

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: P348759

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
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-HSS
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: 2462 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

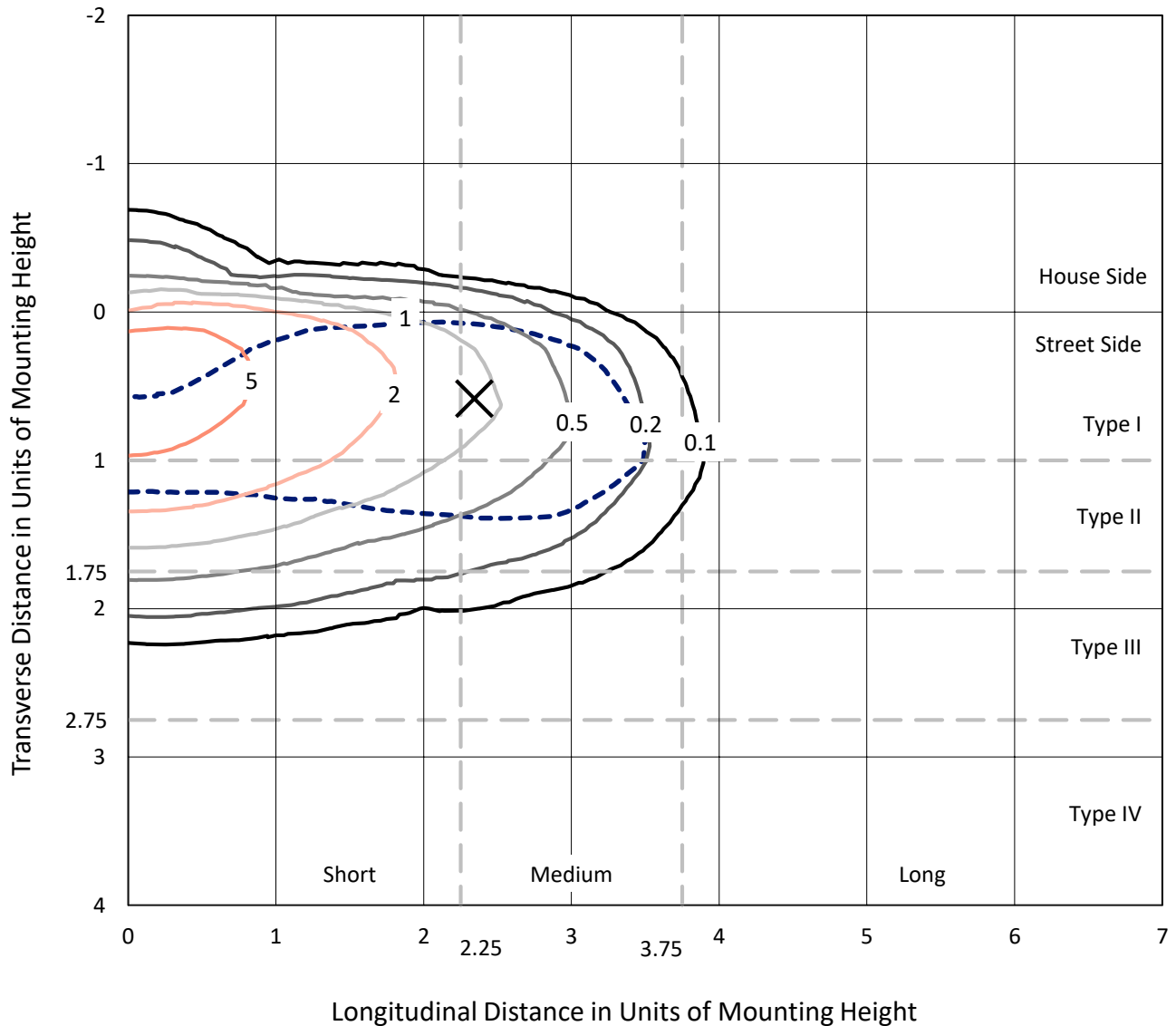
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

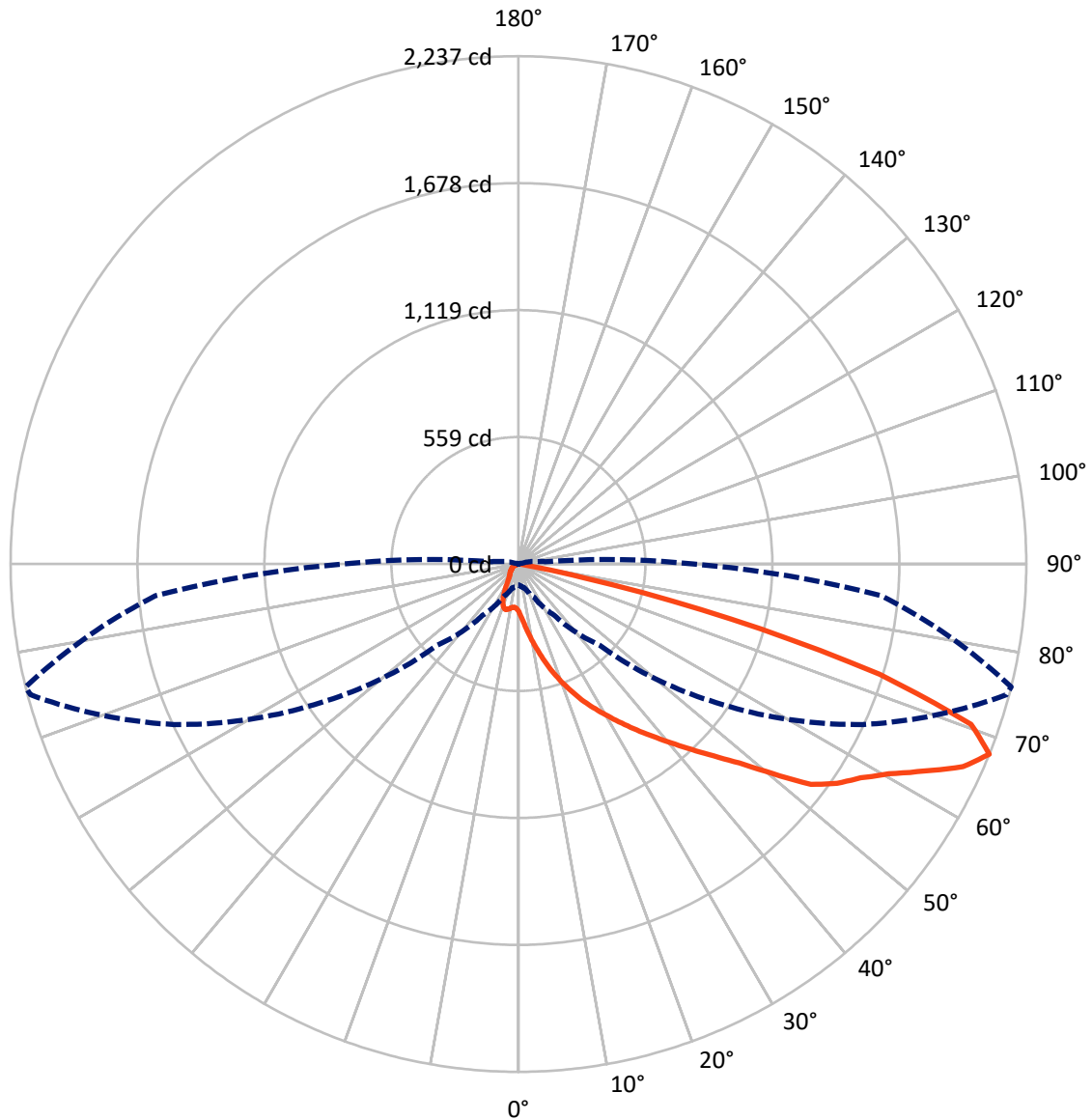
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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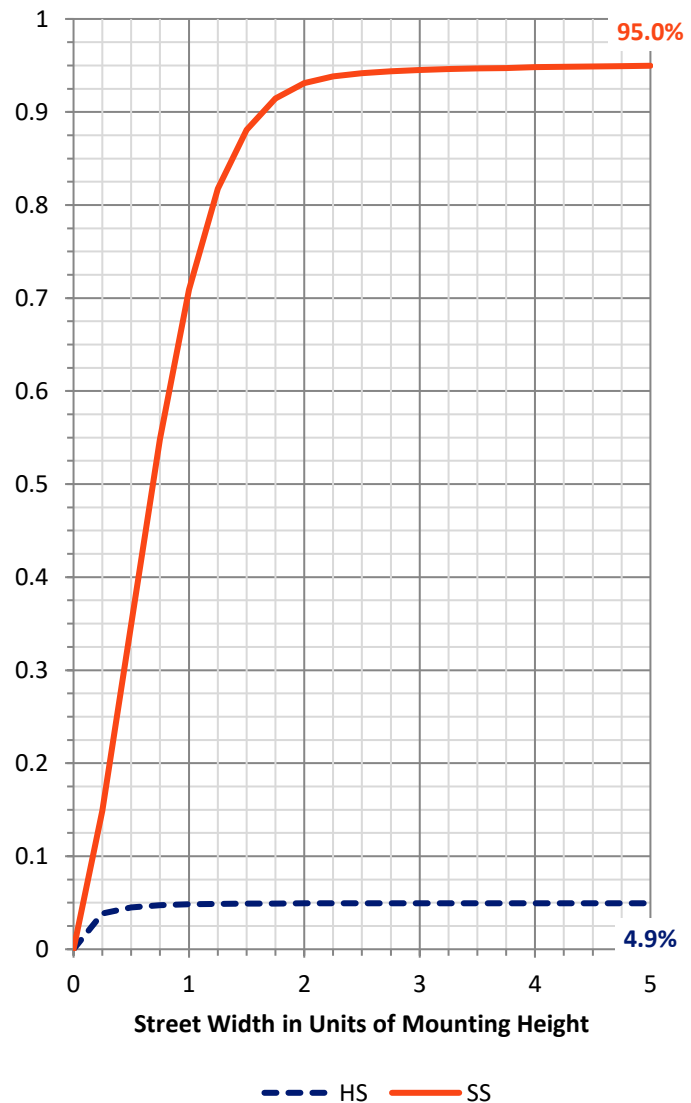
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.3	0.0	122.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2339.7	0.0	2339.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	2462.0	0.0	2462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.1
10°-20°	103.0	4.2
20°-30°	209.5	8.5
30°-40°	363.6	14.8
40°-50°	513.7	20.9
50°-60°	582.5	23.7
60°-70°	483.2	19.6
70°-80°	175.0	7.1
80°-90°	5.7	0.2
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°	2462.0	100.0
0°-180°	2462.0	100.0

Coefficient of Utilization



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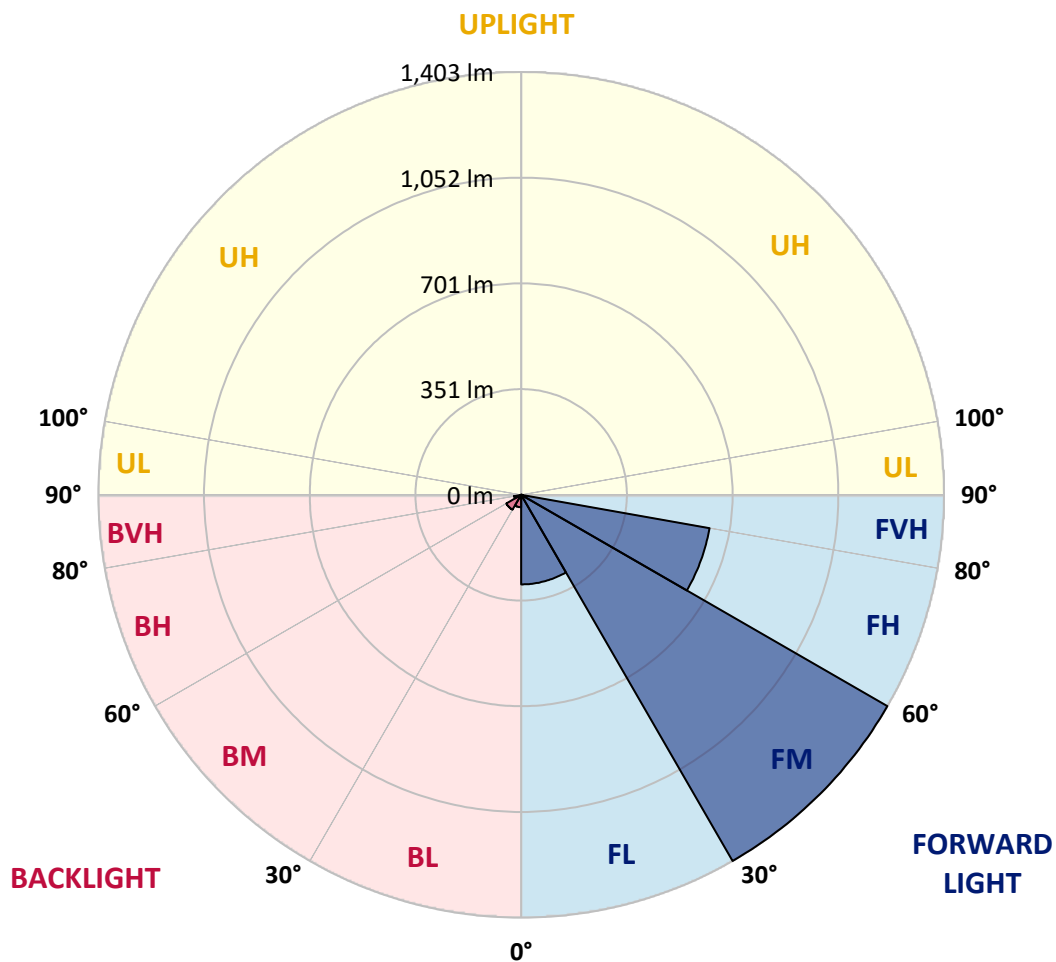
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.2	12.1			
