

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: P348570

Luminaire Tested: **ARCH-N-PA1-20-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348570
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-PA1-20-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737 lumens
Efficiency: N/A
Efficacy: 114.0 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

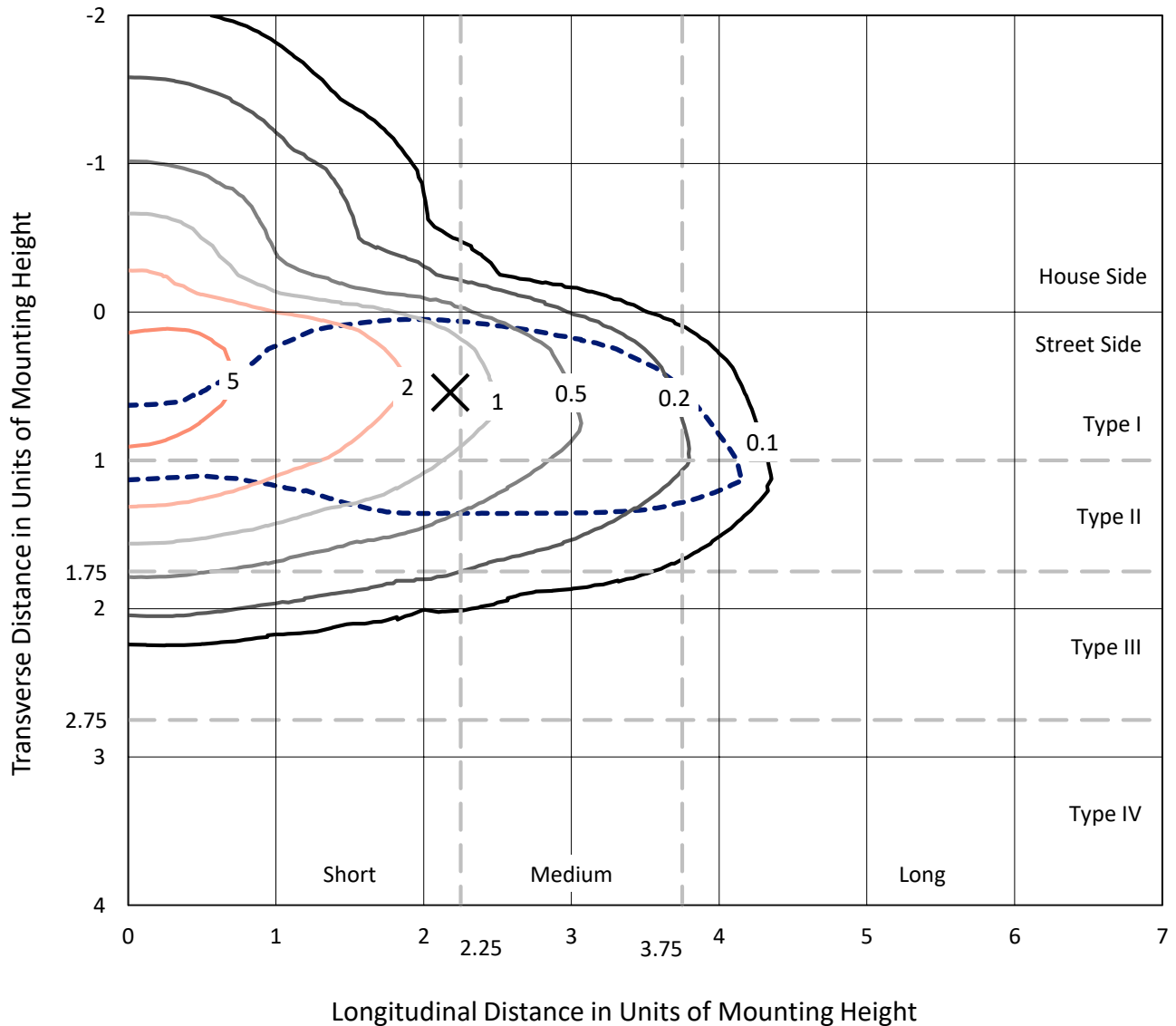
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

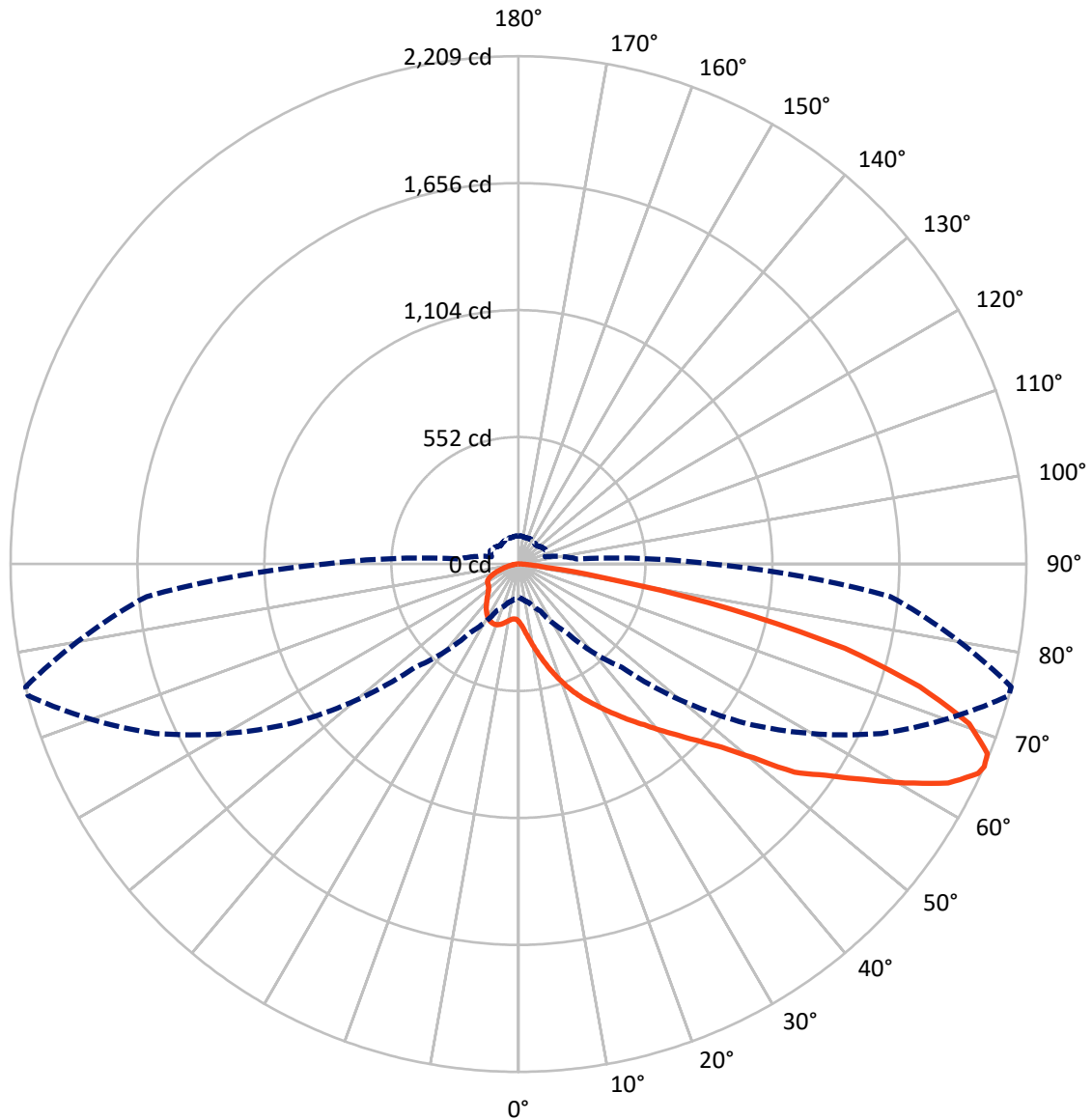
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 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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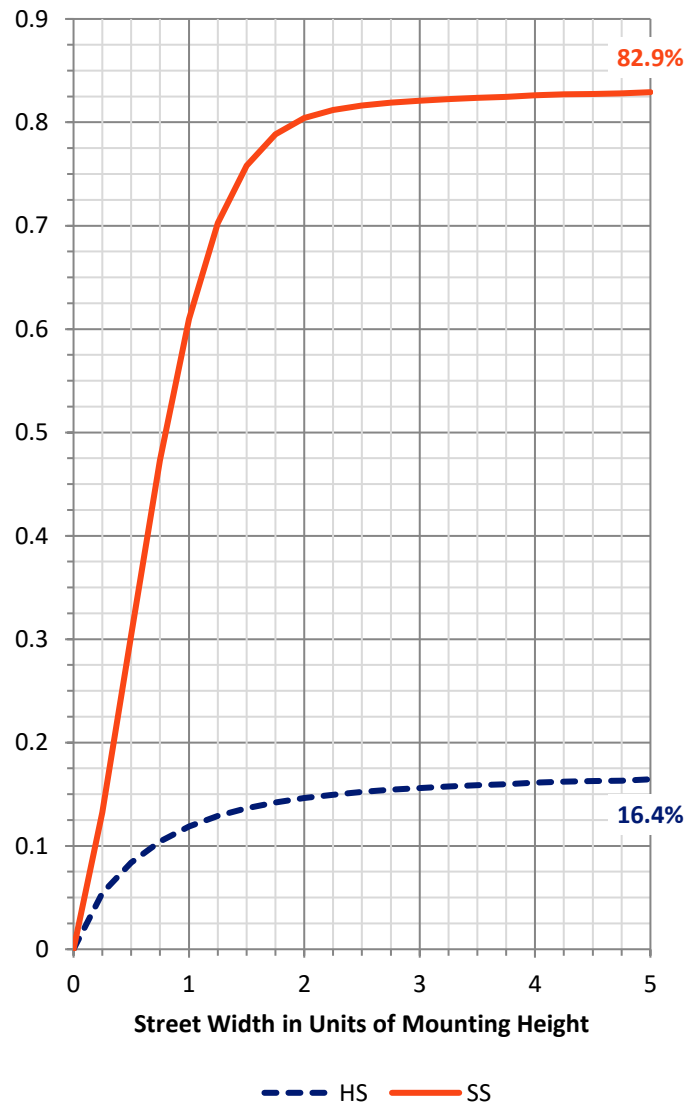
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.5	0.0	460.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2276.5	0.0	2276.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	2737.0	0.0	2737.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.2	1.1
10°-20°	119.4	4.4
20°-30°	231.9	8.5
30°-40°	378.6	13.8
40°-50°	517.2	18.9
50°-60°	602.5	22.0
60°-70°	540.1	19.7
70°-80°	273.0	10.0
80°-90°	44.1	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°	2737.0	100.0
