

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: P348528

Luminaire Tested: **ARCH-N-PA1-20-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348528
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-PA1-20-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2880 lumens
Efficiency: N/A
Efficacy: 120.0 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

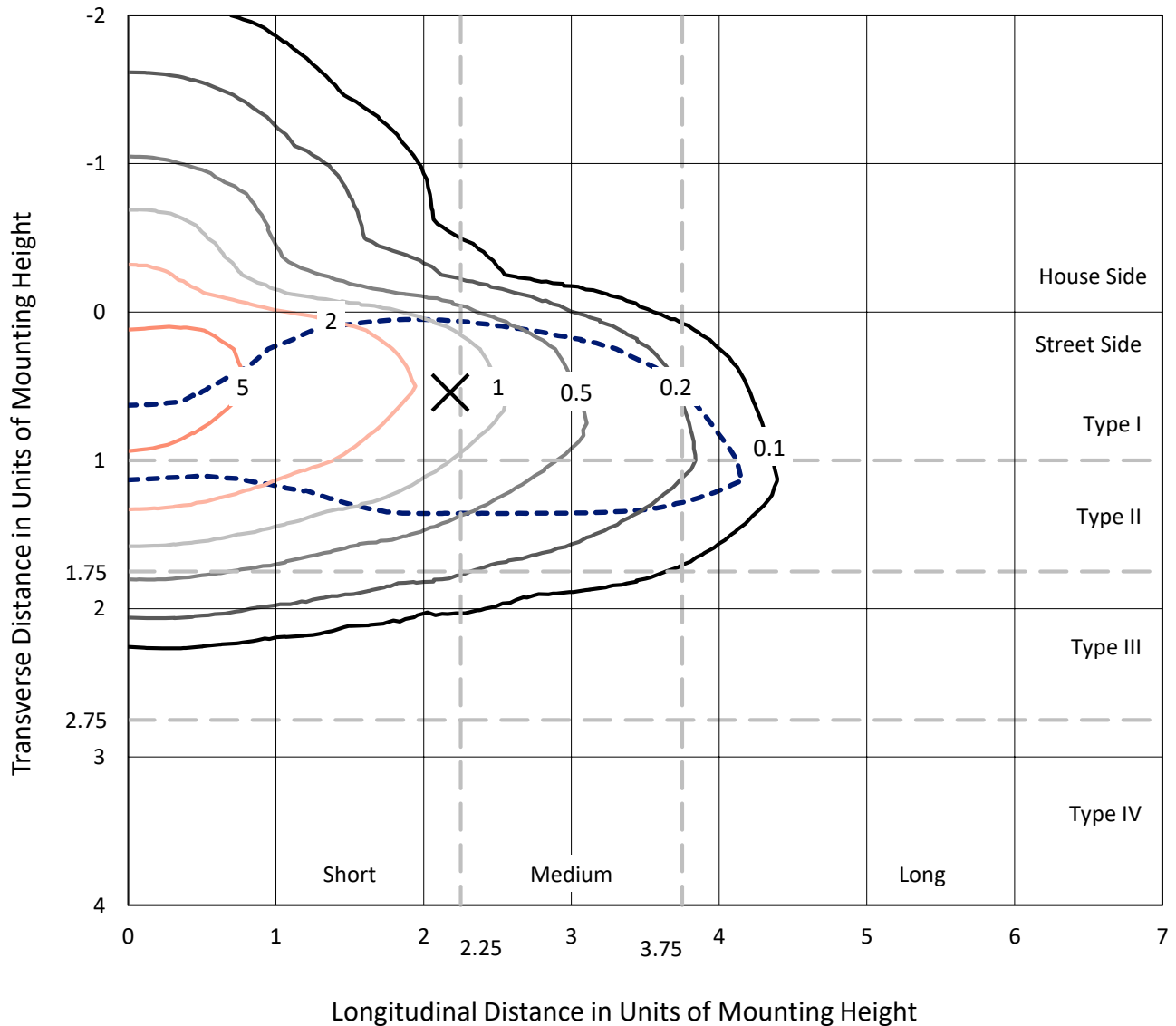
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

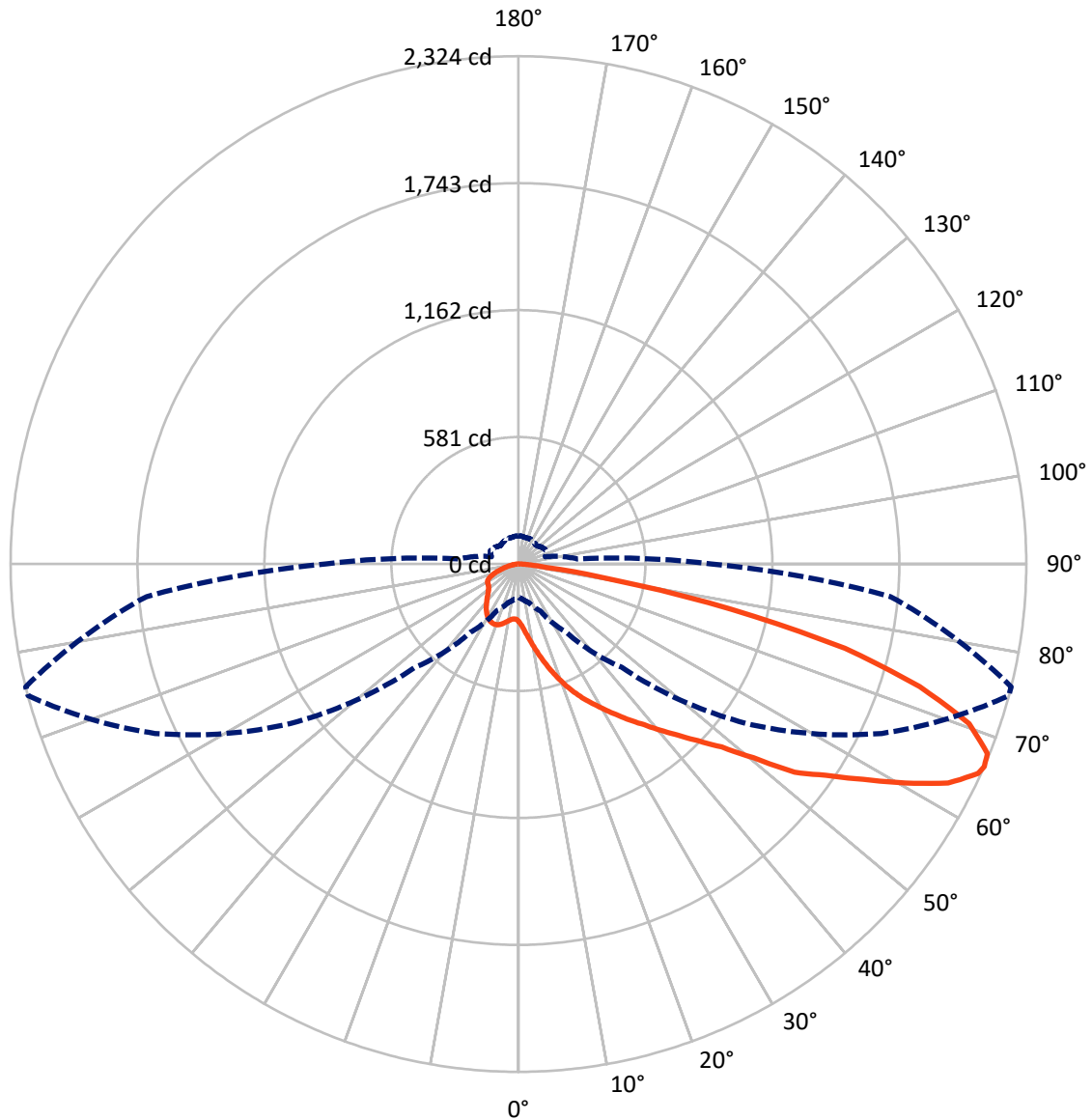
✕ Max cd
 - - - 1/2 Max cd



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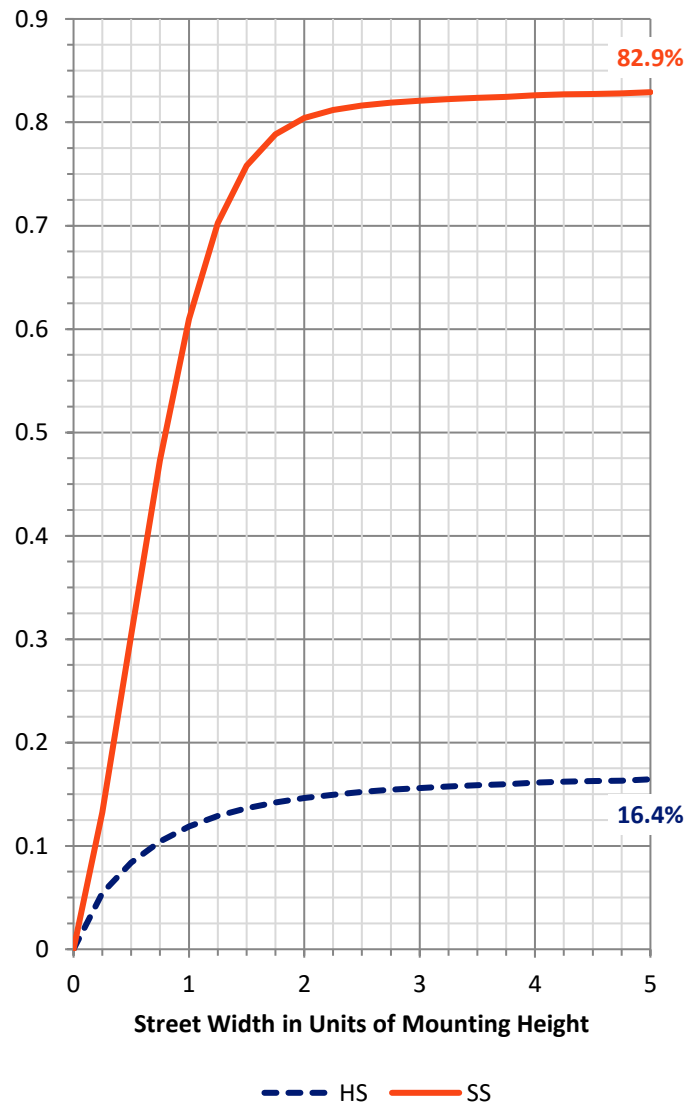
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.6	0.0	484.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2395.4	0.0	2395.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	2880.0	0.0	2880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.1
10°-20°	125.6	4.4
20°-30°	244.1	8.5
30°-40°	398.4	13.8
40°-50°	544.3	18.9
50°-60°	634.0	22.0
60°-70°	568.4	19.7
70°-80°	287.2	10.0
80°-90°	46.4	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°	2880.0	100.0
0°-180°	2880.0	100.0



