

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: P348563

Luminaire Tested: **ARCH-N-PA1-20-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348563
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-PA1-20-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532 lumens
Efficiency: N/A
Efficacy: 105.5 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

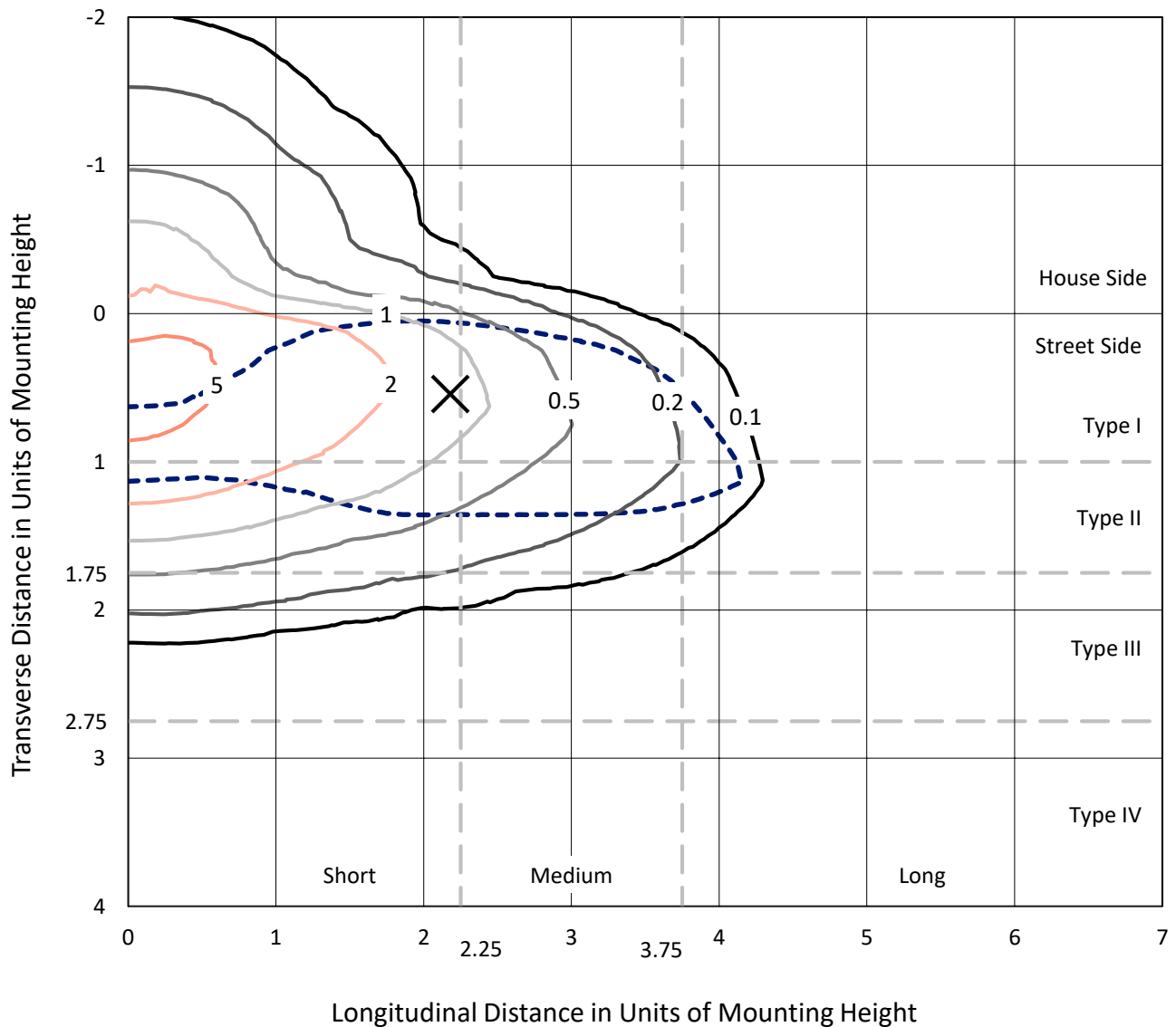
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

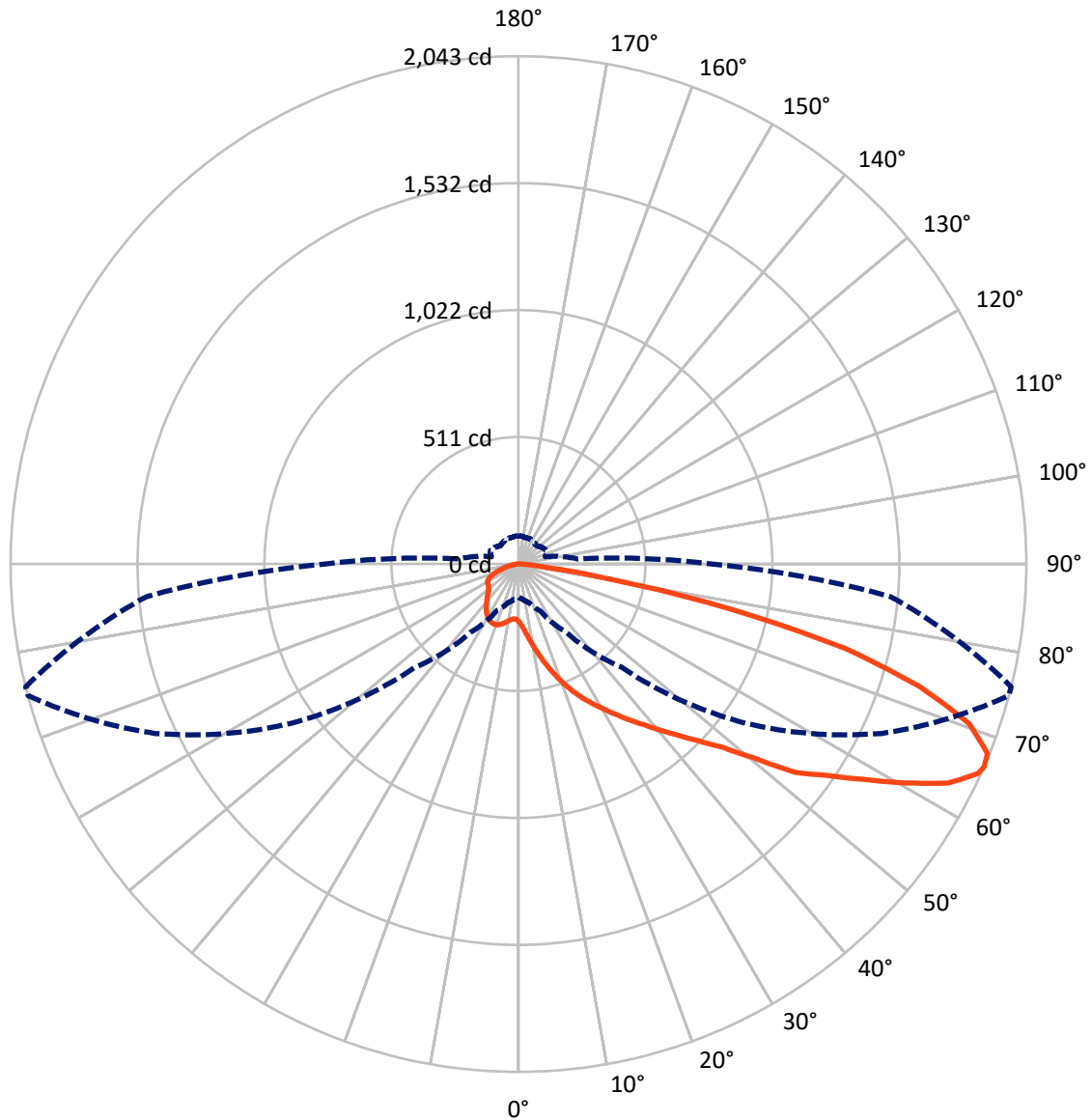
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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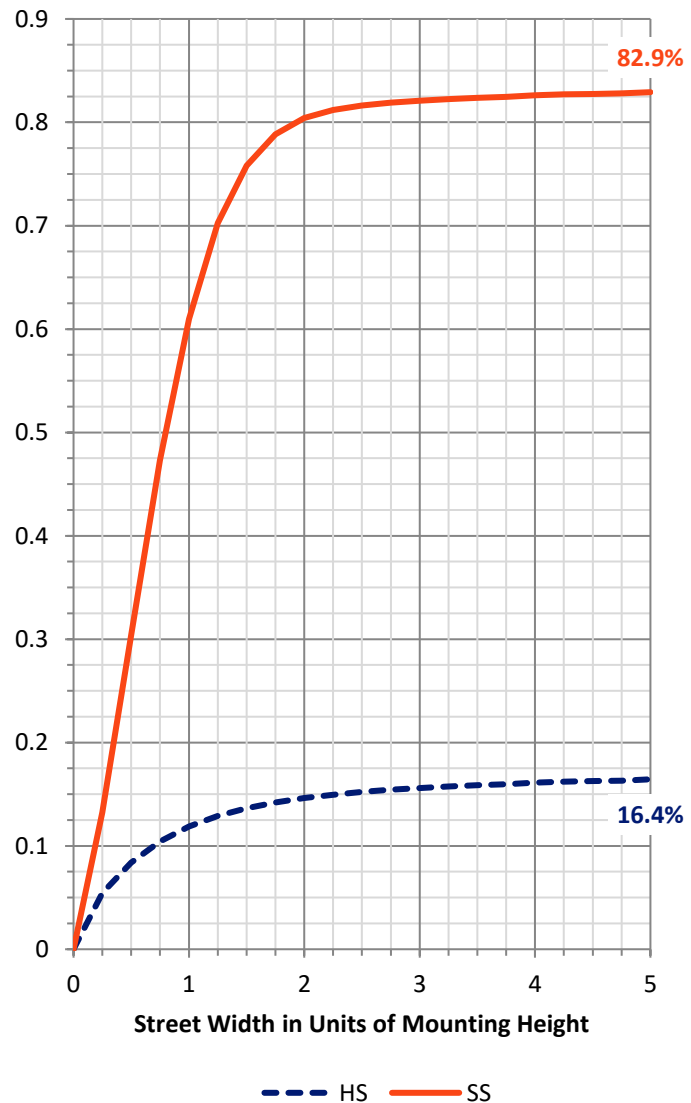
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.0	0.0	426.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	2105.9	0.0	2105.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	2532.0	0.0	2532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	1.1
10°-20°	110.4	4.4
20°-30°	214.6	8.5
30°-40°	350.2	13.8
40°-50°	478.5	18.9
50°-60°	557.4	22.0
60°-70°	499.7	19.7
70°-80°	252.5	10.0
80°-90°	40.8	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°	2532.0	100.0
0°-180°	2532.0	100.0

