

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: P348529

Luminaire Tested: **ARCH-N-PA1-30-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348529
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-PA1-30-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3704 lumens
Efficiency: N/A
Efficacy: 119.5 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

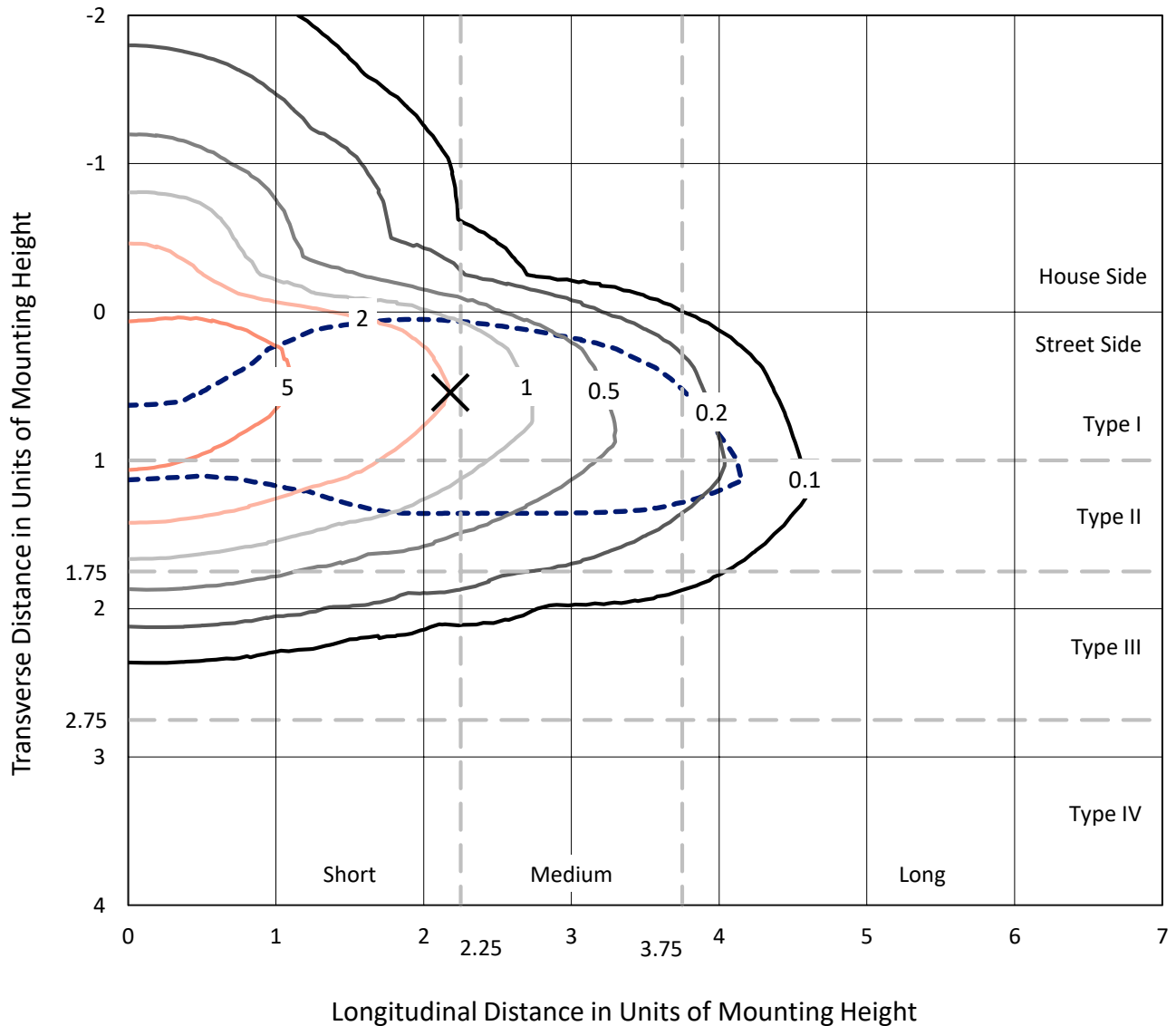
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

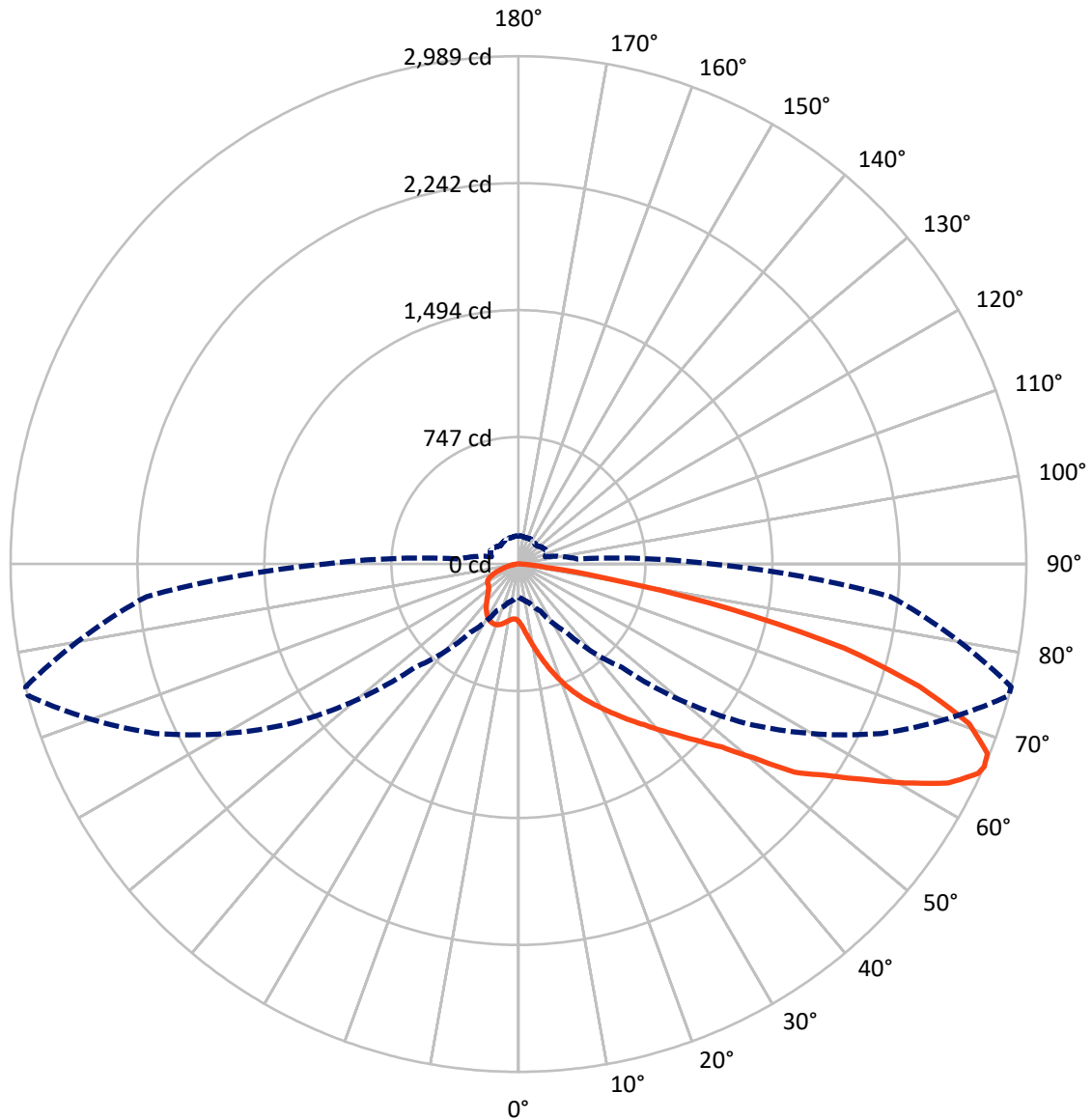
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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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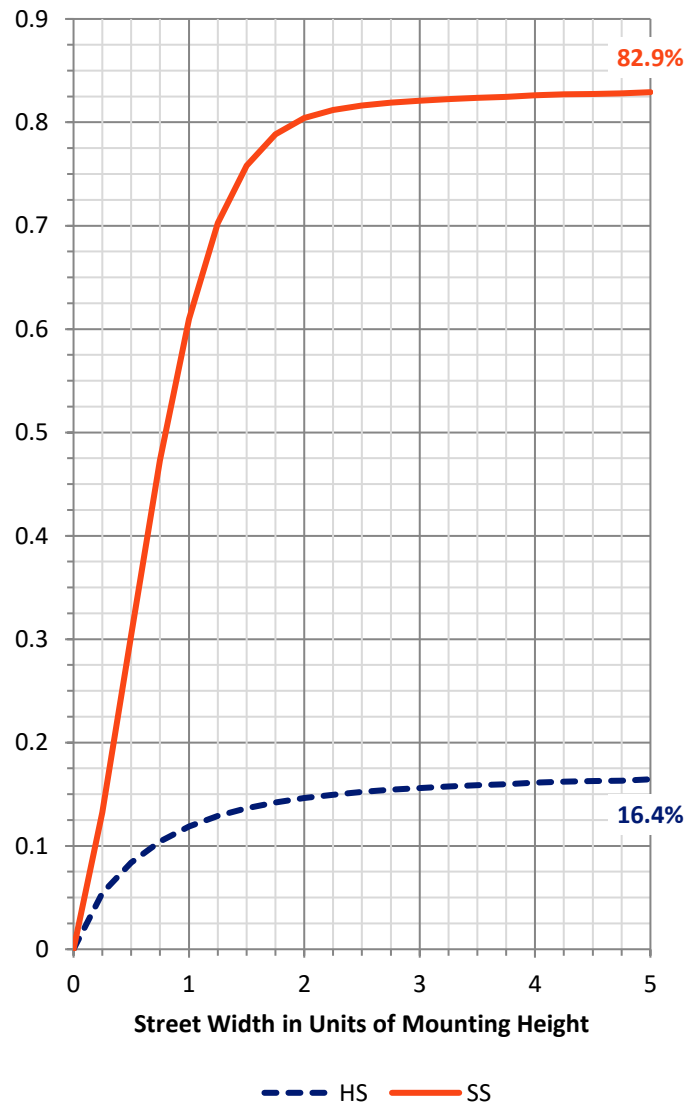
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.3	0.0	623.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3080.7	0.0	3080.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	3704.0	0.0	3704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.1
10°-20°	161.5	4.4
20°-30°	313.9	8.5
30°-40°	512.3	13.8
40°-50°	700.0	18.9
50°-60°	815.3	22.0
60°-70°	731.0	19.7
70°-80°	369.4	10.0
80°-90°	59.7	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°	3704.0	100.0