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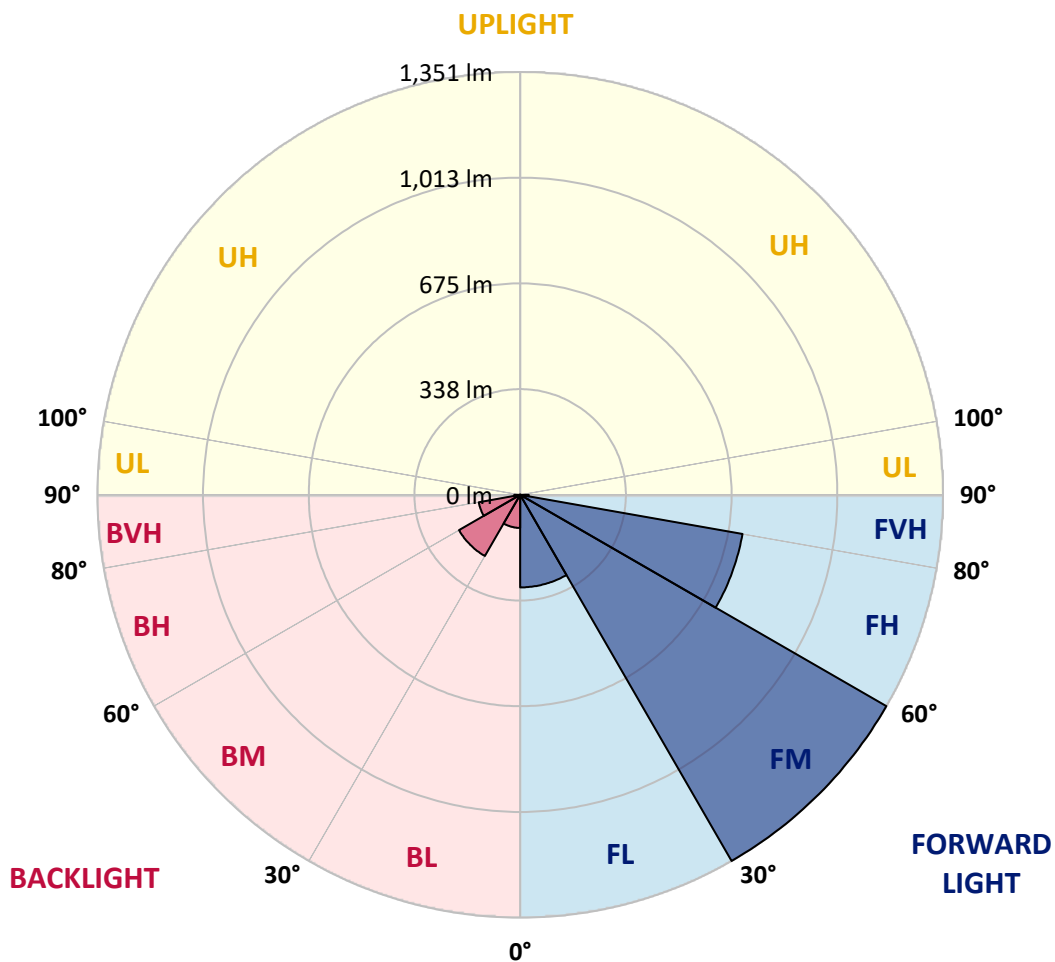
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.8	10.3			
FM (30°-60°)	1350.9	46.9			
FH (60°-80°)	721.3	25.0			G1/1800
FVH (80°-90°)	27.4	1.0			G1/100
BL (0°-30°)	105.7	3.7	B0/110		
BM (30°-60°)	225.7	7.8	B1/1000		
BH (60°-80°)	134.3	4.7	B1/500		G1/500
BVH (80°-90°)	19.0	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°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	349.1	343.9	343.4	335.7	333.9	319.1	308.3	296.9	284.0	281.5	271.3
5°	448.5	448.0	441.2	428.6	418.8	393.5	368.6	342.2	313.3	308.6	285.7
7.5°	537.8	537.1	531.9	518.3	504.0	473.0	437.4	397.0	350.0	343.1	305.1
10°	605.7	605.4	603.6	593.7	581.6	551.8	512.5	457.3	392.8	383.3	329.5
12.5°	658.1	658.7	659.9	656.3	650.6	625.3	585.0	521.2	438.3	428.9	356.6
15°	693.6	695.4	701.4	706.4	709.4	693.9	654.9	586.6	489.4	478.1	386.6
17.5°	711.5	713.4	723.9	739.0	752.9	751.3	720.3	649.0	538.3	527.5	418.9
20°	726.9	728.4	740.1	758.2	782.8	793.6	776.2	709.0	592.0	579.1	453.1
22.5°	771.7	773.6	777.1	787.4	809.1	829.0	820.6	765.9	641.2	629.2	485.5
25°	858.2	860.4	852.8	844.1	848.2	862.1	863.6	817.7	691.1	677.5	520.4
