

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: P348534

Luminaire Tested: **ARCH-N-PA1-19-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2770 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 19
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

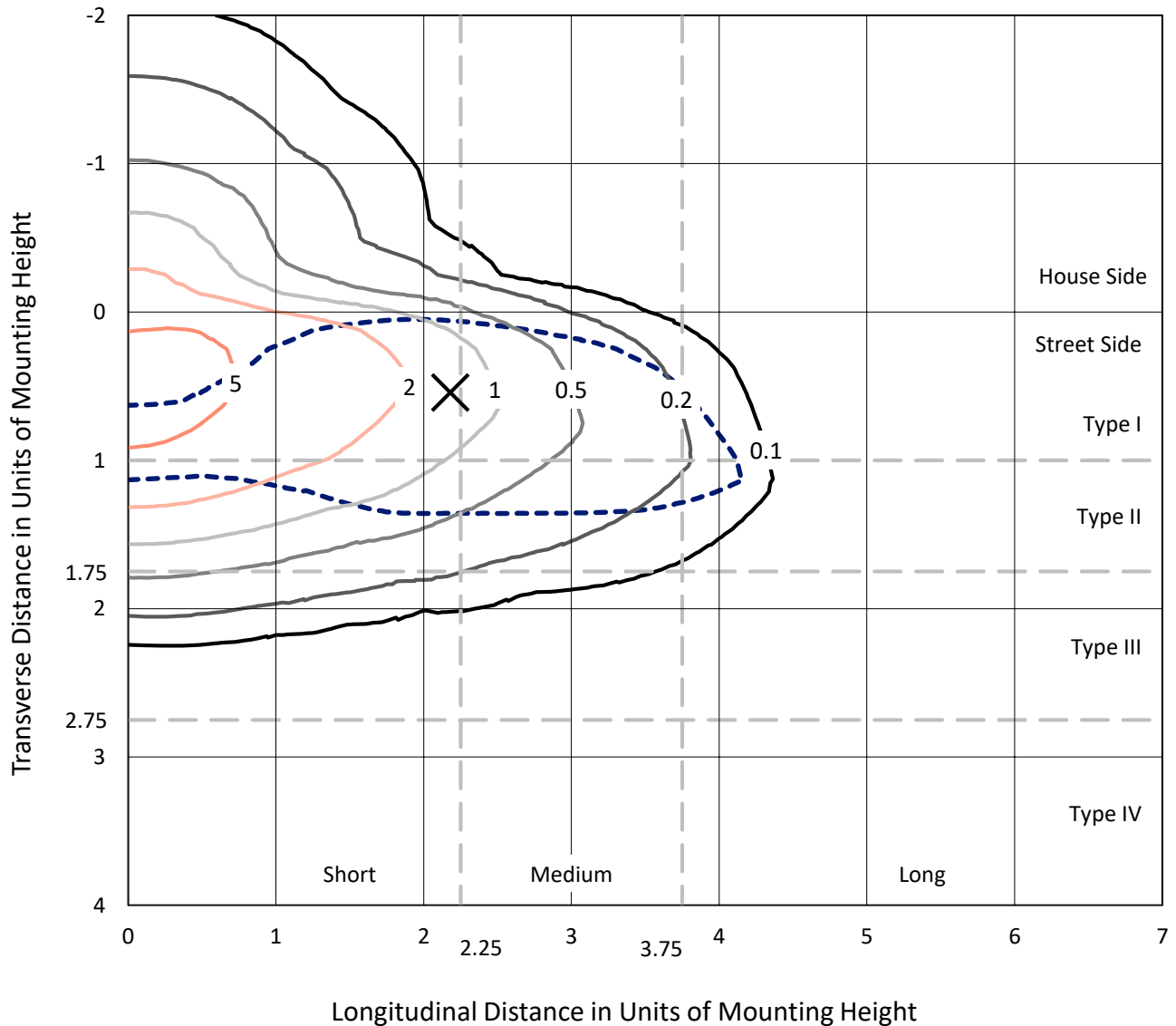


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

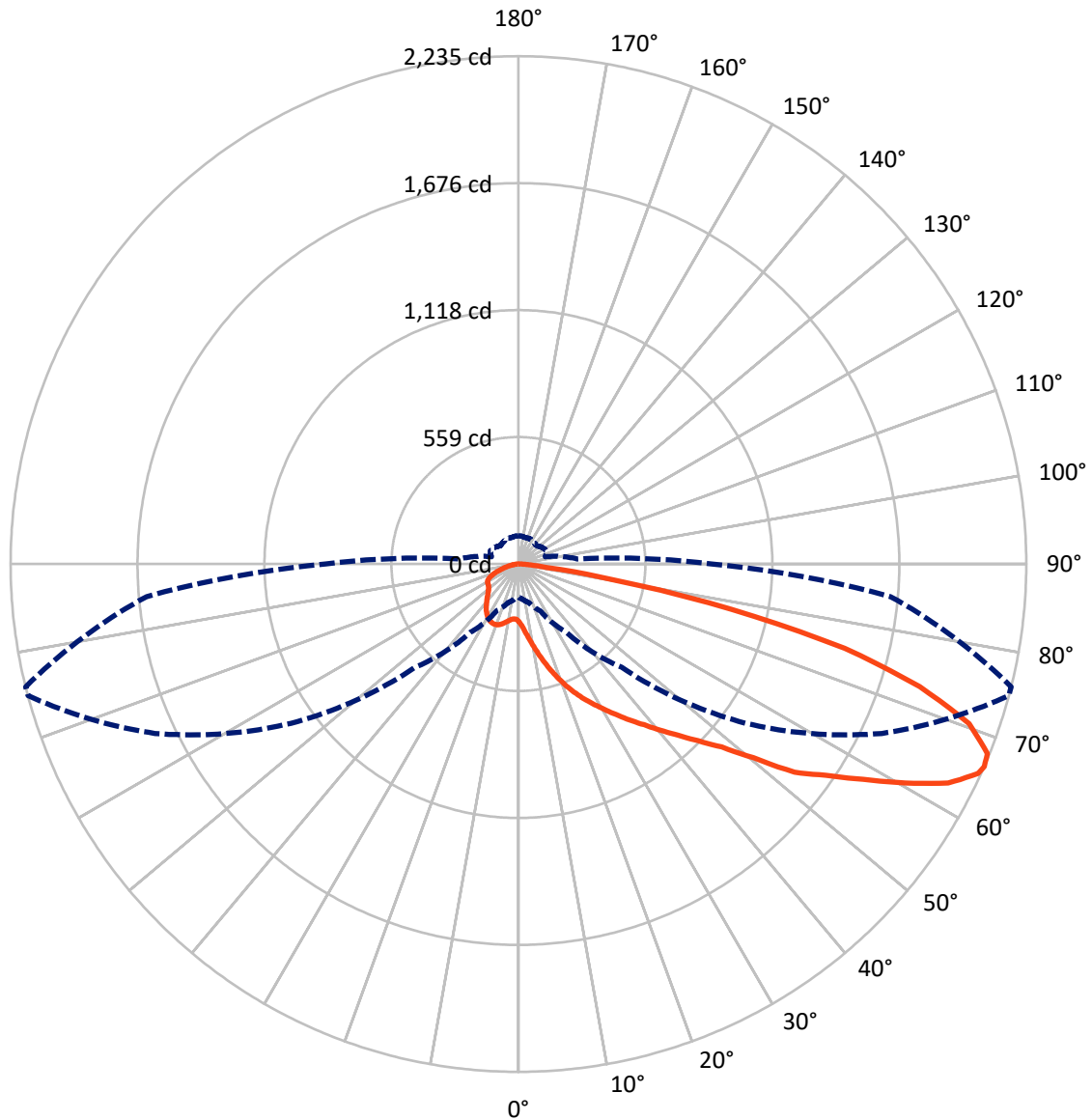


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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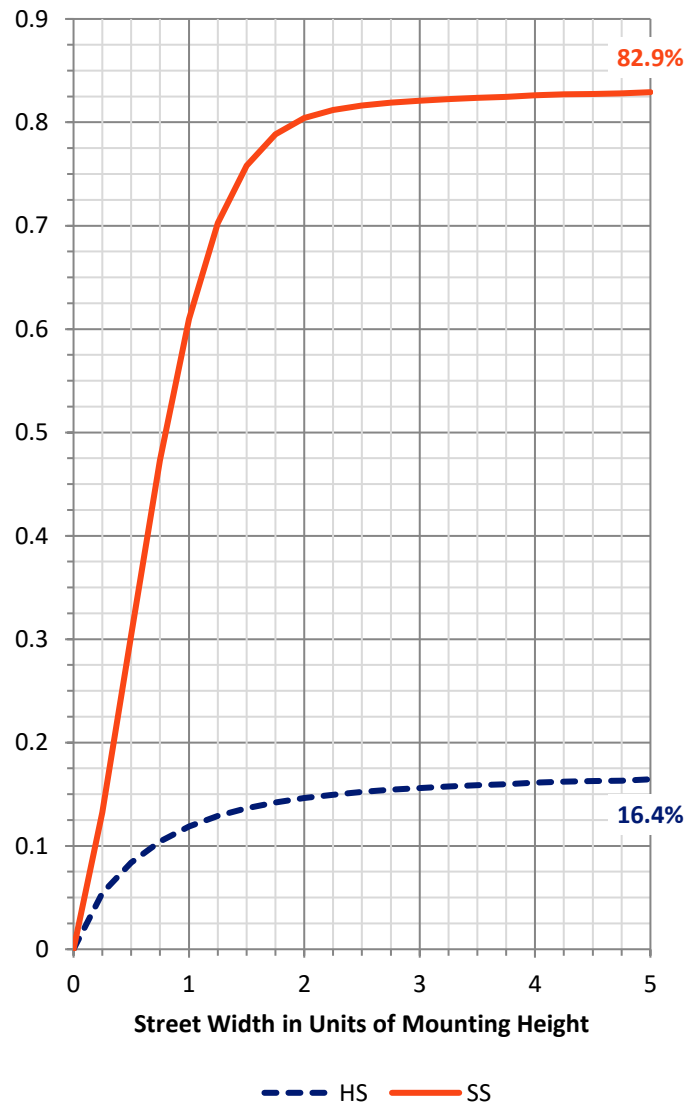
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	466.1	0.0	466.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2303.9	0.0	2303.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	2770.0	0.0	2770.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	1.1
10°-20°	120.8	4.4
20°-30°	234.7	8.5
30°-40°	383.2	13.8
40°-50°	523.5	18.9
50°-60°	609.7	22.0
60°-70°	546.6	19.7
70°-80°	276.3	10.0
80°-90°	44.6	1.6
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°	2770.0	100.0
0°-180°	2770.0	100.0



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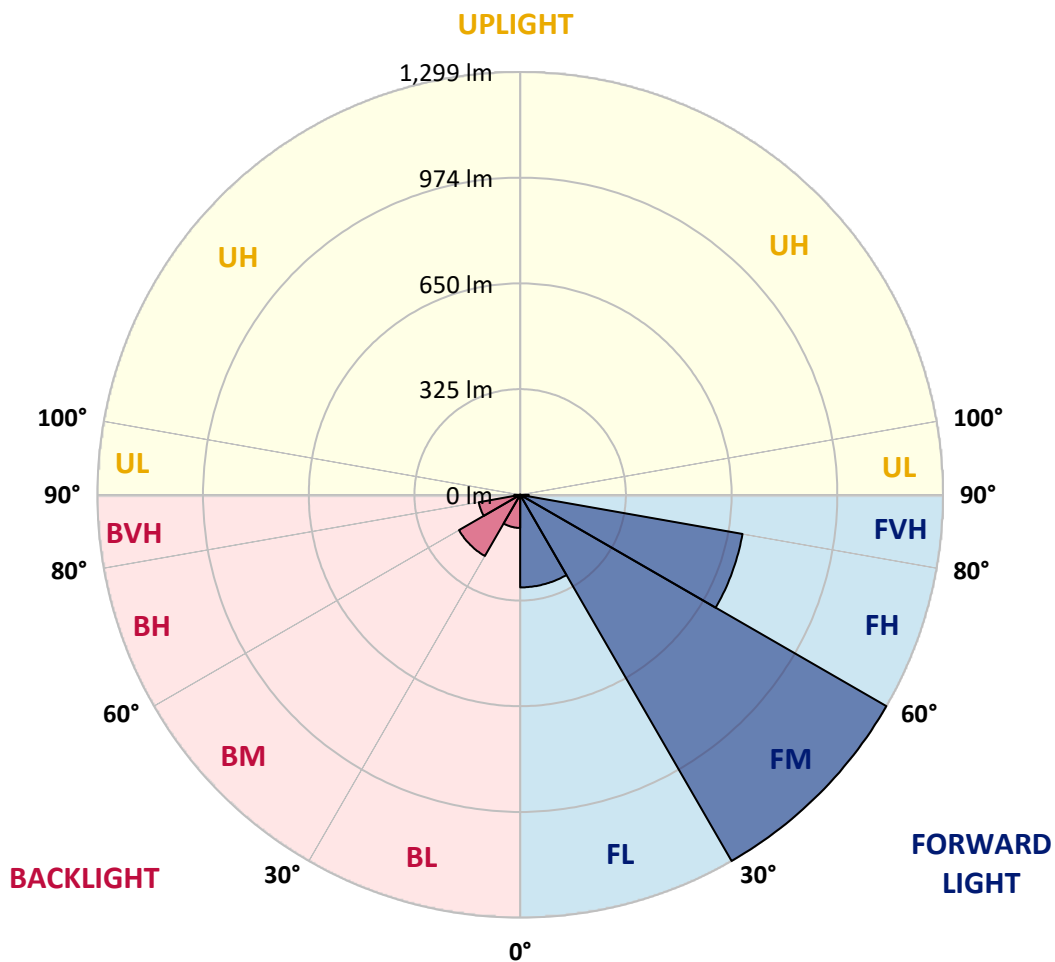