0°-180°	3704.0	100.0

Coefficient of Utilization



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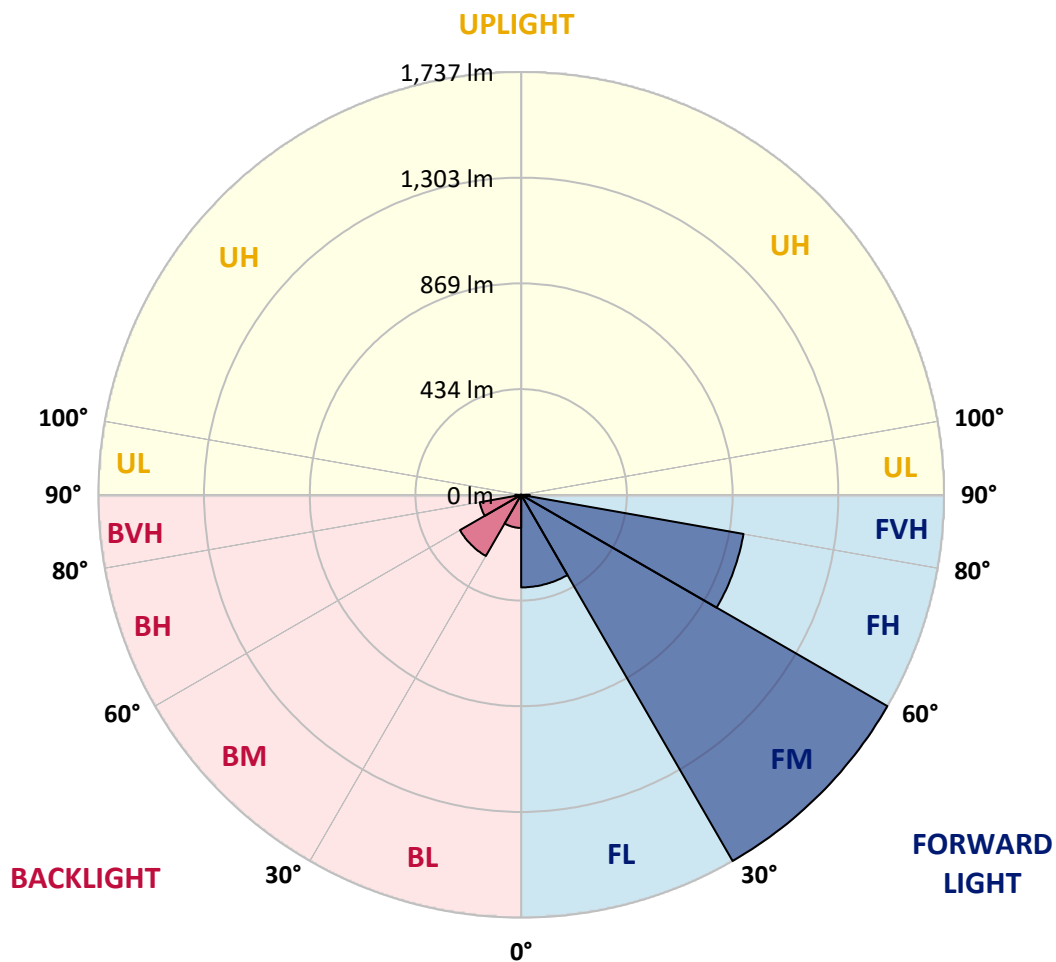
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.4	10.3			
FM	(30°-60°)	1737.4	46.9			
FH	(60°-80°)	927.7	25.0			G1/1800
FVH	(80°-90°)	35.2	1.0			G1/100
BL	(0°-30°)	135.9	3.7	B1/500		
BM	(30°-60°)	290.2	7.8	B1/1000		
BH	(60°-80°)	172.7	4.7	B1/500		G1/500
BVH	(80°-90°)	24.4	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°	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3
2.5°	449.0	442.3	441.6	431.7	429.4	410.4	396.5	381.9	365.3	362.0	348.9
5°	576.8	576.2	567.5	551.3	538.6	506.1	474.1	440.1	402.9	396.9	367.4
7.5°	691.7	690.7	684.1	666.6	648.2	608.4	562.6	510.5	450.2	441.2	392.5
10°	779.0	778.6	776.4	763.5	747.9	709.7	659.2	588.1	505.1	492.9	423.8
12.5°	846.4	847.2	848.7	844.1	836.7	804.2	752.3	670.4	563.7	551.7	458.6
15°	892.0	894.3	902.1	908.5	912.4	892.4	842.3	754.5	629.4	614.9	497.2
17.5°	915.1	917.6	931.0	950.4	968.2	966.2	926.4	834.7	692.4	678.4	538.7
20°	934.9	936.8	951.9	975.2	1006.7	1020.7	998.3	911.9	761.4	744.8	582.7
22.5°	992.5	994.9	999.4	1012.6	1040.6	1066.2	1055.4	985.0	824.6	809.2	624.5
