

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: P348535

Luminaire Tested: **ARCH-N-PA1-20-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348535
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-PA1-20-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3137 lumens
Efficiency: N/A
Efficacy: 130.7 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

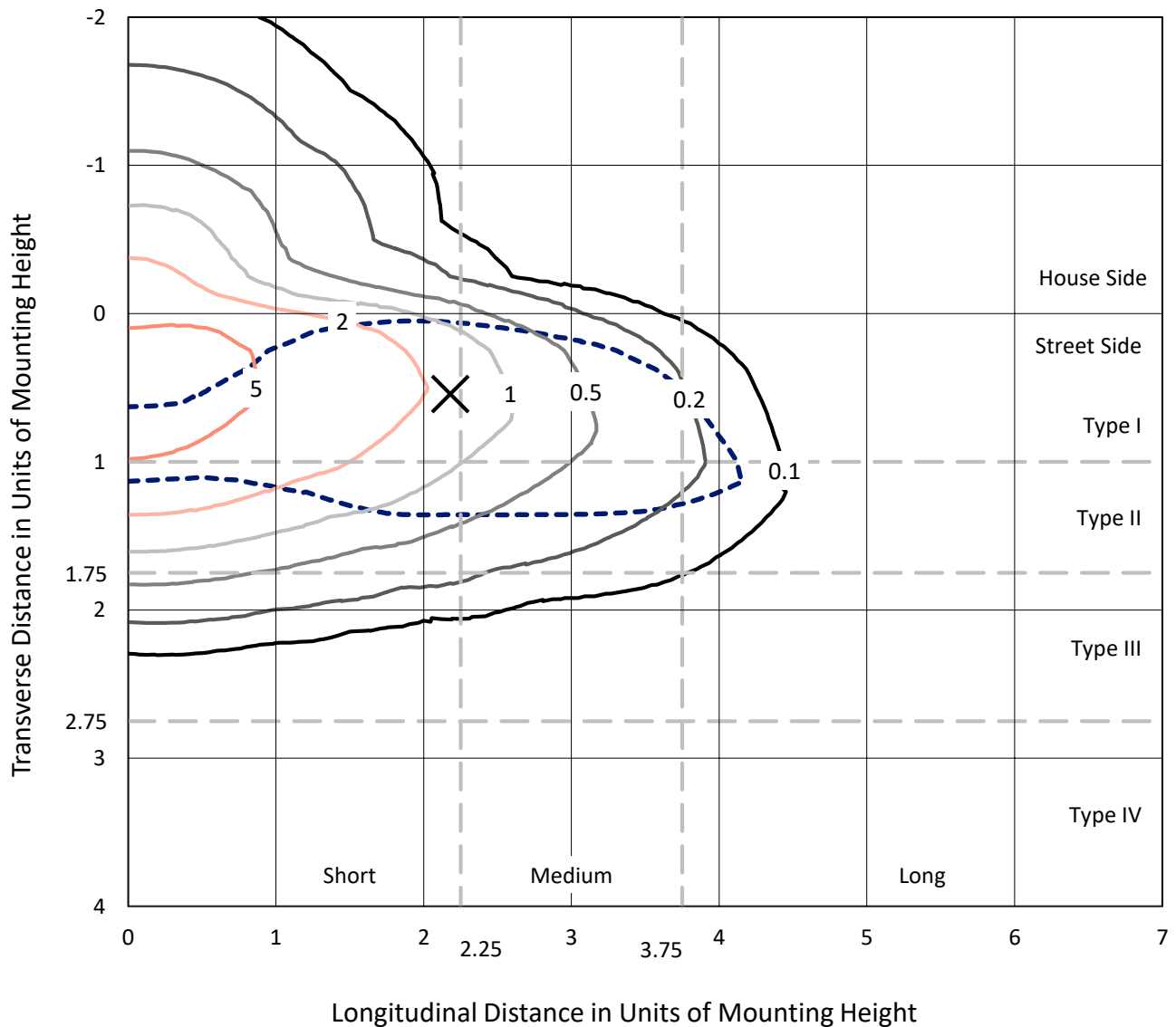
Input Watts (W): 24
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

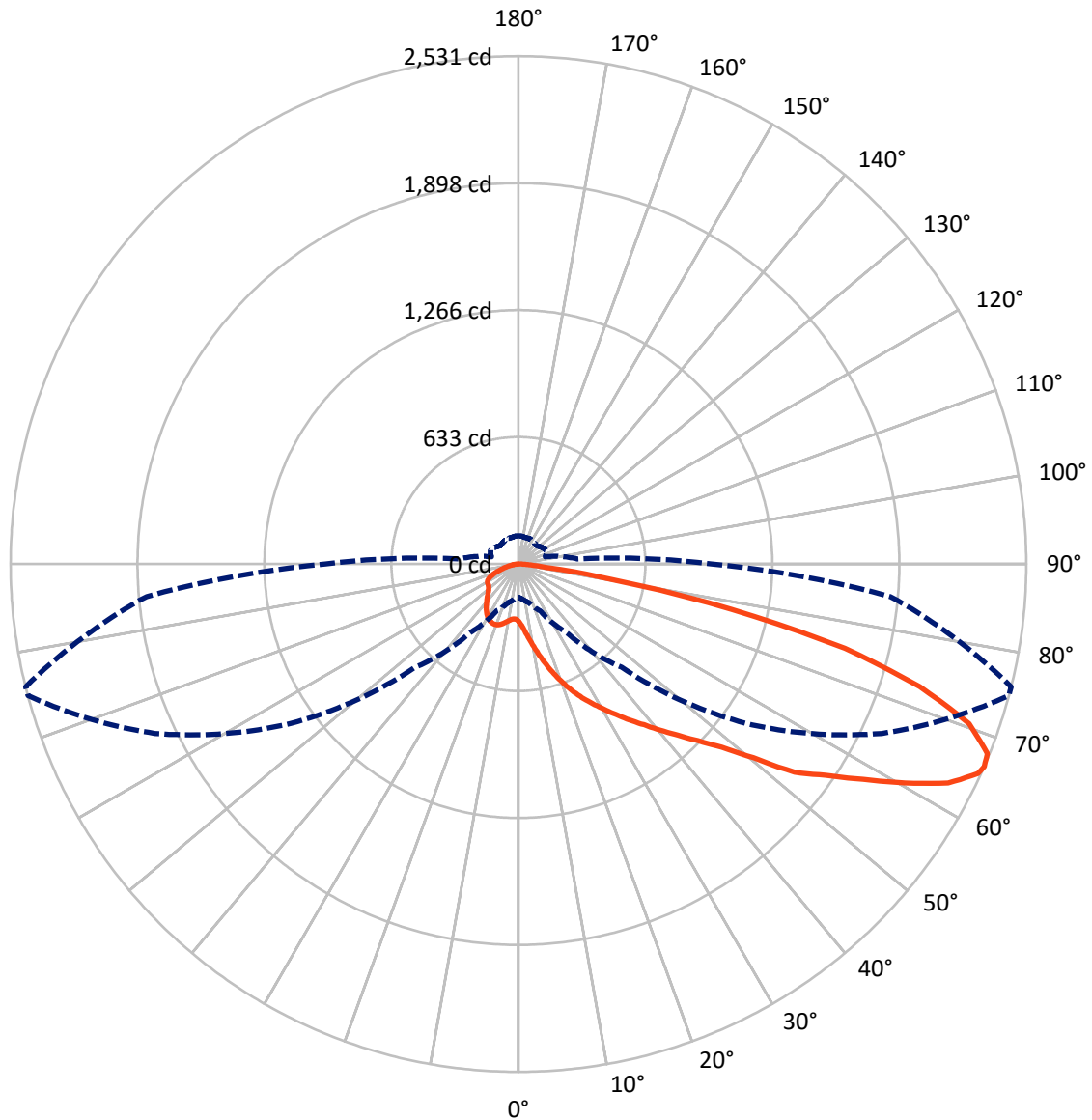
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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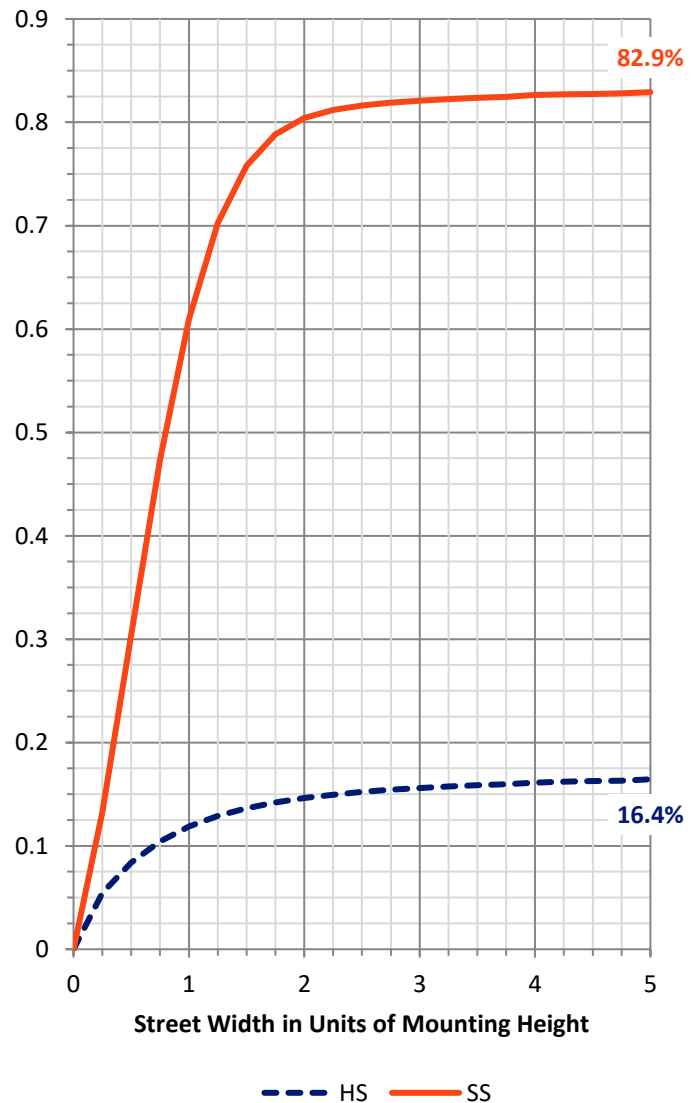
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	527.8	0.0	527.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2609.2	0.0	2609.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	3137.0	0.0	3137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	1.1
10°-20°	136.8	4.4
20°-30°	265.8	8.5
30°-40°	433.9	13.8
40°-50°	592.8	18.9
50°-60°	690.5	22.0
60°-70°	619.1	19.7
70°-80°	312.9	10.0
80°-90°	50.5	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°	3137.0	100.0
0°-180°	3137.0	100.0

