

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: P397734

Luminaire Tested: **ARCH-S-PA1-30-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-830-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2912 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G1

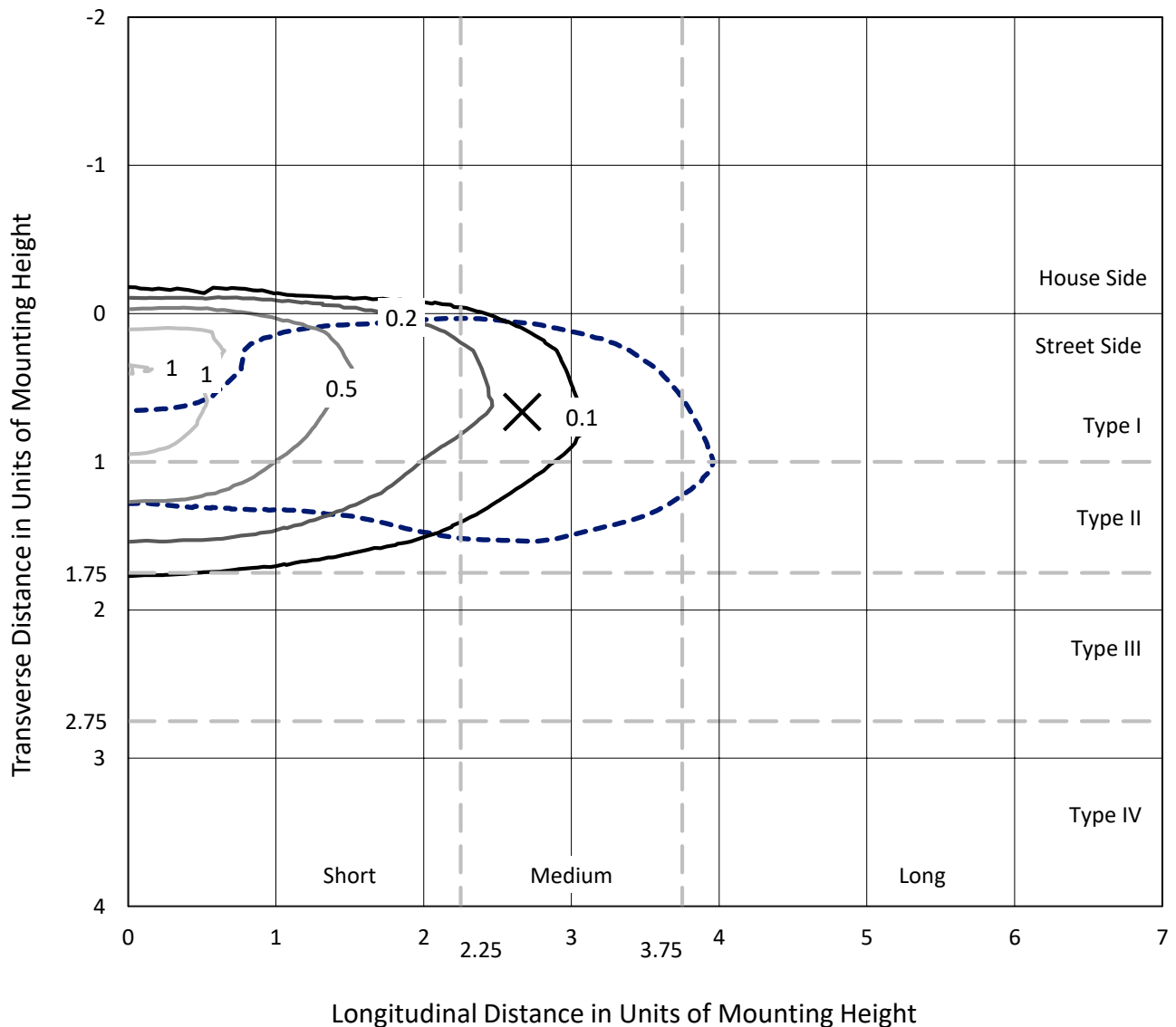
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

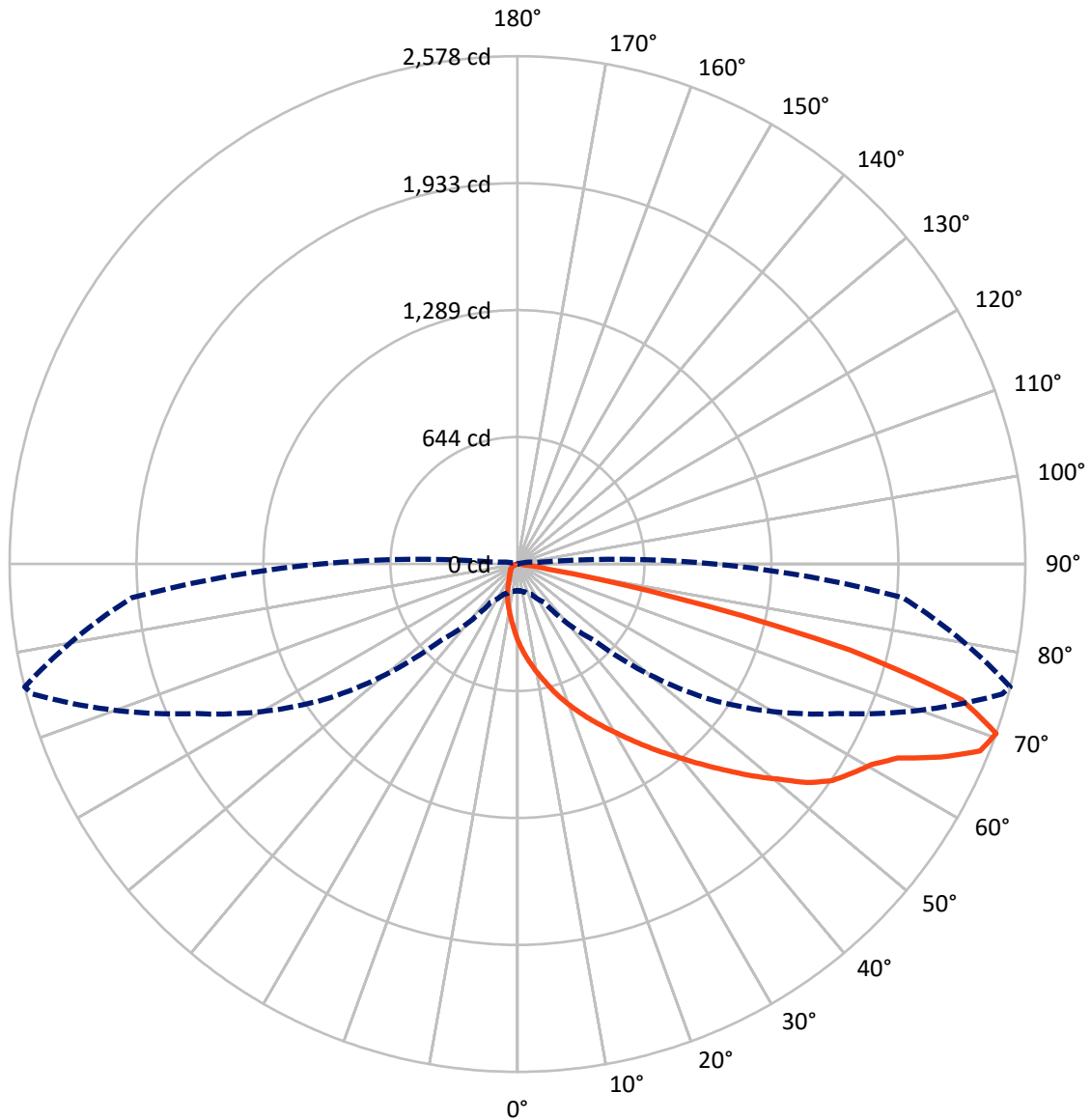
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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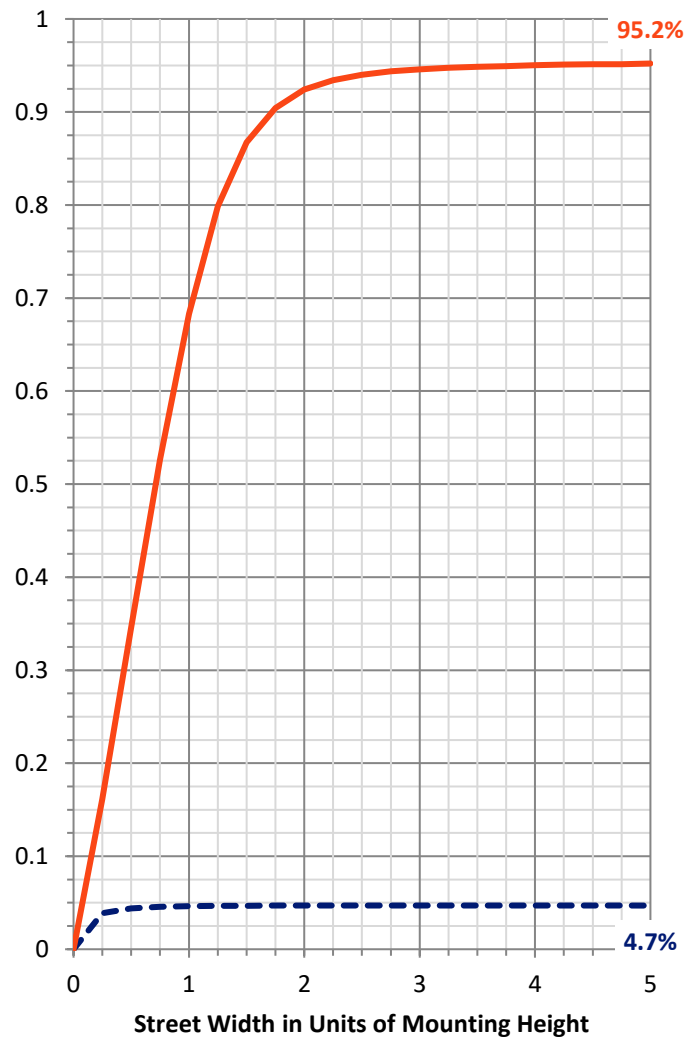
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.3	0.0	137.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	2774.7	0.0	2774.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	2912.0	0.0	2912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.3
10°-20°	118.5	4.1
20°-30°	220.7	7.6
30°-40°	390.4	13.4
40°-50°	597.0	20.5
50°-60°	676.9	23.2
60°-70°	580.3	19.9
70°-80°	281.0	9.7
80°-90°	10.4	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°	2912.0	100.0
0°-180°	2912.0	100.0

Coefficient of Utilization



--- HS — SS

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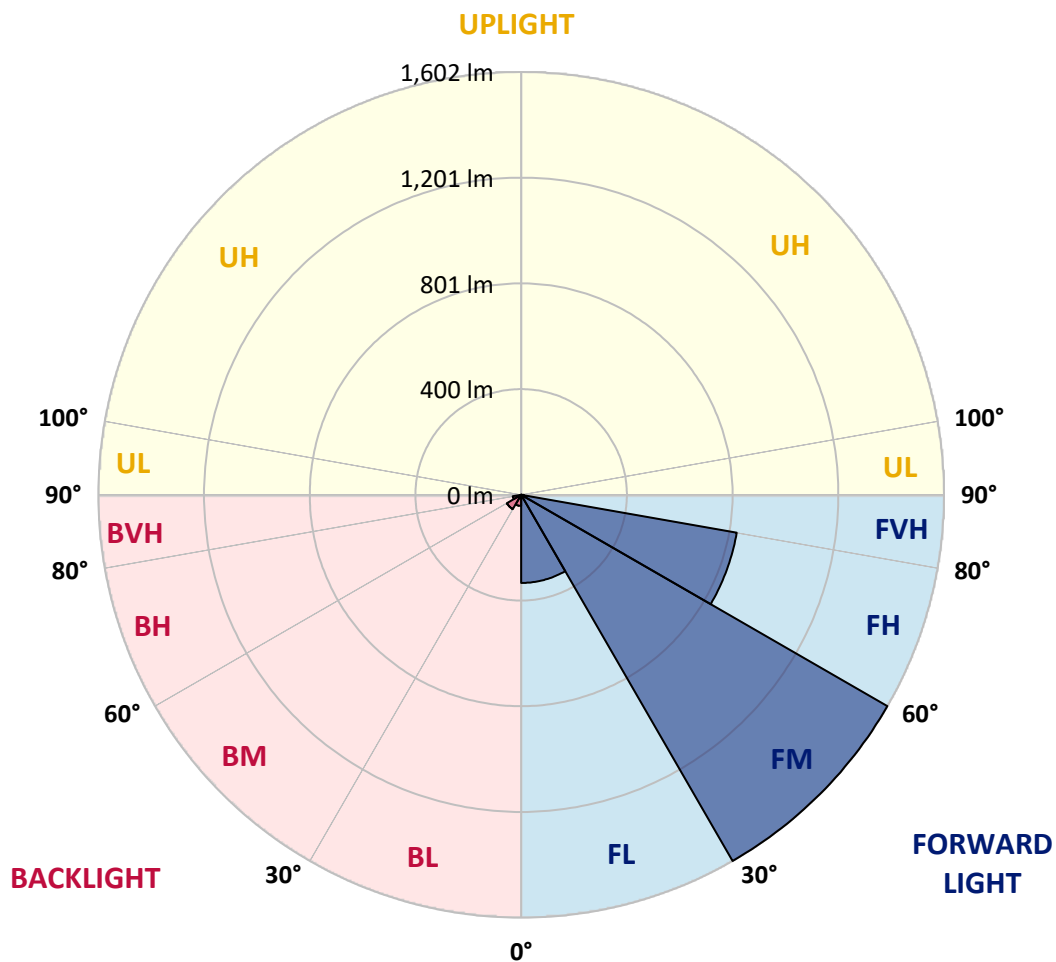
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.8	11.5			