25°	1103.7	1106.6	1096.8	1085.6	1090.9	1108.7	1110.7	1051.6	888.8	871.3	669.3
27.5°	1237.6	1241.7	1225.0	1196.2	1171.1	1164.2	1161.8	1106.2	950.0	929.8	713.7
30°	1368.8	1375.9	1354.2	1316.8	1270.7	1238.2	1214.2	1159.6	1010.4	991.0	755.6
32.5°	1496.9	1494.0	1462.4	1426.0	1371.9	1331.3	1273.2	1217.0	1078.3	1056.0	797.2
35°	1584.7	1585.7	1556.4	1513.1	1461.6	1430.4	1352.2	1278.8	1147.6	1127.1	844.5
37.5°	1659.4	1654.7	1621.5	1581.1	1536.8	1523.4	1444.6	1347.0	1222.6	1200.3	894.8
40°	1684.3	1678.8	1657.1	1628.0	1592.5	1591.3	1546.6	1424.2	1307.5	1285.4	951.5
42.5°	1669.2	1662.2	1653.3	1645.4	1634.5	1639.5	1642.4	1514.7	1400.8	1376.0	1017.2
45°	1613.5	1603.0	1609.3	1626.5	1650.3	1678.7	1728.9	1615.0	1505.3	1484.6	1094.2
47.5°	1527.8	1518.4	1538.0	1574.9	1639.5	1711.4	1810.8	1725.6	1630.1	1609.4	1204.0
50°	1407.4	1410.1	1438.2	1505.2	1602.9	1726.5	1911.6	1872.1	1811.4	1792.1	1353.8
52.5°	1209.7	1210.2	1289.2	1399.2	1538.0	1718.7	1967.6	2059.4	2059.0	2035.7	1496.4
55°	1026.1	1037.3	1099.8	1246.0	1432.9	1687.5	2006.7	2150.4	2221.6	2194.3	1629.3
57.5°	846.8	853.3	912.5	1059.4	1282.9	1604.4	2046.8	2259.7	2408.9	2391.7	1794.5
60°	642.8	652.9	714.1	849.8	1091.0	1456.9	2050.6	2373.7	2632.9	2615.5	1979.0