0°-180°	2737.0	100.0



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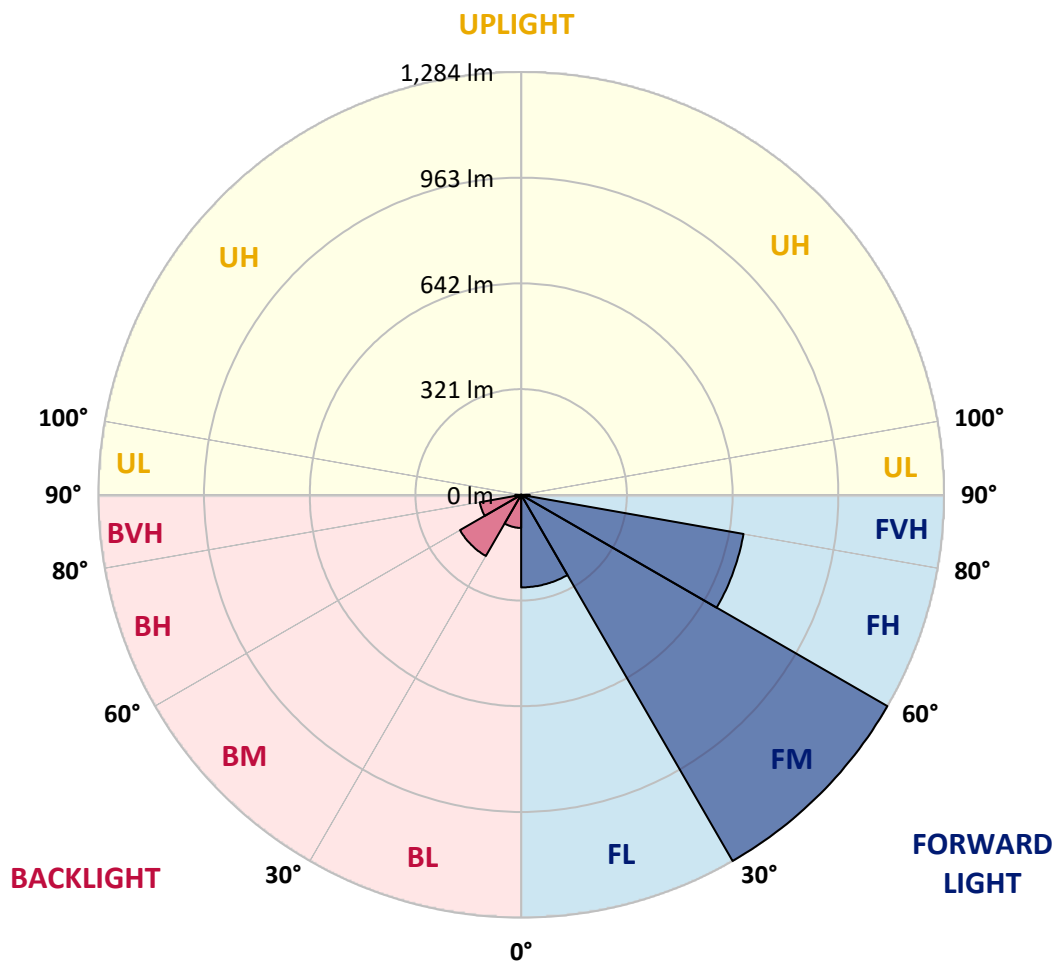
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.1	10.3			
FM (30°-60°)	1283.8	46.9			
FH (60°-80°)	685.5	25.0			G1/1800
FVH (80°-90°)	26.0	1.0			G1/100
BL (0°-30°)	100.4	3.7	B0/110		
BM (30°-60°)	214.5	7.8	B0/220		
BH (60°-80°)	127.6	4.7	B1/500		G1/500
BVH (80°-90°)	18.1	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°	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9
2.5°	331.8	326.8	326.3	319.0	317.3	303.3	293.0	282.2	269.9	267.5	257.8
5°	426.2	425.8	419.3	407.4	398.0	374.0	350.3	325.2	297.7	293.2	271.5
7.5°	511.1	510.4	505.5	492.6	479.0	449.5	415.7	377.2	332.6	326.0	290.0
10°	575.6	575.3	573.7	564.2	552.7	524.4	487.1	434.6	373.3	364.2	313.1
12.5°	625.4	626.0	627.1	623.8	618.3	594.2	555.9	495.3	416.6	407.6	338.9
15°	659.2	660.8	666.6	671.3	674.2	659.4	622.4	557.5	465.1	454.4	367.4
17.5°	676.2	678.0	688.0	702.3	715.5	714.0	684.5	616.8	511.6	501.3	398.1
20°	690.8	692.2	703.4	720.6	743.9	754.2	737.7	673.8	562.6	550.4	430.6
22.5°	733.4	735.2	738.5	748.3	768.9	787.9	779.9	727.8	609.4	597.9	461.4