Coefficient of Utilization



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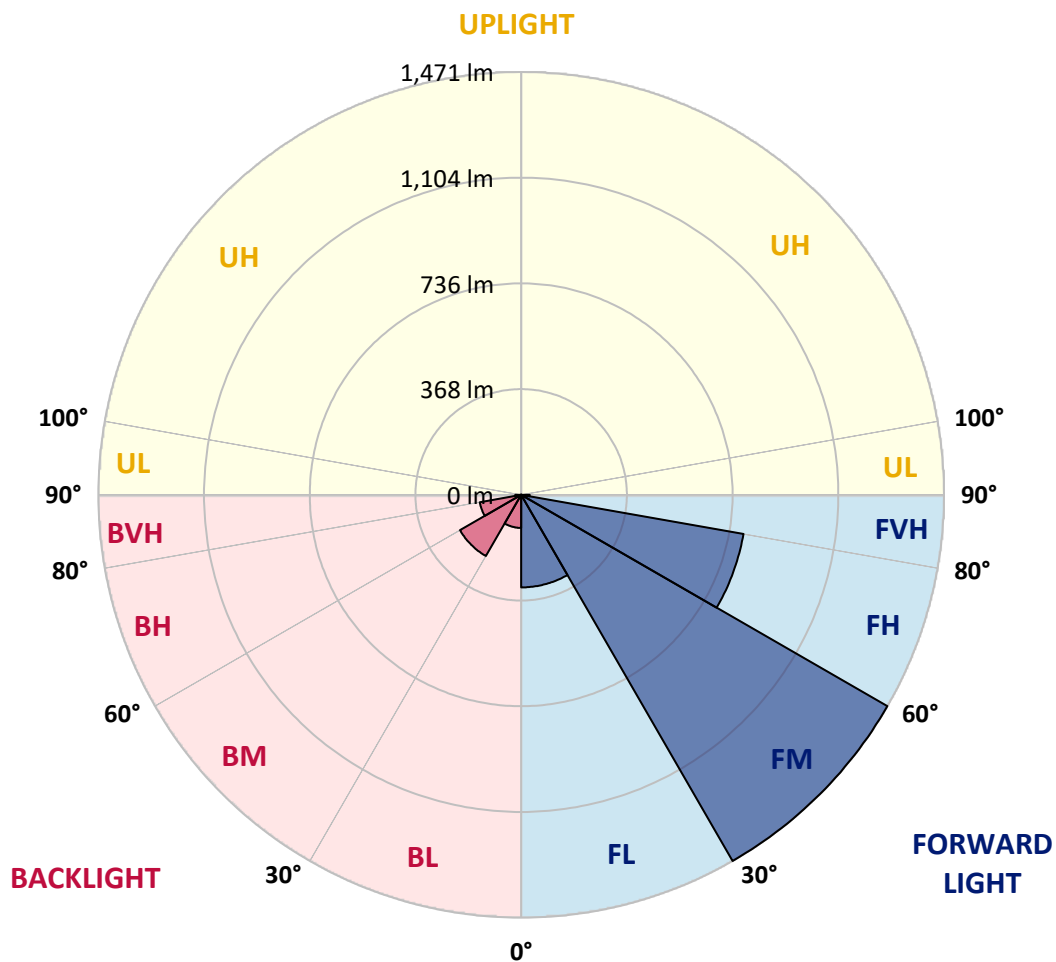
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.2	10.3			
FM (30°-60°)	1471.5	46.9			
FH (60°-80°)	785.7	25.0			G1/1800
FVH (80°-90°)	29.8	1.0			G1/100
BL (0°-30°)	115.1	3.7	B1/500		
BM (30°-60°)	245.8	7.8	B1/1000		
BH (60°-80°)	146.2	4.7	B1/500		G1/500
BVH (80°-90°)	20.7	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°	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5
2.5°	380.3	374.6	374.0	365.6	363.7	347.6	335.8	323.4	309.4	306.6	295.5
5°	488.5	488.0	480.6	466.9	456.1	428.7	401.5	372.7	341.2	336.1	311.2
7.5°	585.8	585.0	579.3	564.5	549.0	515.2	476.5	432.4	381.3	373.7	332.4
10°	659.8	659.4	657.5	646.7	633.4	601.1	558.3	498.1	427.8	417.5	358.9
12.5°	716.8	717.5	718.8	714.9	708.6	681.1	637.2	567.7	477.4	467.2	388.4
15°	755.5	757.4	764.0	769.4	772.7	755.8	713.3	639.0	533.0	520.8	421.1
17.5°	775.0	777.1	788.5	804.9	820.0	818.3	784.6	706.9	586.4	574.6	456.2
20°	791.8	793.4	806.2	825.9	852.6	864.4	845.5	772.3	644.8	630.8	493.5
22.5°	840.6	842.6	846.4	857.6	881.3	903.0	893.8	834.2	698.4	685.3	528.9