62.5°	417.2	434.6	491.9	619.1	858.9	1244.8	1963.0	2448.3	2845.1	2839.0	2142.7
65°	239.8	252.9	292.7	390.8	592.5	978.4	1754.9	2419.6	2975.8	2972.3	2204.0
66°	195.9	204.1	234.6	305.4	488.9	859.2	1634.0	2359.1	2988.7	2988.9	2196.9
67.5°	156.7	160.3	174.0	218.7	360.8	681.0	1417.8	2225.7	2972.7	2977.1	2151.5
70°	129.6	131.5	135.8	146.6	196.9	410.7	1006.4	1879.0	2811.1	2814.5	1974.3
72.5°	116.3	117.4	119.1	120.6	139.0	229.5	614.7	1503.2	2464.6	2469.0	1704.4
75°	105.4	106.0	105.8	105.9	116.6	146.2	317.6	1122.3	1992.8	1984.0	1305.6
77.5°	92.5	93.2	91.9	92.2	103.1	112.4	158.1	785.7	1344.9	1282.7	735.6
80°	78.2	78.7	78.2	79.1	89.8	84.9	91.9	442.0	594.7	562.5	261.6
82.5°	59.1	61.2	62.7	66.3	73.9	60.4	61.5	172.1	181.1	172.4	80.2
85°	25.9	31.6	47.3	50.7	55.6	36.2	40.4	70.2	73.7	71.4	29.2
87.5°	6.8	7.4	23.4	29.4	30.8	16.3	21.0	31.9	33.7	31.9	9.7
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°	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3	338.3
2.5°	342.0	335.9	324.8	315.0	307.6	302.5	297.5	295.0	293.5	292.0	292.2
5°	353.0	340.5	321.5	308.1	300.5	295.8	293.2	292.2	291.6	290.1	290.1
7.5°	369.4	351.8	325.7	311.9	305.9	302.3	300.8	300.3	299.5	297.8	298.0