Coefficient of Utilization



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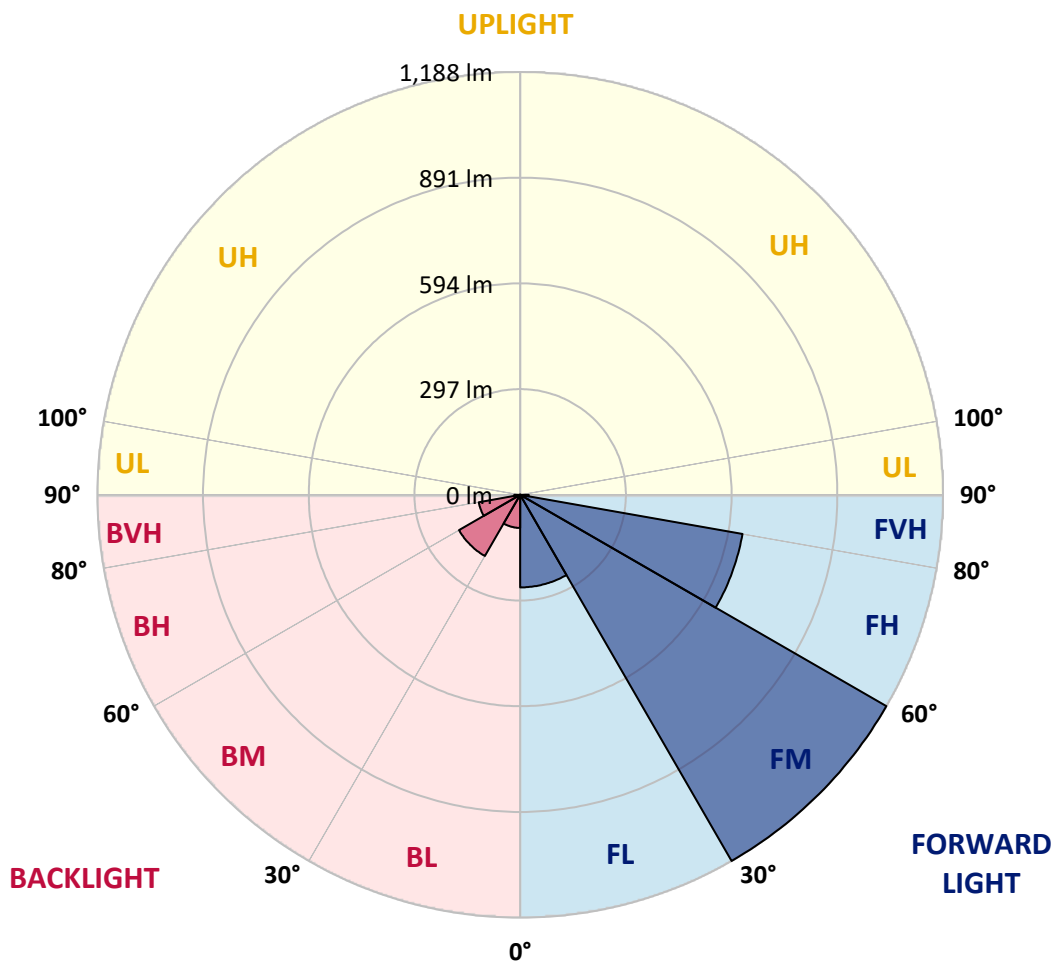
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.0	10.3			
FM (30°-60°)	1187.7	46.9			
FH (60°-80°)	634.2	25.0			G0/660
FVH (80°-90°)	24.1	1.0			G1/100
BL (0°-30°)	92.9	3.7	B0/110		
BM (30°-60°)	198.4	7.8	B0/220		
BH (60°-80°)	118.0	4.7	B1/500		G1/500
BVH (80°-90°)	16.7	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°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	307.0	302.3	301.9	295.1	293.5	280.6	271.0	261.1	249.7	247.5	238.5
5°	394.3	393.9	387.9	376.8	368.2	346.0	324.1	300.9	275.4	271.3	251.2
7.5°	472.9	472.2	467.6	455.7	443.1	415.9	384.6	349.0	307.7	301.6	268.3
10°	532.5	532.3	530.7	521.9	511.3	485.2	450.6	402.0	345.3	337.0	289.7
12.5°	578.6	579.1	580.1	577.0	572.0	549.7	514.3	458.2	385.4	377.1	313.5
15°	609.8	611.3	616.7	621.1	623.7	610.0	575.8	515.8	430.2	420.3	339.9
17.5°	625.5	627.2	636.4	649.7	661.9	660.5	633.3	570.6	473.3	463.7	368.2
20°	639.1	640.4	650.7	666.6	688.2	697.7	682.4	623.4	520.5	509.1	398.3
22.5°	678.5	680.1	683.2	692.2	711.3	728.8	721.5	673.3	563.7	553.1	426.9