27.5°	962.3	965.5	952.5	930.1	910.6	905.2	903.3	860.1	738.7	722.9	555.0
30°	1064.3	1069.8	1052.9	1023.9	988.0	962.8	944.1	901.7	785.6	770.5	587.5
32.5°	1163.9	1161.6	1137.1	1108.7	1066.7	1035.1	990.0	946.2	838.4	821.1	619.9
35°	1232.1	1232.9	1210.1	1176.5	1136.4	1112.2	1051.4	994.3	892.3	876.3	656.6
37.5°	1290.2	1286.6	1260.8	1229.4	1194.9	1184.5	1123.2	1047.3	950.6	933.2	695.8
40°	1309.6	1305.4	1288.5	1265.9	1238.2	1237.3	1202.5	1107.4	1016.6	999.4	739.8
42.5°	1297.8	1292.5	1285.5	1279.4	1270.9	1274.8	1277.0	1177.8	1089.2	1069.9	790.9
45°	1254.5	1246.4	1251.3	1264.7	1283.2	1305.3	1344.3	1255.7	1170.4	1154.3	850.8
47.5°	1187.9	1180.6	1195.9	1224.5	1274.8	1330.7	1407.9	1341.7	1267.4	1251.4	936.2
50°	1094.3	1096.4	1118.2	1170.3	1246.3	1342.4	1486.3	1455.6	1408.4	1393.5	1052.6
52.5°	940.6	941.0	1002.4	1087.9	1195.9	1336.4	1529.9	1601.2	1600.9	1582.8	1163.5
55°	797.8	806.5	855.1	968.8	1114.1	1312.1	1560.3	1672.0	1727.4	1706.1	1266.8
57.5°	658.4	663.5	709.5	823.7	997.5	1247.5	1591.4	1757.0	1873.0	1859.6	1395.3
60°	499.8	507.6	555.3	660.7	848.3	1132.8	1594.4	1845.7	2047.2	2033.7	1538.7
