

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: P348814

Luminaire Tested: **ARCH-N-PA1-19-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1928 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 19
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

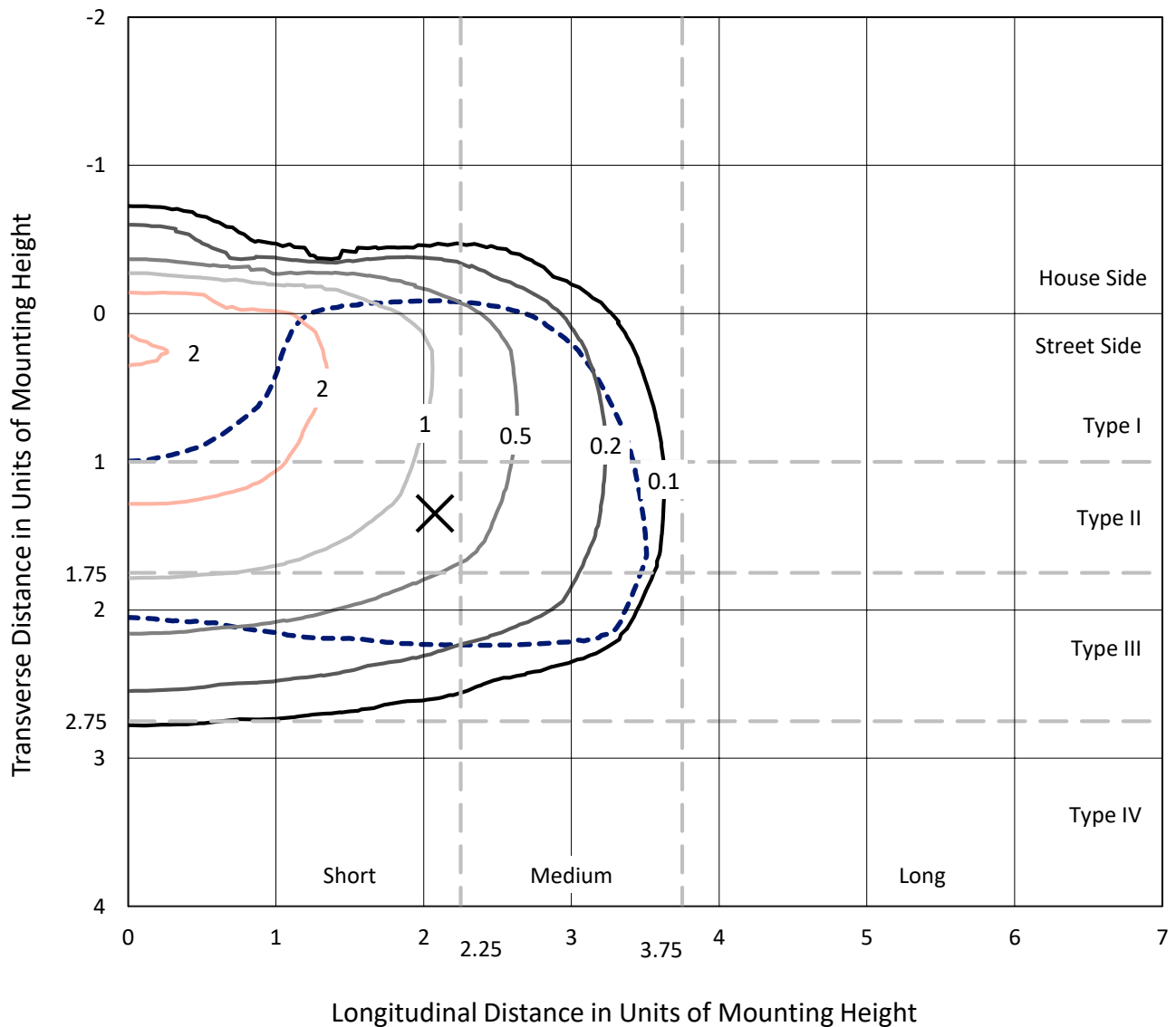


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

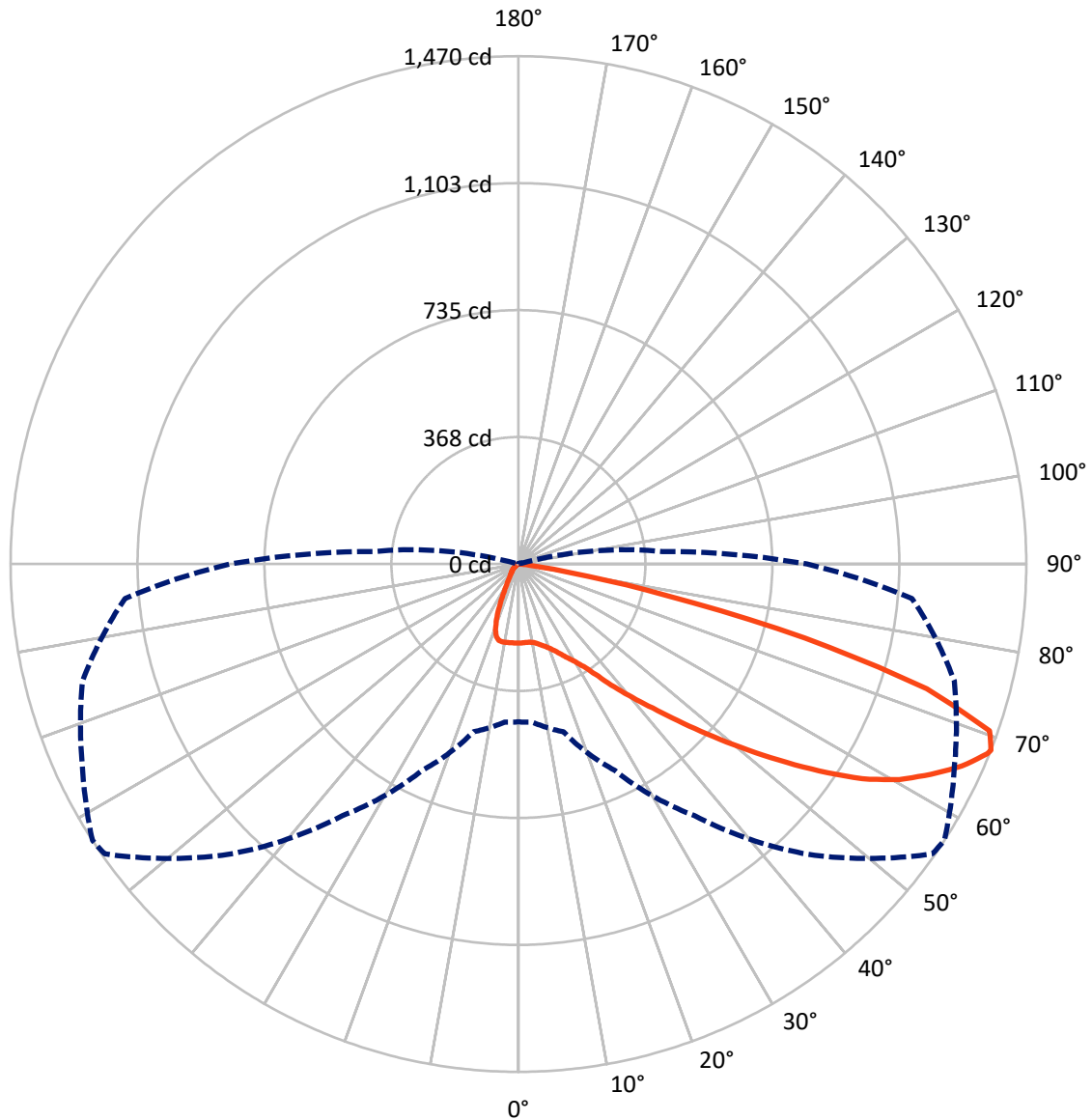


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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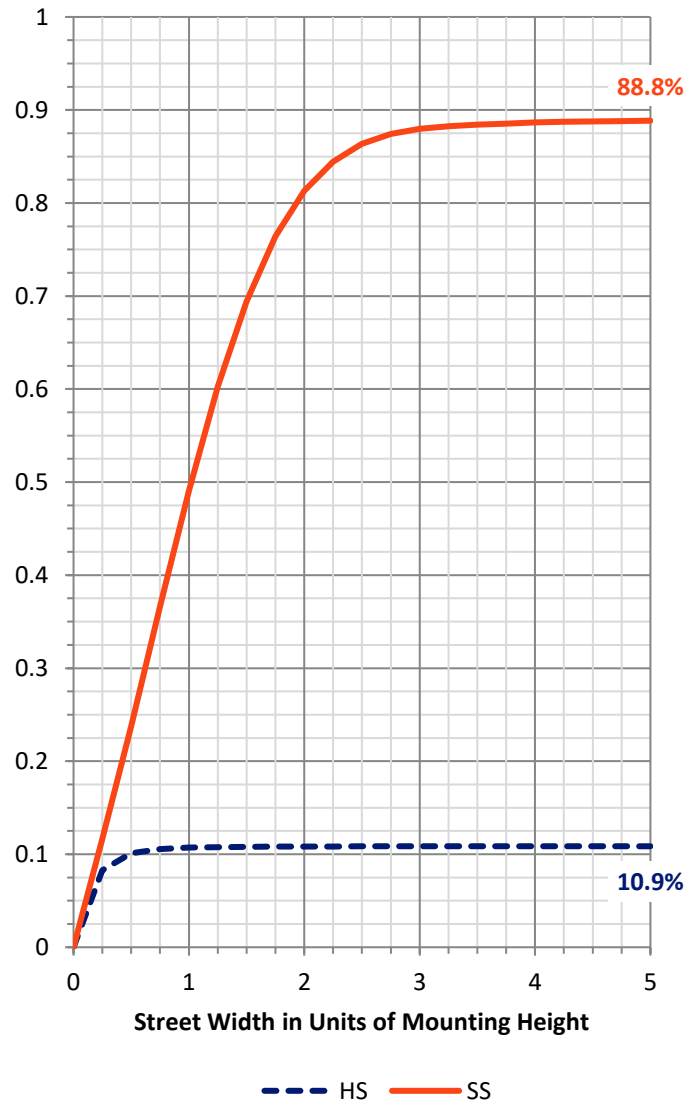
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.4	0.0	211.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1716.6	0.0	1716.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	1928.0	0.0	1928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	1.1
10°-20°	59.4	3.1
20°-30°	102.5	5.3
30°-40°	176.9	9.2
40°-50°	302.6	15.7
50°-60°	484.1	25.1
60°-70°	559.3	29.0
70°-80°	213.7	11.1
80°-90°	8.0	0.4
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°	1928.0	100.0
0°-180°	1928.0	100.0