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.5	10.3			
FM (30°-60°)	1299.3	46.9			
FH (60°-80°)	693.8	25.0			G1/1800
FVH (80°-90°)	26.3	1.0			G1/100
BL (0°-30°)	101.7	3.7	B0/110		
BM (30°-60°)	217.0	7.8	B0/220		
BH (60°-80°)	129.1	4.7	B1/500		G1/500
BVH (80°-90°)	18.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0
2.5°	335.8	330.7	330.3	322.8	321.1	306.9	296.5	285.6	273.2	270.7	261.0
5°	431.4	430.9	424.4	412.3	402.8	378.5	354.5	329.1	301.3	296.8	274.8
7.5°	517.3	516.6	511.6	498.5	484.8	455.0	420.7	381.8	336.7	330.0	293.5
10°	582.6	582.3	580.6	571.0	559.3	530.8	492.9	439.8	377.8	368.6	316.9
12.5°	633.0	633.5	634.7	631.3	625.7	601.4	562.6	501.3	421.6	412.5	343.0
15°	667.1	668.8	674.6	679.4	682.3	667.4	629.9	564.2	470.7	459.8	371.8
17.5°	684.3	686.2	696.3	710.7	724.1	722.6	692.8	624.2	517.8	507.3	402.9
20°	699.2	700.6	711.9	729.3	752.9	763.3	746.6	682.0	569.4	557.0	435.8
22.5°	742.2	744.0	747.4	757.3	778.2	797.4	789.3	736.6	616.7	605.1	467.0
25°	825.4	827.5	820.2	811.8	815.8	829.1	830.6	786.4	664.7	651.6	500.6
27.5°	925.5	928.6	916.1	894.6	875.8	870.6	868.8	827.3	710.5	695.3	533.8
