32.7	48.5	54.2	58.7	39.5	16.9
85°	7.9	7.9	15.8	22.6	22.6	14.7	16.9	19.2	22.6	23.7	9.0
87.5°	2.3	2.3	10.2	13.5	9.0	7.9	9.0	9.0	10.2	12.4	4.5
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°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	336.3	336.3	337.5	337.5	338.6	338.6	338.6	338.6	339.7	340.8	340.8
5°	339.7	340.8	340.8	340.8	340.8	338.6	337.5	336.3	336.3	337.5	337.5
7.5°	348.7	349.9	348.7	346.5	343.1	338.6	334.1	334.1	332.9	334.1	332.9
10°	362.3	362.3	361.2	355.5	349.9	340.8	331.8	325.0	320.5	319.4	317.1
12.5°	379.2	379.2	375.8	365.7	355.5	338.6	314.9	292.3	274.3	266.4	264.1
15°	396.1	396.1	391.6	377.0	356.6	316.0	266.4	219.0	191.9	180.6	173.8
17.5°	416.5	414.2	406.3	386.0	344.2	270.9	190.7	142.2	120.8	110.6	110.6
20°	437.9	435.6	421.0	387.1	312.6	194.1	124.1	98.2	92.5	90.3	90.3
22.5°	461.6	456.0	433.4	378.1	246.0	132.0	93.7	86.9	84.6	83.5	83.5
25°	480.8	471.8	442.4	353.3	176.1	92.5	82.4	80.1	75.6	74.5	72.2
27.5°	495.5	481.9	445.8	300.2	116.2	76.7	73.4	68.8	64.3	59.8	59.8
30°	514.7	497.7	448.1	233.6	79.0	66.6	63.2	57.6	51.9	47.4	47.4
32.5°	553.0	528.2	449.2	163.7	65.5	58.7	51.9	45.1	39.5	37.2	36.1
35°	594.8	560.9	436.8	106.1	57.6	49.7	41.8	36.1	30.5	29.3	29.3
37.5°	641.1	609.5	409.7	72.2	50.8	41.8	33.9	28.2	24.8	23.7	23.7
40°	718.9	681.7	364.5	57.6	44.0	35.0	28.2	23.7	21.4	20.3	20.3
42.5°	830.7	766.3	308.1	49.7	38.4	29.3	22.6	19.2	18.1	16.9	16.9
45°	959.3	861.1	242.7	45.1	33.9	24.8	19.2	16.9	15.8	14.7	14.7
47.5°	1107.2	959.3	191.9	39.5	29.3	21.4	16.9	14.7	13.5	12.4	12.4
50°	1247.1	1036.1	144.5	35.0	26.0	18.1	14.7	13.5	12.4	11.3	11.3
52.5°	1362.3	1088.0	109.5	30.5	22.6	15.8	13.5	12.4	10.2	10.2	10.2
55°	1501.1	1128.6	83.5	27.1	20.3	14.7	12.4	10.2	9.0	7.9	7.9
57.5°	1621.8	1143.3	60.9	23.7	18.1	13.5	11.3	9.0	6.8	5.6	5.6
60°	1703.1	1130.9	44.0	20.3	15.8	11.3	9.0	6.8	4.5	3.4	3.4
62.5°	1760.7	1103.8	33.9	18.1	13.5	10.2	7.9	5.6	3.4	2.3	2.3
65°	1703.1	1020.3	27.1	15.8	11.3	9.0	5.6	4.5	2.3	1.1	1.1
67.5°	1472.9	855.5	21.4	13.5	10.2	7.9	5.6	3.4	1.1	0.0	0.0
70°	1058.7	610.6	18.1	12.4	9.0	6.8	4.5	2.3	1.1	0.0	0.0
72.5°	590.3	314.9	16.9	11.3	9.0	6.8	4.5	2.3	1.1	0.0	0.0
75°	239.3	108.3	15.8	11.3	9.0	5.6	4.5	2.3	1.1	0.0	0.0
77.5°	70.0	37.2	13.5	10.2	9.0	6.8	4.5	2.3	1.1	0.0	0.0
80°	24.8	16.9	10.2	9.0	6.8	5.6	4.5	3.4	1.1	0.0	0.0
82.5°	11.3	6.8	4.5	3.4	3.4	3.4	3.4	2.3	1.1	0.0	0.0
85°	4.5	3.4	2.3	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	1.1	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)