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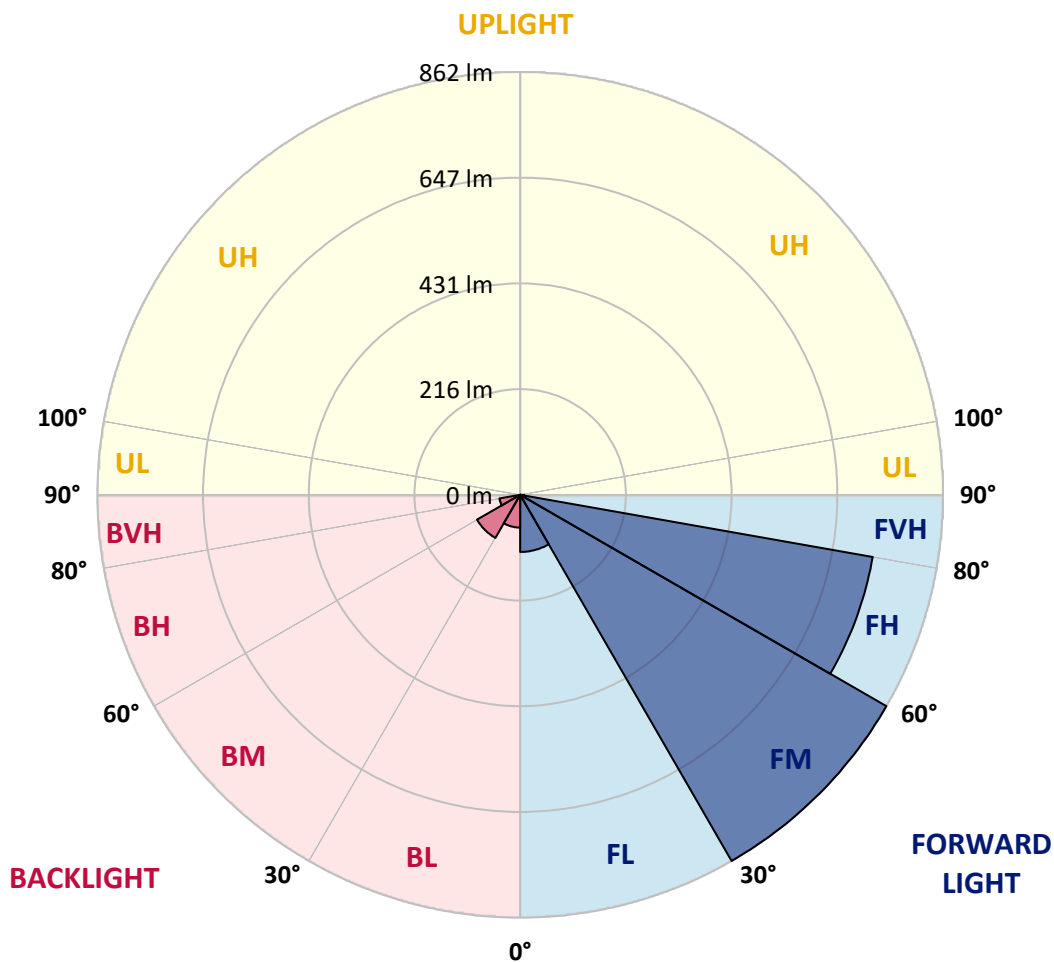
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	116.5	6.0			
FM	(30°-60°)	862.2	44.7			
FH	(60°-80°)	730.0	37.9			G1/1800
FVH	(80°-90°)	7.9	0.4			G0/10
BL	(0°-30°)	66.8	3.5	B0/110		
BM	(30°-60°)	101.4	5.3	B0/220		
BH	(60°-80°)	43.1	2.2	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1
2.5°	223.7	224.7	225.5	225.9	226.5	227.6	228.0	228.6	228.8	228.8	229.5
5°	214.9	216.0	217.5	218.8	221.3	224.6	227.0	227.9	229.6	231.0	231.8
7.5°	206.7	207.9	209.8	212.8	217.2	222.4	227.4	228.6	231.8	234.9	236.5
10°	201.4	202.4	204.8	209.0	214.8	222.2	229.1	230.6	236.1	241.3	244.2
12.5°	199.6	200.5	202.9	207.8	214.9	223.5	233.1	235.4	243.4	251.0	255.1
15°	202.2	202.4	205.0	209.6	216.6	226.9	239.8	242.5	252.6	262.5	267.6
17.5°	212.4	211.6	213.0	215.0	220.5	231.4	246.8	250.9	264.4	276.0	280.8
20°	237.9	237.9	234.8	229.4	229.5	238.3	256.3	260.9	277.4	290.8	295.2
22.5°	281.6	280.8	274.6	261.2	248.9	250.2	267.8	273.9	293.1	307.4	308.9