FM	(30°-60°)	1402.6	57.0			
FH	(60°-80°)	634.5	25.8			G0/660
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	41.2	1.7	B0/110		
BM	(30°-60°)	57.2	2.3	B0/220		
BH	(60°-80°)	23.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8
2.5°	311.8	304.8	306.4	301.8	293.6	276.8	262.5	248.9	233.0	232.5	219.4
5°	420.4	414.5	413.7	404.5	389.6	361.1	333.2	301.5	266.1	263.5	235.8
7.5°	519.0	514.2	512.5	501.6	473.9	446.1	409.8	363.2	307.9	303.1	257.9
10°	594.7	592.5	592.9	585.1	561.4	535.5	487.9	428.5	355.2	347.9	284.5
12.5°	652.1	652.7	656.5	651.8	638.5	619.3	568.5	498.1	407.7	397.6	314.8
15°	694.3	697.0	704.1	710.0	709.1	692.5	645.9	568.7	463.3	452.2	348.5
17.5°	721.6	724.6	735.0	748.1	760.2	756.3	720.5	636.9	519.6	506.8	384.7
20°	745.5	749.1	760.2	777.6	800.1	805.0	781.5	703.0	575.8	560.2	422.0
22.5°	797.4	797.3	804.1	814.3	835.7	848.2	833.3	764.4	631.4	615.1	460.1
25°	891.3	887.7	885.3	877.4	882.1	889.9	881.6	821.8	687.3	670.8	498.7
27.5°	1002.8	1005.0	985.8	964.3	947.7	939.7	926.1	875.0	741.0	722.9	536.5
30°	1120.5	1121.2	1098.5	1071.1	1034.5	1004.2	980.7	925.8	796.2	776.5	573.1
32.5°	1226.7	1222.5	1200.0	1162.7	1116.5	1082.4	1033.6	982.5	854.7	835.6	613.9
35°	1310.8	1305.8	1278.6	1244.6	1196.7	1162.4	1103.6	1039.2	916.2	897.5	654.8