25°	934.7	937.2	928.9	919.4	923.9	939.0	940.7	890.6	752.7	737.9	566.9
27.5°	1048.2	1051.7	1037.5	1013.1	991.8	986.0	983.9	936.9	804.6	787.4	604.5
30°	1159.2	1165.3	1146.9	1115.2	1076.2	1048.7	1028.3	982.1	855.7	839.3	639.9
32.5°	1267.7	1265.3	1238.6	1207.7	1161.9	1127.5	1078.3	1030.7	913.2	894.4	675.2
35°	1342.1	1342.9	1318.1	1281.5	1237.8	1211.4	1145.2	1083.1	971.9	954.5	715.2
37.5°	1405.3	1401.4	1373.3	1339.1	1301.5	1290.2	1223.4	1140.8	1035.5	1016.5	757.8
40°	1426.4	1421.9	1403.4	1378.8	1348.7	1347.7	1309.8	1206.2	1107.4	1088.6	805.9
42.5°	1413.7	1407.8	1400.2	1393.5	1384.3	1388.5	1391.0	1282.9	1186.4	1165.4	861.5
45°	1366.5	1357.6	1363.0	1377.5	1397.7	1421.7	1464.2	1367.8	1274.9	1257.3	926.7
47.5°	1293.9	1286.0	1302.6	1333.8	1388.5	1449.4	1533.6	1461.5	1380.5	1363.1	1019.7
50°	1191.9	1194.3	1218.0	1274.8	1357.5	1462.2	1619.0	1585.5	1534.1	1517.8	1146.6
52.5°	1024.5	1024.9	1091.8	1185.0	1302.6	1455.6	1666.4	1744.1	1743.8	1724.1	1267.3
55°	869.0	878.5	931.4	1055.3	1213.5	1429.2	1699.5	1821.2	1881.5	1858.4	1379.9
57.5°	717.2	722.7	772.9	897.2	1086.5	1358.8	1733.5	1913.8	2040.2	2025.6	1519.8
60°	544.4	552.9	604.8	719.7	924.0	1233.9	1736.7	2010.4	2229.8	2215.2	1676.1