25°	754.5	756.4	749.7	742.1	745.7	757.9	759.3	718.9	607.6	595.6	457.6
27.5°	846.0	848.8	837.4	817.7	800.5	795.8	794.2	756.2	649.4	635.6	487.9
30°	935.7	940.6	925.7	900.2	868.6	846.4	830.0	792.7	690.7	677.4	516.5
32.5°	1023.3	1021.3	999.7	974.8	937.8	910.0	870.3	831.9	737.1	721.9	545.0
35°	1083.3	1083.9	1063.9	1034.3	999.1	977.8	924.3	874.2	784.5	770.4	577.3
37.5°	1134.3	1131.1	1108.4	1080.8	1050.5	1041.4	987.5	920.8	835.8	820.5	611.7
40°	1151.3	1147.6	1132.8	1112.9	1088.6	1087.8	1057.2	973.6	893.8	878.7	650.4
42.5°	1141.0	1136.3	1130.2	1124.8	1117.3	1120.7	1122.7	1035.5	957.6	940.6	695.3
45°	1102.9	1095.8	1100.1	1111.9	1128.1	1147.5	1181.8	1104.0	1029.0	1014.8	748.0
47.5°	1044.4	1038.0	1051.4	1076.5	1120.7	1169.9	1237.8	1179.6	1114.3	1100.2	823.1
50°	962.0	963.9	983.1	1028.9	1095.7	1180.2	1306.7	1279.8	1238.2	1225.1	925.4
52.5°	826.9	827.3	881.2	956.5	1051.4	1174.9	1345.0	1407.7	1407.5	1391.6	1022.9
55°	701.4	709.1	751.8	851.8	979.5	1153.6	1371.7	1470.0	1518.6	1500.0	1113.8
57.5°	578.8	583.3	623.8	724.2	876.9	1096.7	1399.1	1544.7	1646.7	1634.9	1226.7
60°	439.4	446.3	488.2	580.9	745.8	995.9	1401.7	1622.6	1799.8	1787.9	1352.8
