

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: P348774

Luminaire Tested: **ARCH-N-PA1-30-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-750-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477 lumens
Efficiency: N/A
Efficacy: 112.2 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

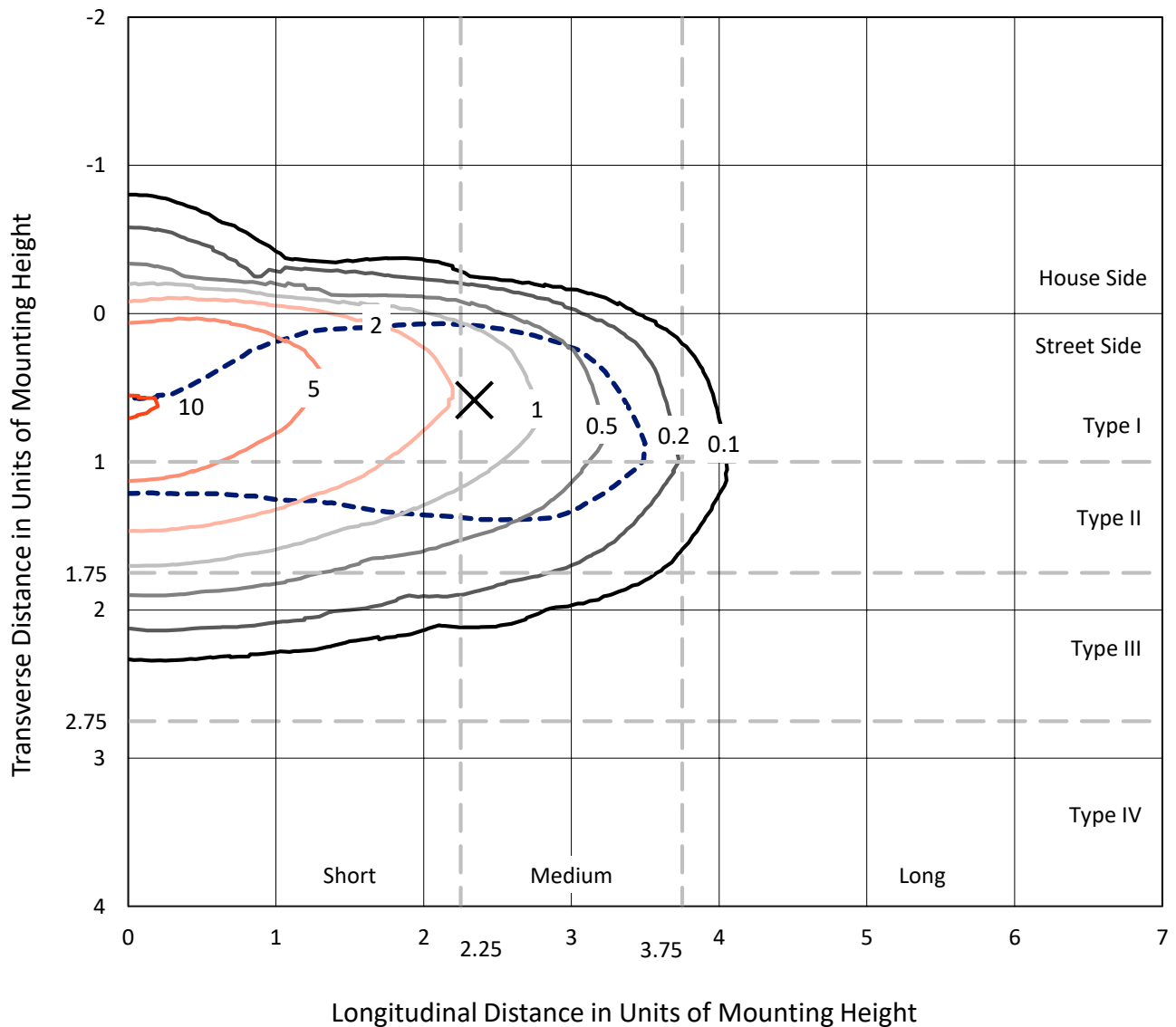


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Iso-Footcandle Lines of Horizontal Illumination

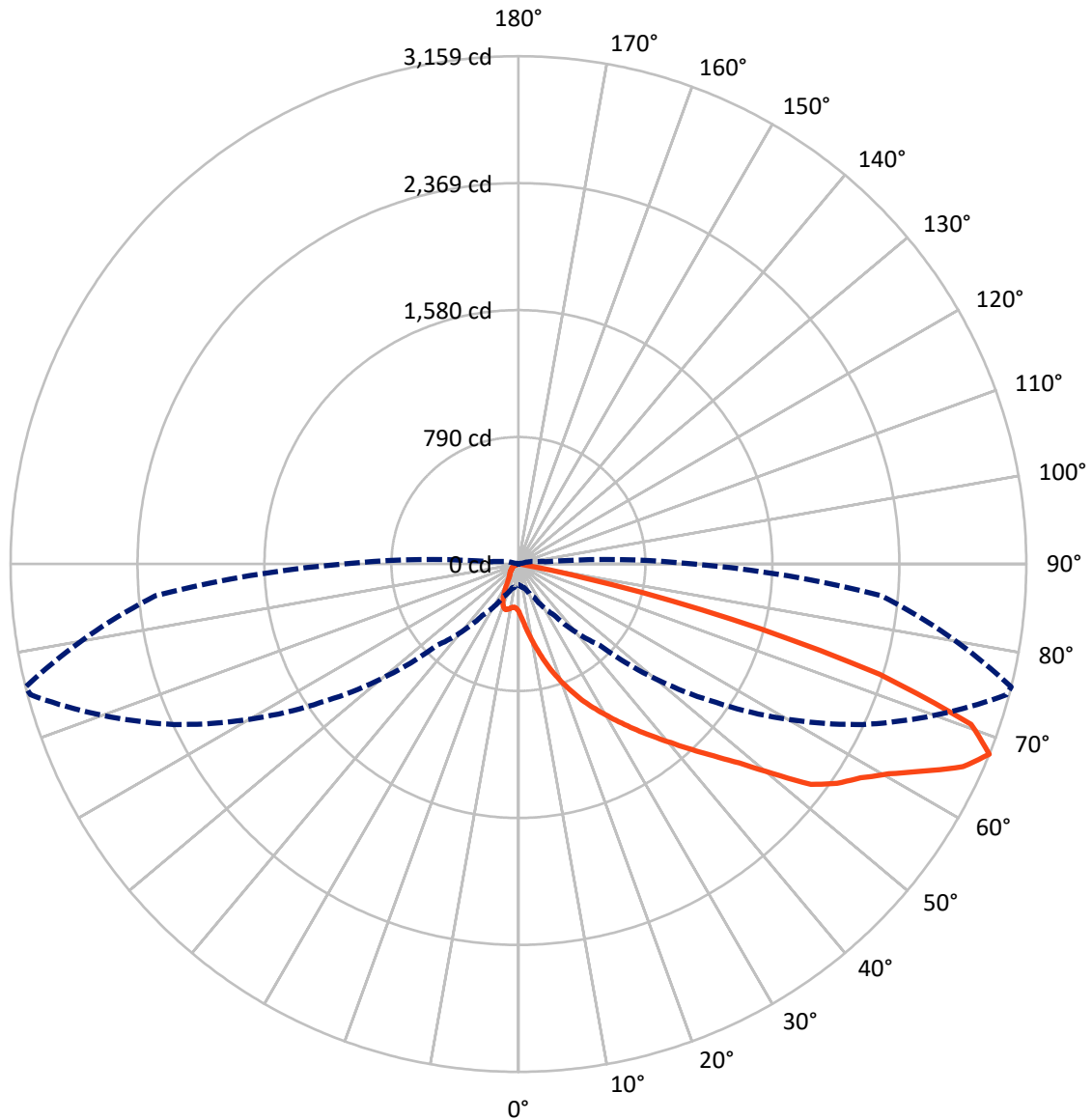
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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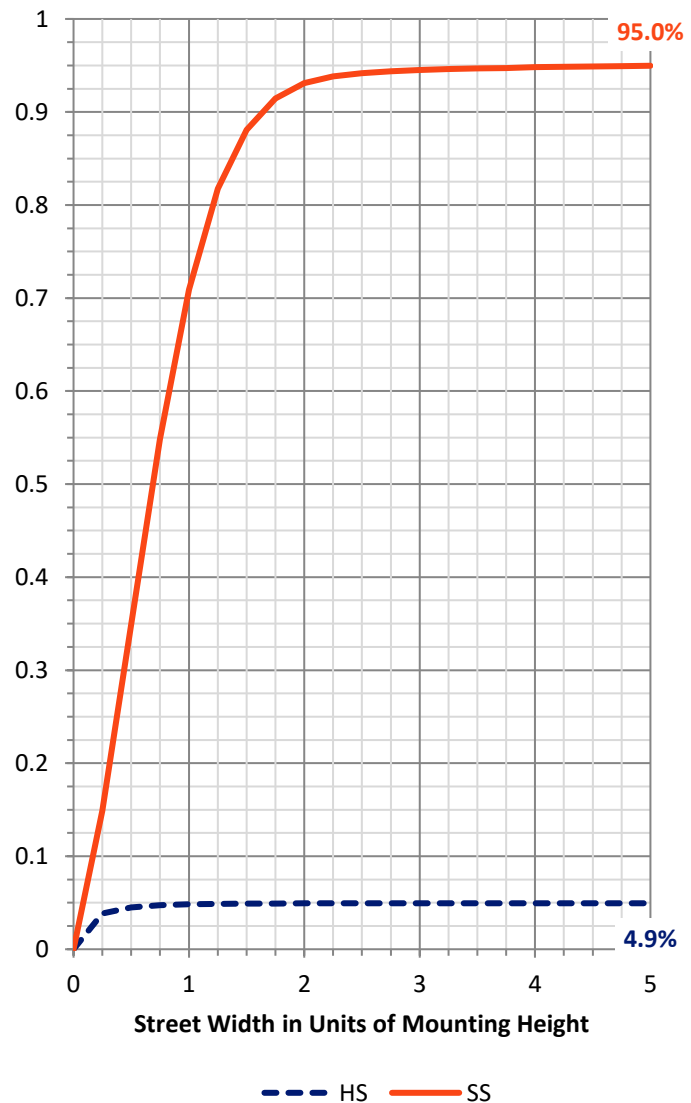
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	172.7	0.0	172.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3304.3	0.0	3304.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	3477.0	0.0	3477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	1.1
10°-20°	145.4	4.2
20°-30°	295.8	8.5
30°-40°	513.5	14.8
40°-50°	725.4	20.9
50°-60°	822.7	23.7
60°-70°	682.3	19.6
70°-80°	247.2	7.1
80°-90°	8.0	0.2