25°	334.1	333.1	323.5	304.7	283.3	269.6	283.5	290.5	311.8	324.5	321.4
27.5°	389.7	388.9	379.4	356.0	325.6	300.4	302.2	308.8	330.8	343.3	333.8
30°	443.6	443.9	434.5	410.4	376.1	339.7	325.9	329.7	349.3	362.0	348.3
32.5°	494.8	495.2	487.1	460.2	428.1	385.4	358.7	357.7	370.9	383.3	367.7
35°	540.5	541.4	535.9	515.0	481.0	436.2	401.3	398.9	401.4	415.5	397.3
37.5°	584.5	585.1	580.9	563.3	534.9	492.1	455.1	451.7	446.4	457.3	436.4
40°	632.8	631.4	626.6	610.6	586.2	553.8	512.9	507.1	497.9	507.5	487.8
42.5°	677.6	676.1	676.9	658.8	638.2	617.3	580.3	570.2	564.9	576.0	550.9
45°	733.7	732.9	735.6	719.9	703.2	688.0	657.5	646.5	644.2	657.2	627.2
47.5°	789.0	791.0	799.5	792.9	786.1	772.7	739.3	734.3	735.8	751.6	707.7
50°	835.2	837.5	860.8	868.4	878.2	870.4	836.8	833.8	839.5	853.8	794.3
52.5°	868.5	873.4	902.3	937.5	973.1	978.4	944.9	942.2	949.9	952.1	861.2
55°	891.7	896.0	928.7	993.2	1065.6	1088.4	1067.6	1057.1	1055.6	1034.0	931.6
57.5°	895.8	895.3	942.4	1029.3	1138.2	1197.0	1183.9	1173.5	1143.6	1109.7	1012.3
60°	872.6	875.3	929.9	1041.7	1183.8	1279.1	1280.1	1266.6	1220.1	1183.2	1090.5