37.5°	1372.3	1366.5	1338.4	1303.5	1262.2	1242.2	1184.8	1100.8	983.3	963.2	697.9
40°	1393.7	1388.6	1371.0	1345.4	1312.2	1307.7	1271.0	1171.6	1056.3	1035.0	746.6
42.5°	1380.9	1376.0	1369.7	1361.1	1347.3	1351.6	1352.3	1252.4	1137.4	1116.4	800.4
45°	1330.4	1326.0	1332.5	1345.1	1362.3	1383.6	1426.6	1339.3	1228.1	1205.6	862.7
47.5°	1256.1	1252.9	1270.8	1302.3	1352.4	1411.3	1494.4	1430.6	1329.8	1309.0	940.4
50°	1150.4	1149.9	1185.7	1243.2	1320.3	1424.7	1564.5	1534.3	1471.1	1449.2	1048.3
52.5°	985.8	986.9	1057.3	1149.3	1263.9	1415.7	1609.6	1667.7	1635.5	1612.8	1141.9
55°	829.0	835.5	885.5	1018.1	1177.4	1382.0	1625.2	1729.9	1726.2	1704.7	1193.9
57.5°	675.5	687.3	735.4	859.3	1051.0	1304.4	1616.6	1756.9	1793.8	1777.3	1262.5
60°	509.2	514.6	570.0	685.9	888.9	1162.9	1554.8	1771.5	1886.1	1874.7	1362.0
62.5°	324.0	337.4	386.6	498.4	692.1	966.4	1450.6	1771.3	2001.6	2007.9	1490.5
65°	170.7	186.4	212.5	308.9	475.6	746.8	1293.9	1754.7	2143.4	2152.1	1591.0
67.5°	92.0	96.5	110.4	160.3	275.8	505.9	1063.6	1672.7	2225.5	2237.0	1605.0
70°	67.3	69.8	75.0	88.7	138.8	293.9	776.1	1486.9	2119.7	2115.4	1426.0
72.5°	51.7	55.6	59.4	64.9	79.8	156.9	483.2	1164.3	1691.3	1662.8	1065.9
75°	40.8	41.4	46.9	51.9	59.9	89.3	214.6	678.1	1032.3	964.8	552.8