FM (30°-60°)	1601.6	55.0			
FH (60°-80°)	829.0	28.5			G1/1800
FVH (80°-90°)	10.2	0.4			G1/100
BL (0°-30°)	42.1	1.4	B0/110		
BM (30°-60°)	62.7	2.2	B0/220		
BH (60°-80°)	32.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	532.8	529.9	527.0	515.8	505.7	496.4	479.0	456.2	435.8	431.5	407.7
5°	625.9	622.5	618.1	607.0	593.9	578.4	552.7	517.8	481.9	474.1	430.0
7.5°	688.9	686.0	679.7	674.4	661.3	646.3	617.7	576.9	527.5	517.8	455.7
10°	732.1	730.1	729.2	724.8	715.1	703.0	674.4	631.7	573.5	562.4	482.9
12.5°	747.6	747.6	752.4	759.7	761.2	757.3	731.1	688.4	622.0	610.4	514.9
15°	726.7	729.2	739.8	763.1	787.3	803.3	786.9	747.1	675.3	662.7	552.7
17.5°	720.9	723.3	730.6	751.0	783.5	826.1	834.4	803.8	725.8	715.1	591.5
20°	737.4	739.8	746.1	763.6	788.3	831.5	865.9	858.6	779.1	767.9	630.7
22.5°	776.7	778.1	778.1	791.7	813.5	845.5	885.8	910.5	833.9	821.8	669.5
25°	861.0	858.1	846.5	839.7	853.8	879.9	911.0	956.1	895.0	878.5	711.2
27.5°	971.6	981.3	953.1	920.7	910.0	925.0	946.4	996.3	954.1	936.7	749.0
30°	1121.4	1117.5	1080.6	1034.1	988.0	982.7	990.0	1030.7	1013.3	996.8	791.2
32.5°	1244.5	1251.8	1213.0	1156.3	1087.4	1055.0	1047.2	1071.9	1076.3	1065.6	841.2
35°	1371.1	1378.8	1341.0	1278.0	1196.0	1141.7	1119.4	1122.8	1154.3	1140.8	893.5