25°	815.5	817.7	810.4	802.2	806.1	819.3	820.7	777.1	656.7	643.8	494.6
27.5°	914.5	917.6	905.2	883.9	865.3	860.2	858.5	817.4	702.0	687.0	527.4
30°	1011.4	1016.7	1000.6	973.0	938.9	915.0	897.2	856.9	746.6	732.3	558.3
32.5°	1106.1	1104.0	1080.6	1053.7	1013.7	983.7	940.8	899.3	796.8	780.3	589.1
35°	1171.0	1171.7	1150.0	1118.1	1080.0	1056.9	999.1	945.0	848.0	832.8	624.0
37.5°	1226.1	1222.7	1198.2	1168.4	1135.6	1125.7	1067.4	995.3	903.4	886.9	661.2
40°	1244.5	1240.6	1224.5	1203.0	1176.7	1175.9	1142.8	1052.4	966.2	949.8	703.1
42.5°	1233.4	1228.3	1221.7	1215.8	1207.8	1211.5	1213.6	1119.3	1035.1	1016.8	751.6
45°	1192.2	1184.5	1189.2	1201.9	1219.5	1240.5	1277.5	1193.3	1112.3	1097.0	808.6
47.5°	1129.0	1122.0	1136.5	1163.7	1211.5	1264.6	1338.0	1275.1	1204.5	1189.3	889.7
50°	1039.9	1042.0	1062.7	1112.2	1184.4	1275.8	1412.5	1383.4	1338.5	1324.3	1000.4
52.5°	893.9	894.2	952.6	1033.9	1136.5	1270.0	1453.9	1521.7	1521.4	1504.3	1105.7
55°	758.2	766.5	812.7	920.7	1058.8	1247.0	1482.8	1589.0	1641.6	1621.4	1203.9
57.5°	625.7	630.5	674.3	782.8	948.0	1185.5	1512.4	1669.7	1780.0	1767.3	1326.0
60°	475.0	482.4	527.7	627.9	806.2	1076.5	1515.2	1754.0	1945.5	1932.7	1462.3