62.5°	285.2	297.1	336.3	423.2	587.1	850.9	1341.9	1673.6	1944.9	1940.7	1464.7
65°	163.9	172.9	200.1	267.2	405.0	668.8	1199.6	1654.0	2034.2	2031.8	1506.6
66°	133.9	139.5	160.4	208.8	334.2	587.4	1116.9	1612.7	2043.1	2043.2	1501.8
67.5°	107.1	109.6	119.0	149.5	246.6	465.6	969.2	1521.5	2032.1	2035.1	1470.8
70°	88.6	89.9	92.8	100.2	134.6	280.7	687.9	1284.5	1921.6	1923.9	1349.6
72.5°	79.5	80.3	81.4	82.4	95.0	156.9	420.2	1027.5	1684.8	1687.8	1165.1
75°	72.0	72.5	72.3	72.4	79.7	100.0	217.1	767.2	1362.3	1356.3	892.5
77.5°	63.3	63.7	62.8	63.0	70.5	76.8	108.0	537.1	919.3	876.9	502.9
80°	53.5	53.8	53.5	54.1	61.4	58.0	62.8	302.1	406.5	384.5	178.8
82.5°	40.4	41.9	42.9	45.3	50.5	41.3	42.0	117.7	123.8	117.8	54.8
85°	17.7	21.6	32.3	34.6	38.0	24.8	27.6	48.0	50.4	48.8	19.9
87.5°	4.6	5.1	16.0	20.1	21.1	11.2	14.4	21.8	23.0	21.8	6.6
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°	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
2.5°	233.8	229.6	222.0	215.3	210.3	206.8	203.4	201.7	200.6	199.6	199.8
5°	241.3	232.8	219.8	210.6	205.4	202.2	200.5	199.8	199.3	198.3	198.3
7.5°	252.5	240.5	222.6	213.2	209.1	206.6	205.6	205.3	204.8	203.6	203.7