30°	1023.6	1029.0	1012.7	984.8	950.3	926.0	908.0	867.2	755.6	741.1	565.1
32.5°	1119.4	1117.3	1093.7	1066.4	1026.0	995.6	952.1	910.1	806.4	789.7	596.2
35°	1185.1	1185.8	1163.9	1131.6	1093.0	1069.7	1011.2	956.4	858.2	842.9	631.6
37.5°	1240.9	1237.5	1212.6	1182.4	1149.2	1139.3	1080.3	1007.3	914.3	897.6	669.2
40°	1259.6	1255.5	1239.2	1217.5	1190.9	1190.1	1156.6	1065.1	977.8	961.3	711.6
42.5°	1248.3	1243.1	1236.4	1230.5	1222.3	1226.1	1228.2	1132.8	1047.6	1029.1	760.7
45°	1206.6	1198.8	1203.5	1216.4	1234.2	1255.4	1292.9	1207.7	1125.7	1110.2	818.3
47.5°	1142.6	1135.5	1150.2	1177.7	1226.1	1279.9	1354.2	1290.5	1219.0	1203.6	900.4
50°	1052.5	1054.5	1075.5	1125.6	1198.7	1291.1	1429.6	1400.0	1354.6	1340.2	1012.4
52.5°	904.7	905.0	964.1	1046.4	1150.2	1285.3	1471.4	1540.1	1539.8	1522.4	1119.1
55°	767.4	775.7	822.5	931.8	1071.6	1262.0	1500.7	1608.2	1661.4	1641.0	1218.5
57.5°	633.3	638.1	682.4	792.3	959.4	1199.8	1530.7	1689.9	1801.5	1788.6	1342.0
60°	480.7	488.2	534.0	635.5	815.9	1089.5	1533.5	1775.2	1969.0	1956.0	1480.0
62.5°	312.0	325.0	367.9	463.0	642.3	930.9	1468.0	1830.9	2127.7	2123.1	1602.4