62.5°	308.3	321.1	363.5	457.4	634.6	919.8	1450.5	1809.1	2102.4	2097.8	1583.3
65°	177.2	186.9	216.3	288.8	437.8	723.0	1296.8	1787.9	2198.9	2196.3	1628.6
66°	144.8	150.8	173.4	225.7	361.3	634.9	1207.4	1743.2	2208.5	2208.6	1623.4
67.5°	115.8	118.5	128.6	161.6	266.6	503.2	1047.7	1644.7	2196.6	2199.8	1589.8
70°	95.8	97.2	100.4	108.3	145.5	303.5	743.6	1388.5	2077.2	2079.7	1458.9
72.5°	85.9	86.8	88.0	89.1	102.7	169.6	454.2	1110.7	1821.2	1824.4	1259.4
75°	77.9	78.3	78.1	78.2	86.1	108.1	234.7	829.3	1472.6	1466.1	964.8
77.5°	68.4	68.9	67.9	68.1	76.2	83.1	116.8	580.6	993.8	947.9	543.6
80°	57.8	58.2	57.8	58.4	66.3	62.7	67.9	326.6	439.4	415.6	193.3
82.5°	43.7	45.3	46.4	49.0	54.6	44.6	45.4	127.2	133.8	127.4	59.3
85°	19.1	23.3	34.9	37.4	41.1	26.8	29.8	51.8	54.5	52.8	21.6
87.5°	5.0	5.5	17.3	21.7	22.8	12.1	15.5	23.6	24.9	23.6	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°	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9	249.9
2.5°	252.7	248.2	240.0	232.8	227.3	223.6	219.8	218.0	216.9	215.8	215.9
5°	260.8	251.6	237.6	227.6	222.1	218.5	216.7	215.9	215.5	214.4	214.4
7.5°	273.0	260.0	240.7	230.4	226.1	223.4	222.3	221.9	221.3	220.0	220.2