62.5°	324.4	337.9	382.5	481.3	667.8	967.9	1526.3	1903.6	2212.2	2207.4	1666.0
65°	186.5	196.6	227.6	303.9	460.7	760.8	1364.5	1881.3	2313.8	2311.1	1713.7
66°	152.3	158.7	182.4	237.5	380.1	668.1	1270.5	1834.3	2323.9	2324.0	1708.2
67.5°	121.8	124.7	135.3	170.0	280.5	529.5	1102.4	1730.6	2311.4	2314.8	1672.9
70°	100.8	102.3	105.6	114.0	153.1	319.3	782.5	1461.0	2185.7	2188.4	1535.1
72.5°	90.4	91.3	92.6	93.8	108.0	178.4	477.9	1168.8	1916.3	1919.8	1325.2
75°	81.9	82.4	82.2	82.3	90.6	113.7	247.0	872.6	1549.5	1542.7	1015.2
77.5°	72.0	72.4	71.5	71.7	80.2	87.4	122.9	610.9	1045.7	997.4	572.0
80°	60.8	61.2	60.8	61.5	69.8	66.0	71.5	343.7	462.4	437.3	203.4
82.5°	46.0	47.6	48.8	51.5	57.5	46.9	47.8	133.9	140.8	134.0	62.4
85°	20.1	24.5	36.8	39.4	43.2	28.2	31.4	54.6	57.3	55.5	22.7
87.5°	5.3	5.8	18.2	22.9	24.0	12.7	16.3	24.8	26.2	24.8	7.5
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°	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
2.5°	265.9	261.2	252.5	244.9	239.2	235.2	231.3	229.4	228.2	227.0	227.2
5°	274.4	264.8	250.0	239.5	233.7	230.0	228.0	227.2	226.7	225.6	225.6
7.5°	287.3	273.6	253.2	242.5	237.9	235.0	233.9	233.5	232.9	231.5	231.7