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°	3477.0	100.0
0°-180°	3477.0	100.0

Coefficient of Utilization



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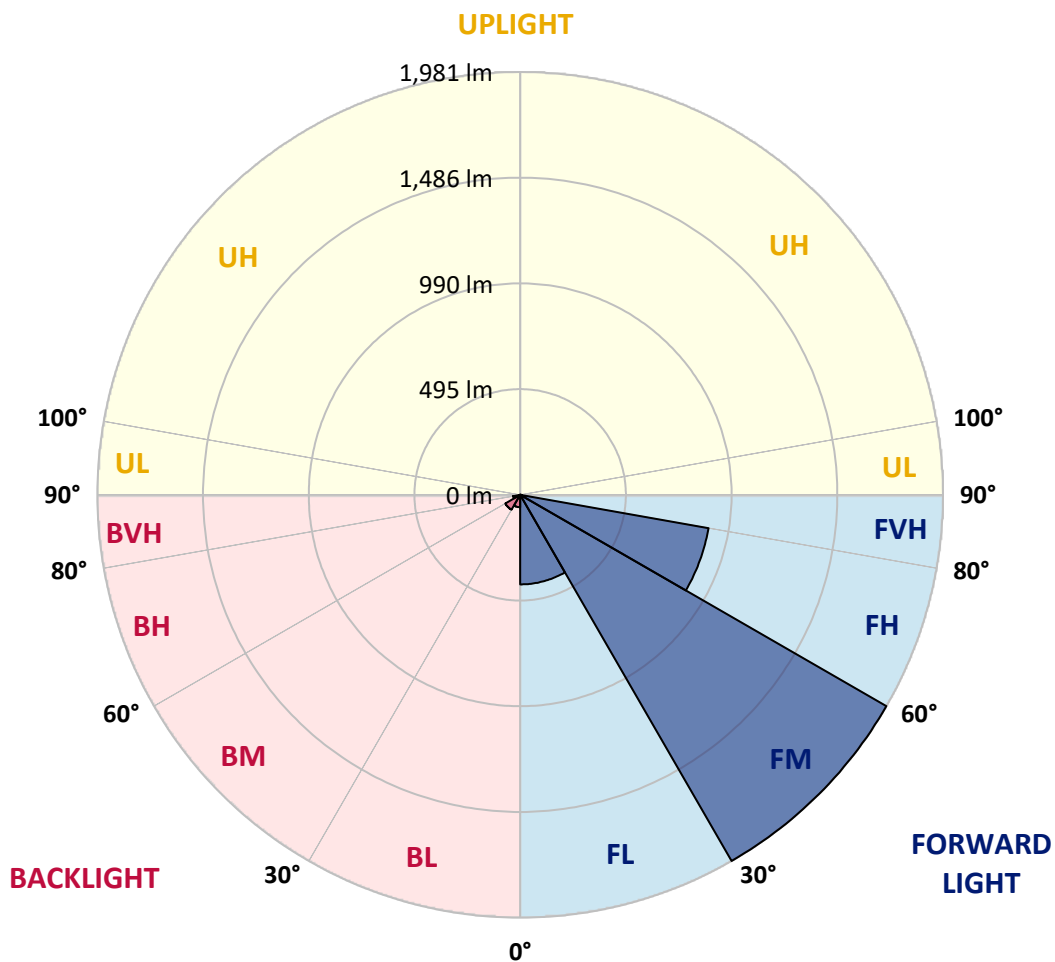
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.7	12.1			
FM	(30°-60°)	1980.8	57.0			
FH	(60°-80°)	896.1	25.8			G1/1800
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	58.2	1.7	B0/110		
BM	(30°-60°)	80.8	2.3	B0/220		
BH	(60°-80°)	33.4	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0
2.5°	440.3	430.4	432.7	426.3	414.7	390.9	370.7	351.5	329.1	328.3	309.9
5°	593.7	585.3	584.3	571.3	550.3	509.9	470.6	425.8	375.8	372.2	333.0
7.5°	733.0	726.3	723.8	708.4	669.3	630.0	578.8	513.0	434.8	428.1	364.3
10°	839.9	836.7	837.3	826.3	792.8	756.3	689.1	605.1	501.7	491.3	401.7
12.5°	921.0	921.7	927.2	920.5	901.8	874.6	802.9	703.4	575.7	561.6	444.6
15°	980.5	984.3	994.4	1002.8	1001.4	977.9	912.1	803.2	654.3	638.7	492.2
17.5°	1019.1	1023.3	1038.0	1056.5	1073.6	1068.1	1017.5	899.5	733.9	715.7	543.3
20°	1052.9	1057.9	1073.6	1098.1	1130.0	1136.8	1103.6	992.9	813.2	791.2	596.0