10°	288.3	270.1	247.1	237.1	233.1	230.2	228.6	228.0	227.0	225.5	225.7
12.5°	306.4	282.7	255.5	245.1	240.3	236.3	233.7	232.1	230.3	228.4	228.5
15°	326.0	296.3	264.6	252.3	245.7	240.1	235.9	233.2	230.4	228.0	227.9
17.5°	346.0	309.5	271.6	256.2	247.3	239.9	234.2	230.1	226.6	223.7	223.4
20°	367.6	321.4	275.5	255.8	244.3	235.5	228.0	222.8	219.0	216.0	215.6
22.5°	389.5	332.6	276.2	252.0	237.7	227.0	219.1	213.3	209.4	206.4	205.3
25°	409.6	341.2	273.5	244.7	228.5	217.0	209.3	203.4	200.2	196.6	195.5
27.5°	427.9	347.2	268.1	235.3	218.2	206.8	199.6	194.6	191.1	188.3	187.4
30°	444.3	350.5	259.2	224.1	207.6	197.3	191.1	187.7	184.7	181.2	180.5
32.5°	459.9	350.5	247.9	211.9	197.1	188.8	185.2	183.0	179.7	176.3	175.3
35°	475.6	348.4	234.5	199.2	187.4	182.8	182.6	180.1	175.0	170.3	169.1
37.5°	492.0	344.0	219.5	187.3	179.5	180.1	181.7	176.1	168.8	162.2	160.5
40°	510.6	337.9	203.9	177.0	172.9	178.9	179.1	170.3	156.2	150.2	148.6
42.5°	532.4	331.9	189.4	167.9	167.7	175.2	174.4	157.9	149.4	146.3	145.5
45°	561.1	328.5	175.6	159.3	163.6	169.4	166.3	151.0	147.5	145.7	145.0
47.5°	606.4	330.2	163.0	152.4	159.5	163.5	151.3	148.2	145.7	143.6	142.8