62.5°	801.3	812.1	867.3	1009.0	1183.2	1312.2	1350.7	1340.4	1284.7	1243.5	1169.8
65°	685.7	689.6	742.2	896.9	1103.3	1298.4	1414.2	1410.4	1342.9	1302.0	1210.6
67.5°	500.8	492.5	547.7	706.3	934.1	1217.6	1459.8	1464.7	1387.9	1314.0	1167.2
68°	457.0	459.5	502.5	659.1	889.8	1189.1	1462.8	1470.2	1392.4	1306.2	1143.5
70°	272.4	277.1	315.5	453.8	676.9	1027.6	1430.4	1447.2	1365.7	1225.3	989.0
72.5°	69.6	75.2	111.5	203.1	386.6	724.0	1207.5	1236.0	1185.8	994.1	667.7
75°	28.6	30.1	39.8	66.9	144.0	326.2	795.9	856.9	822.0	595.1	301.8
77.5°	19.8	20.8	25.6	37.1	62.4	110.6	390.2	434.3	391.3	203.1	65.8
80°	14.2	15.0	18.3	24.7	35.8	39.5	127.2	147.0	116.8	44.6	16.3
82.5°	8.5	9.1	13.7	17.6	21.8	18.9	31.6	35.9	33.8	22.2	7.3
85°	4.2	4.9	9.2	12.6	11.8	7.9	9.7	10.8	13.3	13.5	3.9
87.5°	0.3	0.5	5.4	7.6	3.3	1.8	2.8	3.5	4.7	6.7	1.6
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°	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1	229.1
2.5°	229.7	229.8	229.2	228.9	229.1	228.0	227.5	227.7	227.7	228.0	227.5