10°	303.4	284.2	260.0	249.5	245.3	242.2	240.5	239.9	238.9	237.3	237.5
12.5°	322.4	297.4	268.9	257.9	252.8	248.6	245.9	244.2	242.4	240.3	240.4
15°	343.1	311.8	278.5	265.5	258.5	252.6	248.2	245.4	242.5	239.9	239.8
17.5°	364.1	325.7	285.8	269.6	260.2	252.4	246.5	242.1	238.5	235.3	235.0
20°	386.8	338.2	289.9	269.2	257.0	247.9	239.9	234.5	230.5	227.3	226.8
22.5°	409.9	349.9	290.6	265.2	250.1	238.9	230.5	224.5	220.4	217.2	216.0
25°	431.0	359.0	287.7	257.4	240.4	228.3	220.2	214.0	210.7	206.9	205.7
27.5°	450.2	365.4	282.1	247.6	229.6	217.6	210.0	204.7	201.1	198.2	197.2
30°	467.5	368.8	272.8	235.8	218.4	207.6	201.1	197.5	194.4	190.7	190.0
32.5°	484.0	368.8	260.9	223.0	207.4	198.7	194.9	192.6	189.1	185.5	184.5
35°	500.4	366.6	246.8	209.6	197.2	192.3	192.1	189.5	184.1	179.2	177.9
37.5°	517.7	362.0	230.9	197.1	188.9	189.5	191.1	185.3	177.7	170.7	168.9
40°	537.3	355.6	214.5	186.3	182.0	188.2	188.5	179.2	164.4	158.0	156.3
42.5°	560.2	349.2	199.3	176.7	176.5	184.4	183.5	166.1	157.2	154.0	153.1
45°	590.5	345.6	184.8	167.6	172.2	178.2	175.0	158.9	155.2	153.3	152.5
47.5°	638.1	347.5	171.5	160.3	167.9	172.1	159.2	155.9	153.3	151.1	150.3
50°	697.7	346.4	160.7	155.4	163.0	165.6	152.0	152.1	150.8	148.2	147.1