10°	266.7	249.9	228.6	219.4	215.7	212.9	211.5	210.9	210.0	208.6	208.8
12.5°	283.4	261.5	236.4	226.8	222.3	218.6	216.2	214.7	213.1	211.3	211.4
15°	301.6	274.1	244.8	233.4	227.3	222.1	218.2	215.8	213.2	210.9	210.9
17.5°	320.1	286.3	251.3	237.0	228.7	221.9	216.7	212.8	209.7	206.9	206.6
20°	340.1	297.3	254.9	236.6	226.0	217.9	210.9	206.1	202.6	199.9	199.4
22.5°	360.3	307.6	255.5	233.1	219.9	210.0	202.7	197.4	193.8	190.9	189.9
25°	378.9	315.6	253.0	226.3	211.4	200.7	193.6	188.2	185.2	181.9	180.9
27.5°	395.8	321.2	248.0	217.6	201.8	191.3	184.6	180.0	176.8	174.2	173.4
30°	411.1	324.2	239.8	207.3	192.0	182.5	176.8	173.6	170.9	167.6	167.0
32.5°	425.5	324.2	229.3	196.1	182.3	174.7	171.3	169.3	166.2	163.1	162.2
35°	439.9	322.3	217.0	184.3	173.4	169.1	168.9	166.6	161.9	157.6	156.4
37.5°	455.2	318.2	203.0	173.3	166.1	166.6	168.0	162.9	156.2	150.1	148.5
40°	472.3	312.6	188.6	163.8	160.0	165.5	165.7	157.6	144.5	138.9	137.4
42.5°	492.5	307.0	175.2	155.3	155.2	162.1	161.3	146.0	138.2	135.4	134.6
45°	519.1	303.9	162.5	147.3	151.4	156.7	153.9	139.7	136.4	134.8	134.1
47.5°	561.0	305.5	150.8	141.0	147.6	151.3	139.9	137.1	134.8	132.8	132.1