65°	179.3	189.1	218.9	292.3	443.1	731.7	1312.4	1809.5	2225.4	2222.8	1648.2
66°	146.5	152.6	175.5	228.4	365.6	642.6	1221.9	1764.3	2235.1	2235.2	1642.9
67.5°	117.2	119.9	130.1	163.5	269.8	509.3	1060.3	1664.5	2223.1	2226.4	1609.0
70°	97.0	98.4	101.6	109.6	147.3	307.1	752.6	1405.2	2102.2	2104.8	1476.5
72.5°	87.0	87.8	89.1	90.2	103.9	171.6	459.7	1124.1	1843.2	1846.4	1274.6
75°	78.8	79.3	79.1	79.2	87.2	109.4	237.5	839.3	1490.3	1483.7	976.4
77.5°	69.2	69.7	68.7	68.9	77.1	84.1	118.2	587.6	1005.7	959.3	550.1
80°	58.5	58.9	58.5	59.2	67.1	63.5	68.7	330.5	444.7	420.6	195.6
82.5°	44.2	45.8	46.9	49.6	55.3	45.1	46.0	128.7	135.4	128.9	60.0
85°	19.4	23.6	35.4	37.9	41.6	27.1	30.2	52.5	55.1	53.4	21.8
87.5°	5.1	5.5	17.5	22.0	23.0	12.2	15.7	23.9	25.2	23.9	7.2
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°	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0	253.0
2.5°	255.8	251.2	242.9	235.6	230.0	226.3	222.5	220.6	219.5	218.4	218.5
5°	264.0	254.7	240.5	230.4	224.8	221.2	219.3	218.5	218.1	216.9	216.9
7.5°	276.3	263.1	243.6	233.2	228.8	226.1	224.9	224.6	224.0	222.7	222.9
10°	291.8	273.4	250.0	240.0	235.9	232.9	231.3	230.8	229.7	228.2	228.4