22.5°	1126.2	1126.0	1135.6	1149.9	1180.3	1197.9	1176.9	1079.6	891.7	868.7	649.8
25°	1258.7	1253.7	1250.3	1239.1	1245.8	1256.7	1245.0	1160.6	970.6	947.3	704.3
27.5°	1416.2	1419.3	1392.2	1361.9	1338.4	1327.1	1307.9	1235.7	1046.5	1020.9	757.6
30°	1582.5	1583.4	1551.4	1512.7	1461.0	1418.2	1385.0	1307.5	1124.5	1096.6	809.4
32.5°	1732.4	1726.4	1694.7	1642.0	1576.8	1528.7	1459.7	1387.6	1207.1	1180.1	867.0
35°	1851.2	1844.2	1805.7	1757.7	1690.0	1641.6	1558.5	1467.6	1293.9	1267.6	924.8
37.5°	1938.0	1929.8	1890.2	1840.8	1782.5	1754.3	1673.3	1554.6	1388.7	1360.3	985.6
40°	1968.2	1961.1	1936.2	1900.1	1853.2	1846.8	1795.0	1654.7	1491.8	1461.6	1054.4
42.5°	1950.2	1943.2	1934.4	1922.2	1902.7	1908.8	1909.9	1768.8	1606.4	1576.7	1130.4
45°	1878.9	1872.7	1881.8	1899.7	1923.9	1954.0	2014.7	1891.4	1734.4	1702.7	1218.3
47.5°	1774.0	1769.4	1794.7	1839.2	1910.0	1993.2	2110.5	2020.3	1878.0	1848.6	1328.0
50°	1624.7	1623.9	1674.5	1755.7	1864.6	2012.1	2209.5	2166.9	2077.6	2046.7	1480.5
52.5°	1392.2	1393.7	1493.2	1623.1	1784.9	1999.3	2273.2	2355.2	2309.8	2277.6	1612.6