10°	390.2	365.5	334.4	320.9	315.5	311.5	309.3	308.6	307.2	305.2	305.4
12.5°	414.6	382.5	345.8	331.7	325.2	319.8	316.3	314.1	311.7	309.1	309.2
15°	441.2	401.0	358.1	341.4	332.5	324.9	319.3	315.6	311.9	308.6	308.5
17.5°	468.3	418.9	367.6	346.7	334.6	324.7	317.0	311.3	306.7	302.7	302.3
20°	497.5	435.0	372.8	346.2	330.6	318.8	308.6	301.5	296.4	292.4	291.7
22.5°	527.1	450.0	373.7	341.0	321.7	307.2	296.5	288.7	283.4	279.3	277.8
25°	554.3	461.7	370.1	331.1	309.2	293.6	283.2	275.3	271.0	266.1	264.6
27.5°	579.1	469.9	362.8	318.4	295.3	279.9	270.1	263.3	258.7	254.9	253.6
30°	601.3	474.3	350.8	303.3	280.9	267.0	258.7	254.0	250.0	245.2	244.3
32.5°	622.4	474.3	335.5	286.8	266.7	255.5	250.6	247.7	243.2	238.5	237.3
35°	643.6	471.4	317.4	269.6	253.6	247.3	247.1	243.7	236.8	230.5	228.9
37.5°	665.8	465.5	297.0	253.5	242.9	243.7	245.8	238.3	228.5	219.6	217.2
40°	691.0	457.3	275.9	239.5	234.0	242.1	242.4	230.5	211.4	203.2	201.1
42.5°	720.5	449.2	256.3	227.2	227.0	237.2	236.0	213.6	202.2	198.1	196.9
45°	759.4	444.5	237.7	215.5	221.4	229.2	225.1	204.3	199.6	197.2	196.2
47.5°	820.6	446.9	220.6	206.2	215.9	221.3	204.7	200.6	197.2	194.3	193.3