12.5°	310.0	286.1	258.6	248.1	243.2	239.1	236.5	234.9	233.1	231.1	231.2
15°	330.0	299.9	267.8	255.3	248.6	243.0	238.8	236.0	233.2	230.8	230.7
17.5°	350.2	313.2	274.9	259.3	250.2	242.8	237.1	232.8	229.4	226.4	226.1
20°	372.0	325.3	278.8	258.9	247.2	238.4	230.8	225.5	221.6	218.6	218.2
22.5°	394.2	336.6	279.5	255.0	240.6	229.7	221.7	215.9	212.0	208.9	207.7
25°	414.5	345.3	276.8	247.6	231.2	219.6	211.8	205.9	202.7	199.0	197.9
27.5°	433.0	351.4	271.3	238.1	220.8	209.3	202.0	196.9	193.4	190.6	189.7
30°	449.7	354.7	262.4	226.8	210.1	199.6	193.4	190.0	186.9	183.4	182.7
32.5°	465.5	354.7	250.9	214.5	199.5	191.1	187.4	185.3	181.9	178.4	177.5
35°	481.3	352.6	237.4	201.6	189.7	185.0	184.8	182.2	177.1	172.4	171.2
37.5°	497.9	348.1	222.1	189.6	181.7	182.2	183.8	178.2	170.9	164.2	162.4
40°	516.7	342.0	206.3	179.1	175.0	181.0	181.3	172.4	158.1	152.0	150.4
42.5°	538.8	335.9	191.7	169.9	169.7	177.4	176.5	159.8	151.2	148.1	147.3
45°	567.9	332.4	177.7	161.2	165.6	171.4	168.3	152.8	149.2	147.5	146.7
47.5°	613.7	334.2	164.9	154.2	161.5	165.5	153.1	150.0	147.5	145.3	144.5
50°	671.1	333.2	154.6	149.4	156.8	159.3	146.2	146.3	145.0	142.6	141.4