5°	232.0	232.0	230.9	229.5	228.6	226.5	225.2	224.8	224.5	224.4	224.0
7.5°	236.9	236.4	234.5	231.3	228.6	224.0	220.5	218.7	217.8	217.4	217.2
10°	244.9	243.9	240.7	234.7	228.5	220.3	212.8	207.4	202.9	201.1	200.0
12.5°	255.5	254.1	248.7	238.9	227.8	212.9	196.5	180.7	166.0	160.0	157.0
15°	267.8	265.7	257.3	242.3	224.1	196.0	160.4	132.7	112.4	104.7	101.5
17.5°	280.3	277.6	264.7	244.5	212.9	161.1	112.5	85.0	71.4	67.7	66.5
20°	292.9	288.9	271.2	242.9	187.5	116.1	74.2	62.1	58.2	57.1	56.7
22.5°	304.9	298.7	277.0	236.5	148.5	77.9	58.7	54.9	53.6	53.0	52.8
25°	315.2	306.6	282.2	216.8	105.1	58.9	52.9	51.6	50.0	48.8	48.9
27.5°	325.0	314.5	285.3	184.3	70.1	50.3	49.0	47.2	44.2	42.5	42.5
30°	336.8	325.1	287.5	141.9	51.6	44.5	43.4	40.8	36.6	34.4	34.4
32.5°	354.4	341.1	286.1	99.6	42.8	39.1	36.6	32.9	28.4	26.3	26.2
35°	381.5	365.9	275.7	65.3	37.7	34.0	29.9	25.4	21.5	19.7	19.6
37.5°	418.0	399.1	252.3	46.7	33.8	29.3	24.3	19.4	16.5	15.3	15.2
40°	465.3	437.7	219.0	37.8	30.2	24.7	18.8	15.0	13.0	12.1	12.2
42.5°	522.1	479.0	179.0	32.6	26.6	20.3	14.7	11.9	10.6	9.9	9.8