50°	897.3	445.5	206.7	199.8	209.6	213.0	195.5	195.7	193.9	190.6	189.1
52.5°	955.0	434.7	197.8	196.2	204.1	198.3	189.8	190.9	190.0	185.2	183.6
55°	1010.8	425.4	193.3	194.8	200.1	179.9	183.0	185.7	184.8	180.2	179.4
57.5°	1080.0	423.6	190.5	195.2	196.7	170.8	176.4	180.1	179.4	177.4	177.1
60°	1164.9	424.1	188.0	195.8	192.9	164.0	170.3	174.9	175.3	174.9	174.7
62.5°	1211.6	410.4	181.7	194.0	186.2	158.1	163.8	170.6	170.8	171.5	171.4
65°	1172.0	369.4	170.0	187.9	175.0	153.2	158.3	165.7	163.8	167.2	167.2
66°	1133.5	345.8	164.2	183.8	170.3	151.3	156.6	163.2	160.8	165.5	165.5
67.5°	1054.9	305.9	153.8	175.3	163.5	148.6	154.5	159.1	155.8	162.7	162.2
70°	911.3	236.7	132.8	155.9	152.3	144.7	151.8	150.8	146.0	156.6	154.5
72.5°	768.3	179.8	106.6	130.5	135.3	139.8	147.9	140.2	134.2	141.6	137.2
75°	596.2	135.2	84.3	101.5	114.3	132.2	143.2	128.0	119.3	118.6	116.2
77.5°	322.3	92.8	66.8	77.5	90.8	122.6	140.1	114.9	101.9	98.8	97.0
80°	127.6	60.4	48.5	58.7	63.5	108.8	132.5	99.7	84.0	81.0	78.1
82.5°	52.7	35.7	31.3	39.4	41.4	93.1	119.0	81.7	64.9	89.8	95.3
85°	22.6	19.6	18.6	20.4	23.4	65.3	94.7	62.4	70.0	62.5	49.7
87.5°	6.8	8.3	7.9	7.8	8.6	15.6	50.4	34.7	51.4	19.5	14.6
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)