77.5°	32.6	33.0	36.2	40.6	48.1	58.7	66.5	266.8	329.6	294.1	120.0
80°	19.3	20.4	27.0	31.3	39.9	37.0	24.3	57.9	51.5	46.6	20.2
82.5°	10.8	11.7	15.2	24.7	27.8	17.7	12.1	15.6	12.1	11.8	5.7
85°	0.0	0.5	9.8	15.3	11.3	3.9	5.1	5.2	3.6	3.3	2.3
87.5°	0.0	0.0	3.0	2.9	0.4	0.6	1.2	1.7	1.4	1.4	1.2
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°	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8
2.5°	212.9	207.1	196.1	185.3	176.3	168.8	162.1	159.4	157.3	157.0	155.2
5°	222.4	210.7	189.6	172.4	160.8	152.6	145.6	141.3	138.0	136.7	135.5
7.5°	236.8	219.0	188.8	168.9	155.1	141.3	128.4	114.3	105.6	102.3	100.3
10°	254.3	230.0	192.0	168.0	143.8	114.7	93.2	75.4	68.2	65.8	65.2
12.5°	274.7	243.7	197.6	161.9	119.6	81.4	64.3	58.3	56.6	55.9	55.9
15°	298.1	258.7	201.6	144.4	88.5	61.6	55.7	52.9	51.1	50.2	50.3
17.5°	322.0	273.4	199.7	119.1	65.3	54.8	50.4	47.4	45.0	44.0	43.8
20°	346.2	287.0	188.9	88.7	55.2	49.7	44.8	41.4	39.1	38.1	37.9
22.5°	371.2	298.5	169.9	65.0	49.6	44.1	39.3	35.9	33.7	32.8	32.4
25°	395.6	307.9	143.4	52.6	44.3	38.8	34.2	31.1	29.0	28.2	28.0
27.5°	418.3	313.8	112.6	46.5	39.7	34.1	29.9	27.1	25.4	24.7	24.6
30°	438.8	314.4	83.3	42.0	35.6	30.0	26.1	23.6	22.1	21.5	21.3