55°	1170.8	1180.0	1250.5	1437.9	1662.8	1951.8	2295.2	2443.1	2437.9	2407.4	1686.1
57.5°	954.0	970.6	1038.6	1213.6	1484.3	1842.2	2283.1	2481.2	2533.3	2510.0	1783.0
60°	719.1	726.7	805.0	968.6	1255.4	1642.3	2195.8	2501.9	2663.7	2647.5	1923.6
62.5°	457.5	476.6	546.0	703.9	977.5	1364.8	2048.7	2501.6	2826.9	2835.7	2105.0
65°	241.0	263.3	300.1	436.2	671.7	1054.7	1827.3	2478.1	3027.0	3039.4	2246.9
67.5°	130.0	136.4	155.9	226.4	389.6	714.5	1502.0	2362.3	3143.0	3159.3	2266.7
70°	95.1	98.6	105.9	125.2	196.1	415.0	1096.0	2099.8	2993.5	2987.4	2013.9
72.5°	73.0	78.5	83.9	91.7	112.7	221.5	682.4	1644.3	2388.5	2348.3	1505.4
75°	57.6	58.5	66.3	73.3	84.6	126.1	303.0	957.7	1457.8	1362.6	780.6
77.5°	46.0	46.6	51.2	57.3	67.9	82.9	93.8	376.8	465.4	415.3	169.4
80°	27.3	28.8	38.1	44.2	56.4	52.3	34.3	81.8	72.7	65.8	28.5
82.5°	15.2	16.5	21.5	34.9	39.3	25.0	17.1	22.1	17.1	16.6	8.1
85°	0.0	0.8	13.9	21.6	16.0	5.5	7.2	7.3	5.0	4.7	3.2
87.5°	0.0	0.0	4.3	4.1	0.6	0.9	1.7	2.4	2.0	2.0	1.7
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°	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0
