

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: P348568

Luminaire Tested: **ARCH-N-PA1-10-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348568
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-PA1-10-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

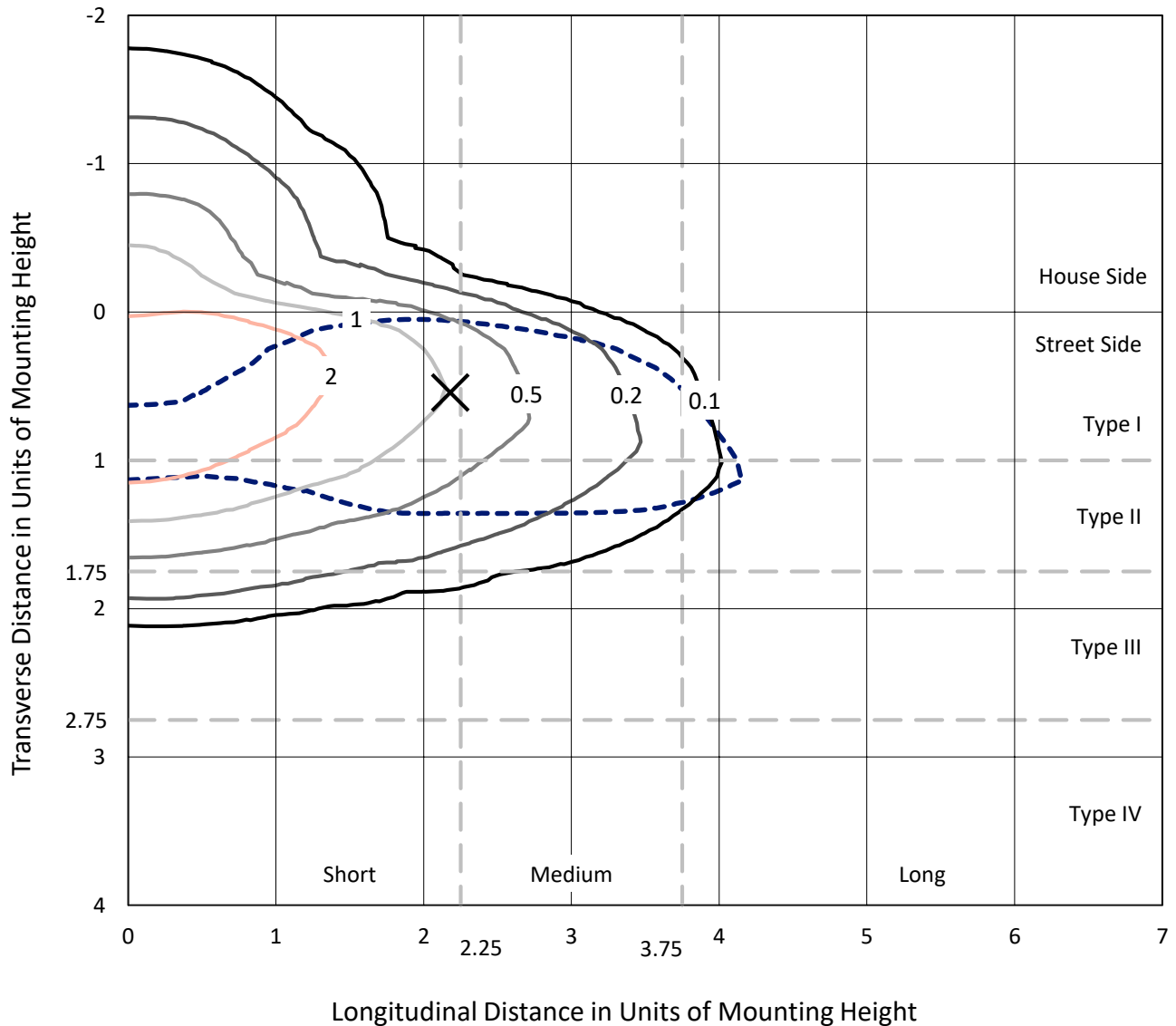
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