62.5°	353.4	368.1	416.6	524.3	727.4	1054.2	1662.5	2073.5	2409.6	2404.4	1814.7
65°	203.1	214.2	247.9	331.0	501.8	828.7	1486.3	2049.2	2520.3	2517.3	1866.6
66°	165.9	172.8	198.7	258.7	414.1	727.7	1383.8	1998.0	2531.2	2531.3	1860.6
67.5°	132.7	135.8	147.4	185.2	305.5	576.8	1200.8	1885.0	2517.6	2521.3	1822.2
70°	109.8	111.4	115.0	124.2	166.8	347.8	852.3	1591.4	2380.8	2383.6	1672.1
72.5°	98.5	99.5	100.9	102.1	117.7	194.4	520.6	1273.1	2087.4	2091.1	1443.5
75°	89.2	89.8	89.6	89.7	98.7	123.9	269.0	950.5	1687.8	1680.3	1105.8
77.5°	78.4	78.9	77.8	78.1	87.3	95.2	133.9	665.4	1139.0	1086.4	623.0
80°	66.2	66.7	66.2	67.0	76.0	71.9	77.8	374.3	503.6	476.4	221.5
82.5°	50.1	51.9	53.1	56.1	62.6	51.1	52.1	145.8	153.4	146.0	67.9
85°	21.9	26.7	40.0	42.9	47.1	30.7	34.2	59.4	62.4	60.5	24.7
87.5°	5.8	6.3	19.8	24.9	26.1	13.8	17.8	27.1	28.5	27.1	8.2
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°	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5	286.5
2.5°	289.7	284.5	275.1	266.8	260.5	256.2	252.0	249.8	248.6	247.3	247.5
5°	298.9	288.4	272.3	260.9	254.5	250.5	248.4	247.5	247.0	245.7	245.7
7.5°	312.9	298.0	275.8	264.1	259.1	256.0	254.7	254.3	253.7	252.2	252.4