45°	585.2	519.7	137.0	29.1	23.1	16.4	11.5	9.4	8.4	8.0	8.0
47.5°	654.6	559.4	100.3	26.0	19.2	12.7	9.2	7.7	6.8	6.6	6.5
50°	717.6	586.9	72.3	22.7	15.8	10.0	7.5	6.4	5.8	5.5	5.5
52.5°	770.1	595.6	53.2	19.1	12.8	8.0	6.2	5.5	4.9	4.6	4.6
55°	816.3	592.0	39.6	15.8	10.3	6.6	5.3	4.6	4.2	3.9	3.9
57.5°	860.6	580.5	29.5	12.9	8.3	5.3	4.5	3.9	3.5	3.3	3.3
60°	896.8	561.4	22.0	10.4	6.7	4.3	3.7	3.2	2.8	2.6	2.6
62.5°	926.1	540.2	16.1	8.6	5.3	3.4	2.9	2.6	2.1	1.8	1.8
65°	926.3	505.1	12.1	7.1	4.1	2.6	2.2	2.1	1.4	1.1	1.0
67.5°	859.3	435.5	9.3	6.1	3.2	2.0	1.6	1.7	0.7	0.5	0.4
68°	835.0	417.8	8.8	6.0	3.0	1.9	1.5	1.7	0.6	0.4	0.3
70°	704.0	332.4	7.0	5.8	2.6	1.5	1.3	1.7	0.5	0.3	0.2
72.5°	450.3	192.9	5.2	4.6	2.0	1.1	0.8	1.5	0.5	0.2	0.1
75°	191.6	59.8	3.6	3.3	1.2	0.8	0.5	1.0	0.4	0.1	0.0
77.5°	40.4	13.5	2.1	2.0	0.8	0.5	0.4	0.3	0.1	0.0	0.0
80°	10.4	3.9	1.1	1.0	0.5	0.3	0.2	0.0	0.0	0.0	0.0
82.5°	3.3	1.5	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.9	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.3	0.1	0.0	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)