32.5°	459.6	309.8	60.6	37.9	31.8	26.4	22.7	20.7	19.6	19.1	19.1
35°	479.1	299.4	47.2	34.3	28.2	23.0	20.0	18.6	17.9	17.4	17.4
37.5°	498.2	284.4	40.1	31.2	24.7	20.1	17.6	16.7	16.2	15.6	15.6
40°	517.6	265.5	36.5	28.3	21.9	17.8	15.6	14.9	14.3	13.9	13.8
42.5°	541.4	243.7	34.1	25.6	19.4	15.7	13.8	12.9	12.5	12.1	11.9
45°	569.0	224.9	32.1	22.9	17.4	14.0	12.0	11.1	10.5	9.9	9.8
47.5°	608.9	211.3	29.6	20.0	15.4	12.2	10.4	9.4	8.4	7.9	7.8
50°	659.7	200.1	26.2	17.4	13.5	10.4	8.6	7.4	6.6	6.0	6.0
52.5°	684.9	185.4	23.2	15.1	11.3	8.7	7.0	5.6	5.2	4.6	4.6
55°	695.0	174.2	20.2	12.8	9.4	7.2	5.5	4.3	4.0	3.7	3.6
57.5°	723.5	171.0	17.6	10.9	7.8	5.7	4.2	3.2	3.0	2.6	2.6
60°	769.4	172.6	15.2	9.3	6.3	4.4	3.1	2.5	2.3	1.8	1.8
62.5°	818.9	170.6	12.8	8.0	4.9	3.2	2.2	1.8	1.8	1.1	1.0
65°	828.4	151.9	11.0	6.6	3.8	2.4	1.4	1.2	1.6	0.2	0.0
67.5°	768.8	117.8	9.5	5.1	2.8	1.8	1.1	0.5	1.4	0.0	0.0
70°	614.8	74.9	7.7	3.7	2.2	1.5	0.9	0.2	1.1	0.0	0.0
72.5°	434.7	43.5	6.0	2.6	1.8	1.2	0.6	0.0	0.6	0.0	0.0
75°	219.9	23.2	3.8	1.9	1.4	0.9	0.4	0.0	0.1	0.0	0.0
77.5°	47.6	10.8	2.4	1.4	1.0	0.5	0.2	0.0	0.0	0.0	0.0
80°	10.4	4.7	1.5	0.9	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	2.5	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	1.3	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)