50°	663.1	329.2	152.8	147.6	154.9	157.4	144.5	144.6	143.3	140.9	139.7
52.5°	705.7	321.2	146.2	145.0	150.8	146.5	140.2	141.0	140.4	136.9	135.7
55°	746.9	314.3	142.8	143.9	147.8	133.0	135.2	137.2	136.6	133.2	132.6
57.5°	798.1	313.0	140.8	144.2	145.3	126.2	130.4	133.1	132.6	131.1	130.8
60°	860.8	313.4	138.9	144.7	142.5	121.2	125.8	129.2	129.5	129.2	129.1
62.5°	895.3	303.3	134.3	143.4	137.6	116.8	121.1	126.1	126.2	126.7	126.6
65°	866.0	273.0	125.6	138.8	129.3	113.2	117.0	122.5	121.1	123.6	123.6
66°	837.6	255.5	121.4	135.8	125.8	111.8	115.7	120.6	118.8	122.3	122.3
67.5°	779.5	226.1	113.6	129.5	120.8	109.8	114.2	117.5	115.1	120.2	119.9
70°	673.4	174.9	98.1	115.2	112.5	106.9	112.2	111.4	107.9	115.7	114.2
72.5°	567.7	132.9	78.8	96.4	100.0	103.3	109.3	103.6	99.1	104.6	101.4
75°	440.5	99.9	62.3	75.0	84.5	97.7	105.8	94.6	88.2	87.6	85.9
77.5°	238.1	68.6	49.3	57.2	67.1	90.6	103.5	84.9	75.3	73.0	71.6
80°	94.3	44.6	35.9	43.4	46.9	80.4	97.9	73.7	62.1	59.8	57.7
82.5°	38.9	26.4	23.1	29.1	30.6	68.8	87.9	60.4	47.9	66.3	70.4
85°	16.7	14.5	13.8	15.1	17.3	48.2	70.0	46.1	51.8	46.2	36.7
87.5°	5.0	6.1	5.9	5.8	6.3	11.5	37.3	25.6	38.0	14.4	10.8
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)