2.5°	300.7	292.5	277.0	261.7	248.9	238.4	229.0	225.2	222.1	221.7	219.2
5°	314.1	297.5	267.8	243.5	227.2	215.6	205.7	199.6	194.9	193.0	191.4
7.5°	334.4	309.3	266.6	238.6	219.1	199.6	181.3	161.5	149.2	144.4	141.7
10°	359.1	324.8	271.2	237.2	203.1	161.9	131.6	106.5	96.3	92.9	92.0
12.5°	387.9	344.2	279.1	228.7	169.0	115.0	90.8	82.3	80.0	78.9	78.9
15°	420.9	365.3	284.7	204.0	124.9	87.0	78.6	74.7	72.2	70.8	71.0
17.5°	454.8	386.1	282.0	168.2	92.2	77.4	71.1	66.9	63.5	62.2	61.9
20°	488.9	405.3	266.8	125.2	78.0	70.2	63.2	58.5	55.2	53.8	53.5
22.5°	524.2	421.6	240.0	91.9	70.1	62.3	55.5	50.7	47.5	46.3	45.7
25°	558.7	434.8	202.5	74.3	62.6	54.8	48.3	43.9	41.0	39.8	39.6
27.5°	590.8	443.2	159.1	65.7	56.1	48.1	42.2	38.2	35.8	34.9	34.7
30°	619.8	443.9	117.6	59.3	50.3	42.4	36.9	33.4	31.2	30.3	30.0
32.5°	649.0	437.6	85.6	53.5	44.9	37.3	32.0	29.3	27.7	27.0	27.0
35°	676.6	422.8	66.7	48.4	39.8	32.5	28.2	26.2	25.3	24.5	24.5
37.5°	703.6	401.6	56.7	44.0	34.9	28.3	24.8	23.6	22.9	22.1	22.1
40°	731.0	374.9	51.5	39.9	30.9	25.1	22.1	21.0	20.3	19.7	19.5
42.5°	764.6	344.2	48.1	36.1	27.4	22.2	19.5	18.3	17.7	17.1	16.8