37.5°	1484.5	1491.3	1454.0	1389.5	1307.5	1241.1	1209.1	1182.9	1230.0	1217.9	948.8
40°	1570.8	1571.8	1546.6	1488.9	1411.3	1342.4	1306.1	1254.7	1310.0	1301.7	1006.5
42.5°	1631.9	1633.8	1615.4	1565.9	1494.2	1430.2	1400.6	1339.5	1402.1	1394.8	1073.4
45°	1660.5	1663.9	1661.9	1616.4	1556.7	1501.5	1491.8	1429.7	1502.9	1496.1	1150.5
47.5°	1633.3	1633.3	1658.1	1651.8	1597.0	1560.1	1571.3	1523.8	1612.5	1606.2	1229.0
50°	1520.4	1521.8	1572.2	1644.5	1612.5	1604.2	1639.2	1615.9	1711.9	1715.8	1323.1
52.5°	1223.7	1221.2	1391.4	1530.1	1601.8	1624.1	1701.7	1709.9	1831.1	1842.8	1416.6
55°	914.4	912.9	1075.8	1327.4	1527.2	1613.9	1736.6	1793.8	1933.0	1940.2	1486.4
57.5°	723.8	719.9	809.6	1070.0	1358.4	1568.4	1738.1	1809.8	1989.7	2002.3	1554.3
60°	556.6	553.2	620.1	796.1	1119.4	1447.2	1696.4	1810.8	2044.5	2066.8	1645.5
62.5°	398.0	401.9	453.3	571.1	861.0	1276.0	1642.1	1824.4	2141.9	2167.1	1774.9
65°	268.6	266.6	309.3	388.8	612.3	1045.7	1558.7	1853.0	2317.4	2361.5	1930.0
67.5°	186.7	188.1	207.5	253.1	388.8	802.9	1420.0	1869.0	2498.7	2533.1	2038.6
70°	134.8	136.7	147.4	170.2	237.6	544.4	1200.4	1795.7	2547.7	2577.8	1963.0
72.5°	88.7	92.6	108.6	120.7	151.7	340.8	884.3	1547.0	2336.8	2359.1	1646.9
75°	48.0	49.0	69.8	90.2	108.1	212.3	527.5	1043.3	1748.2	1741.0	1086.0