52.5°	742.6	338.0	153.8	152.5	158.7	154.2	147.5	148.4	147.7	144.0	142.7
55°	785.9	330.8	150.3	151.5	155.6	139.9	142.3	144.4	143.7	140.1	139.5
57.5°	839.8	329.4	148.1	151.7	152.9	132.8	137.2	140.0	139.5	138.0	137.7
60°	905.8	329.8	146.2	152.2	150.0	127.5	132.4	136.0	136.3	136.0	135.8
62.5°	942.0	319.1	141.3	150.9	144.8	122.9	127.4	132.7	132.8	133.4	133.3
65°	911.2	287.3	132.2	146.1	136.1	119.1	123.1	128.9	127.4	130.0	130.0
66°	881.3	268.9	127.7	142.9	132.4	117.6	121.7	126.9	125.1	128.7	128.7
67.5°	820.2	237.9	119.6	136.3	127.1	115.6	120.2	123.7	121.1	126.5	126.1
70°	708.6	184.0	103.2	121.2	118.4	112.5	118.0	117.2	113.5	121.7	120.2
72.5°	597.4	139.8	82.9	101.5	105.2	108.7	115.0	109.0	104.3	110.1	106.7
75°	463.5	105.1	65.5	78.9	88.9	102.8	111.4	99.5	92.8	92.2	90.3
77.5°	250.6	72.2	51.9	60.2	70.6	95.3	108.9	89.4	79.2	76.8	75.4
80°	99.2	46.9	37.7	45.7	49.4	84.6	103.1	77.5	65.3	63.0	60.7
82.5°	41.0	27.8	24.3	30.6	32.2	72.4	92.5	63.6	50.5	69.8	74.1
85°	17.6	15.3	14.5	15.8	18.2	50.7	73.6	48.5	54.5	48.6	38.6
87.5°	5.3	6.5	6.2	6.1	6.6	12.1	39.2	27.0	40.0	15.2	11.3
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)