10°	330.5	309.6	283.2	271.8	267.2	263.8	262.0	261.3	260.2	258.5	258.7
12.5°	351.1	324.0	292.9	280.9	275.4	270.8	267.8	266.0	264.0	261.8	261.9
15°	373.7	339.6	303.3	289.1	281.6	275.2	270.4	267.3	264.1	261.3	261.2
17.5°	396.6	354.7	311.3	293.6	283.4	275.0	268.5	263.7	259.7	256.3	256.0
20°	421.3	368.4	315.8	293.2	280.0	270.0	261.3	255.4	251.0	247.6	247.1
22.5°	446.4	381.2	316.5	288.8	272.4	260.2	251.1	244.5	240.0	236.5	235.3
25°	469.4	391.1	313.4	280.4	261.9	248.7	239.8	233.1	229.5	225.3	224.1
27.5°	490.4	398.0	307.2	269.7	250.1	237.1	228.8	223.0	219.1	215.9	214.8
30°	509.3	401.7	297.1	256.9	237.9	226.1	219.1	215.1	211.7	207.7	206.9
32.5°	527.2	401.7	284.1	242.9	225.9	216.4	212.2	209.8	206.0	202.0	201.0
35°	545.1	399.3	268.8	228.3	214.8	209.5	209.3	206.4	200.5	195.2	193.8
37.5°	563.9	394.3	251.5	214.7	205.8	206.4	208.2	201.8	193.5	185.9	183.9
40°	585.2	387.3	233.7	202.9	198.2	205.0	205.3	195.2	179.0	172.1	170.3
42.5°	610.2	380.4	217.0	192.4	192.2	200.9	199.9	180.9	171.2	167.7	166.8
45°	643.1	376.5	201.3	182.5	187.5	194.1	190.6	173.1	169.0	167.0	166.1
47.5°	695.0	378.5	186.8	174.7	182.9	187.4	173.4	169.9	167.0	164.5	163.7