77.5°	37.3	38.8	43.1	64.5	72.7	116.8	208.5	471.2	828.1	805.8	370.4
80°	22.8	23.8	30.1	38.3	50.9	67.9	61.1	128.0	168.2	157.6	54.3
82.5°	13.6	14.5	17.9	32.0	40.2	32.0	21.3	31.0	31.5	31.0	13.6
85°	2.4	2.4	12.6	22.3	21.3	9.2	12.6	10.2	9.2	9.7	2.9
87.5°	0.0	0.0	4.8	6.8	9.7	3.4	4.8	2.4	2.4	2.4	1.5
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°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	393.2	376.7	342.8	313.2	283.6	261.8	245.3	228.3	222.5	215.3	211.4
5°	400.0	367.5	300.1	246.3	200.7	165.8	143.5	129.9	121.2	114.9	113.4
7.5°	410.2	360.2	265.7	193.0	143.0	108.1	89.7	80.5	75.6	72.7	71.8
10°	422.3	353.9	231.7	150.3	100.8	76.1	65.9	62.1	60.1	59.1	58.7
12.5°	439.2	351.5	203.1	115.9	76.1	62.5	57.2	54.8	53.3	51.9	51.4
15°	461.5	352.5	177.0	89.7	63.0	55.8	51.4	49.0	47.0	45.6	45.6
17.5°	484.8	353.9	151.3	72.7	57.2	50.9	46.1	42.7	41.2	39.8	39.3
20°	506.6	353.4	126.5	62.1	51.9	45.6	40.7	37.3	34.9	33.5	33.5
22.5°	527.5	350.5	103.3	55.8	47.5	40.2	34.9	31.5	29.6	28.1	28.1
25°	549.8	344.7	84.4	50.9	42.2	35.4	30.1	26.7	25.2	23.8	23.8
27.5°	567.2	335.0	68.8	46.5	37.3	30.5	25.7	22.8	21.3	20.4	20.4
30°	586.1	320.9	57.2	41.7	32.5	26.2	21.8	19.4	17.9	17.5	17.5
32.5°	607.0	305.4	49.0	36.8	27.6	22.3	18.4	17.0	15.5	15.0	15.0