52.5°	714.2	325.1	147.9	146.7	152.6	148.3	141.9	142.8	142.1	138.5	137.3
55°	755.9	318.1	144.5	145.7	149.6	134.6	136.8	138.9	138.2	134.8	134.2
57.5°	807.7	316.8	142.5	145.9	147.1	127.7	131.9	134.7	134.2	132.7	132.4
60°	871.2	317.2	140.6	146.4	144.3	122.6	127.3	130.8	131.1	130.8	130.6
62.5°	906.1	306.9	135.9	145.1	139.3	118.2	122.5	127.6	127.7	128.3	128.2
65°	876.4	276.3	127.1	140.5	130.9	114.5	118.4	123.9	122.5	125.1	125.1
66°	847.7	258.6	122.8	137.5	127.3	113.1	117.1	122.1	120.3	123.8	123.8
67.5°	788.9	228.8	115.0	131.1	122.3	111.2	115.6	119.0	116.5	121.7	121.3
70°	681.5	177.0	99.3	116.6	113.9	108.2	113.5	112.8	109.2	117.1	115.6
72.5°	574.6	134.5	79.7	97.6	101.2	104.6	110.6	104.9	100.3	105.9	102.6
75°	445.8	101.1	63.0	75.9	85.5	98.8	107.1	95.7	89.2	88.7	86.9
77.5°	241.0	69.4	49.9	57.9	67.9	91.7	104.8	86.0	76.2	73.9	72.5
80°	95.4	45.1	36.3	43.9	47.5	81.3	99.1	74.6	62.8	60.6	58.4
82.5°	39.4	26.7	23.4	29.4	30.9	69.6	89.0	61.1	48.5	67.1	71.3
85°	16.9	14.7	13.9	15.2	17.5	48.8	70.8	46.6	52.4	46.7	37.1
87.5°	5.1	6.2	5.9	5.8	6.4	11.7	37.7	26.0	38.5	14.6	10.9
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)