50°	613.4	304.6	141.3	136.6	143.3	145.6	133.7	133.8	132.5	130.3	129.3
52.5°	652.9	297.2	135.2	134.1	139.5	135.6	129.7	130.5	129.9	126.6	125.5
55°	690.9	290.8	132.1	133.1	136.8	123.0	125.1	127.0	126.4	123.2	122.7
57.5°	738.3	289.6	130.2	133.4	134.4	116.7	120.6	123.1	122.7	121.3	121.0
60°	796.3	289.9	128.5	133.8	131.9	112.1	116.4	119.6	119.8	119.6	119.4
62.5°	828.2	280.6	124.2	132.6	127.3	108.0	112.0	116.6	116.7	117.2	117.2
65°	801.1	252.5	116.2	128.4	119.7	104.7	108.2	113.3	112.0	114.3	114.3
66°	774.8	236.4	112.3	125.7	116.4	103.4	107.0	111.6	109.9	113.1	113.1
67.5°	721.1	209.1	105.1	119.8	111.7	101.6	105.6	108.7	106.5	111.2	110.9
70°	622.9	161.8	90.8	106.6	104.1	98.9	103.8	103.1	99.8	107.0	105.6
72.5°	525.2	122.9	72.9	89.2	92.5	95.6	101.1	95.8	91.7	96.8	93.8
75°	407.5	92.4	57.6	69.4	78.1	90.3	97.9	87.5	81.6	81.1	79.4
77.5°	220.3	63.4	45.6	53.0	62.1	83.8	95.8	78.6	69.6	67.6	66.3
80°	87.2	41.3	33.2	40.1	43.4	74.4	90.6	68.2	57.4	55.4	53.4
82.5°	36.0	24.4	21.4	26.9	28.3	63.6	81.3	55.9	44.4	61.4	65.2
85°	15.5	13.4	12.7	13.9	16.0	44.6	64.7	42.6	47.9	42.7	34.0
87.5°	4.6	5.7	5.4	5.3	5.8	10.7	34.5	23.7	35.2	13.3	10.0
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)