35°	631.2	291.9	44.1	32.0	24.2	18.9	16.0	14.5	13.6	13.6	13.6
37.5°	658.9	277.8	39.8	28.1	20.8	16.0	13.6	13.1	12.6	12.1	12.1
40°	688.9	262.8	35.9	24.7	17.9	13.6	11.6	11.6	11.2	11.2	11.2
42.5°	722.9	249.7	32.5	21.8	15.5	11.6	10.2	10.2	9.7	9.7	9.7
45°	759.7	237.6	29.6	19.4	13.6	10.2	9.2	8.7	8.2	8.2	8.2
47.5°	803.3	230.8	27.1	17.0	11.6	8.7	7.8	7.3	6.8	6.3	6.3
50°	859.1	233.7	24.7	14.1	10.2	7.3	6.3	5.8	5.3	4.8	4.8
52.5°	903.2	232.2	21.3	12.1	8.2	5.8	4.8	4.4	3.9	3.4	3.4
55°	935.2	226.4	18.4	10.2	6.3	4.8	3.9	2.9	2.4	2.4	2.4
57.5°	966.7	220.6	15.5	8.2	4.8	3.4	2.4	1.9	1.9	1.9	1.9
60°	1015.7	212.3	13.6	6.8	3.9	2.4	1.5	1.5	1.0	1.0	1.0
62.5°	1075.3	202.2	11.2	5.8	2.9	1.9	1.0	1.0	0.0	0.0	0.0
65°	1140.8	184.2	9.2	4.4	2.4	1.5	1.0	0.0	0.0	0.0	0.0
67.5°	1125.7	147.9	7.8	2.9	1.9	1.0	0.5	0.0	0.0	0.0	0.0
70°	995.8	99.9	6.3	2.4	1.5	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	780.1	59.1	4.4	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0
75°	499.4	29.6	2.9	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	167.3	14.5	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.8	4.8	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	1.9	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.0	0.0	0.0	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)