45°	803.6	317.7	45.4	32.3	24.5	19.8	16.9	15.7	14.8	14.0	13.9
47.5°	859.9	298.5	41.7	28.2	21.8	17.2	14.6	13.3	11.9	11.1	11.0
50°	931.6	282.6	37.0	24.5	19.0	14.6	12.2	10.5	9.3	8.5	8.5
52.5°	967.3	261.9	32.8	21.3	16.0	12.3	9.9	7.9	7.3	6.6	6.6
55°	981.6	246.0	28.5	18.1	13.3	10.2	7.8	6.1	5.6	5.2	5.0
57.5°	1021.8	241.5	24.8	15.4	11.0	8.1	5.9	4.6	4.3	3.7	3.7
60°	1086.6	243.8	21.5	13.1	8.8	6.2	4.4	3.5	3.2	2.6	2.6
62.5°	1156.5	240.9	18.1	11.3	6.9	4.6	3.0	2.6	2.6	1.5	1.4
65°	1169.9	214.5	15.5	9.3	5.3	3.4	2.0	1.7	2.3	0.3	0.0
67.5°	1085.8	166.4	13.4	7.2	4.0	2.6	1.5	0.8	2.0	0.0	0.0
70°	868.2	105.7	10.8	5.2	3.0	2.1	1.2	0.3	1.5	0.0	0.0
72.5°	614.0	61.4	8.5	3.7	2.6	1.7	0.9	0.0	0.9	0.0	0.0
75°	310.5	32.8	5.3	2.7	2.0	1.2	0.6	0.0	0.2	0.0	0.0
77.5°	67.2	15.2	3.4	2.0	1.4	0.8	0.3	0.0	0.0	0.0	0.0
80°	14.6	6.7	2.1	1.2	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.3	3.5	1.1	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.8	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.6	0.2	0.2	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)