50°	760.0	377.3	175.1	169.2	177.5	180.4	165.6	165.7	164.2	161.5	160.2
52.5°	808.9	368.2	167.5	166.1	172.8	167.9	160.7	161.7	160.9	156.9	155.5
55°	856.0	360.3	163.7	165.0	169.4	152.4	155.0	157.3	156.6	152.6	152.0
57.5°	914.7	358.8	161.3	165.3	166.6	144.6	149.4	152.5	152.0	150.3	149.9
60°	986.6	359.2	159.2	165.8	163.4	138.9	144.2	148.1	148.5	148.1	147.9
62.5°	1026.1	347.6	153.9	164.3	157.7	133.9	138.8	144.5	144.6	145.3	145.2
65°	992.6	312.9	144.0	159.1	148.2	129.7	134.1	140.4	138.8	141.6	141.6
66°	960.0	292.9	139.1	155.7	144.2	128.1	132.6	138.2	136.2	140.2	140.2
67.5°	893.4	259.1	130.2	148.5	138.4	125.9	130.9	134.7	132.0	137.8	137.4
70°	771.8	200.4	112.5	132.1	129.0	122.6	128.5	127.7	123.6	132.6	130.9
72.5°	650.7	152.3	90.3	110.5	114.6	118.4	125.2	118.7	113.6	119.9	116.2
75°	504.9	114.5	71.4	85.9	96.8	111.9	121.3	108.4	101.1	100.4	98.4
77.5°	273.0	78.6	56.6	65.6	76.9	103.8	118.6	97.3	86.3	83.7	82.1
80°	108.1	51.1	41.1	49.7	53.8	92.1	112.2	84.5	71.1	68.6	66.1
82.5°	44.6	30.2	26.5	33.3	35.0	78.8	100.7	69.2	55.0	76.0	80.7
85°	19.2	16.6	15.8	17.3	19.8	55.3	80.2	52.8	59.3	52.9	42.1
87.5°	5.8	7.0	6.7	6.6	7.2	13.2	42.7	29.4	43.6	16.5	12.4
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)