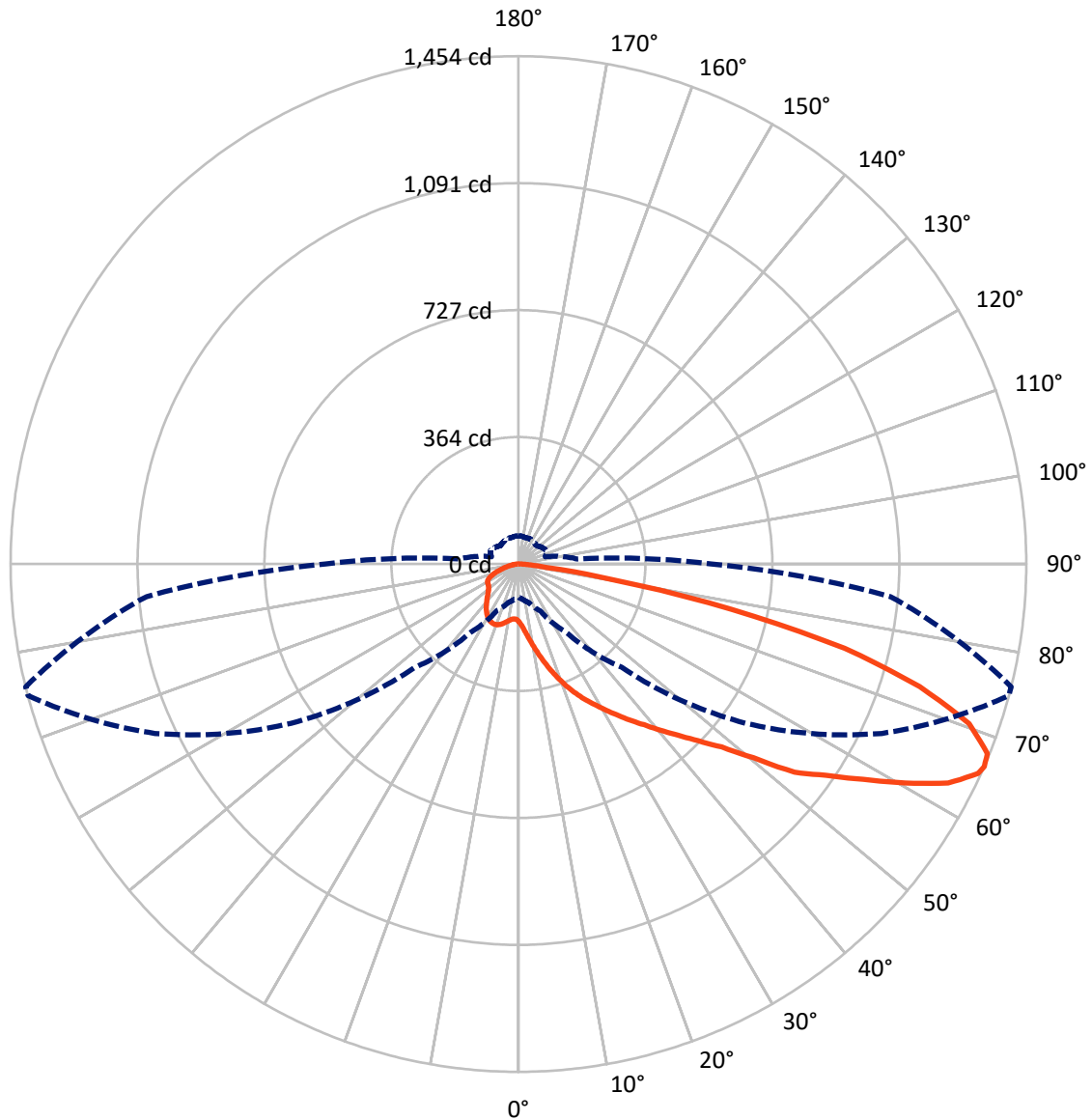


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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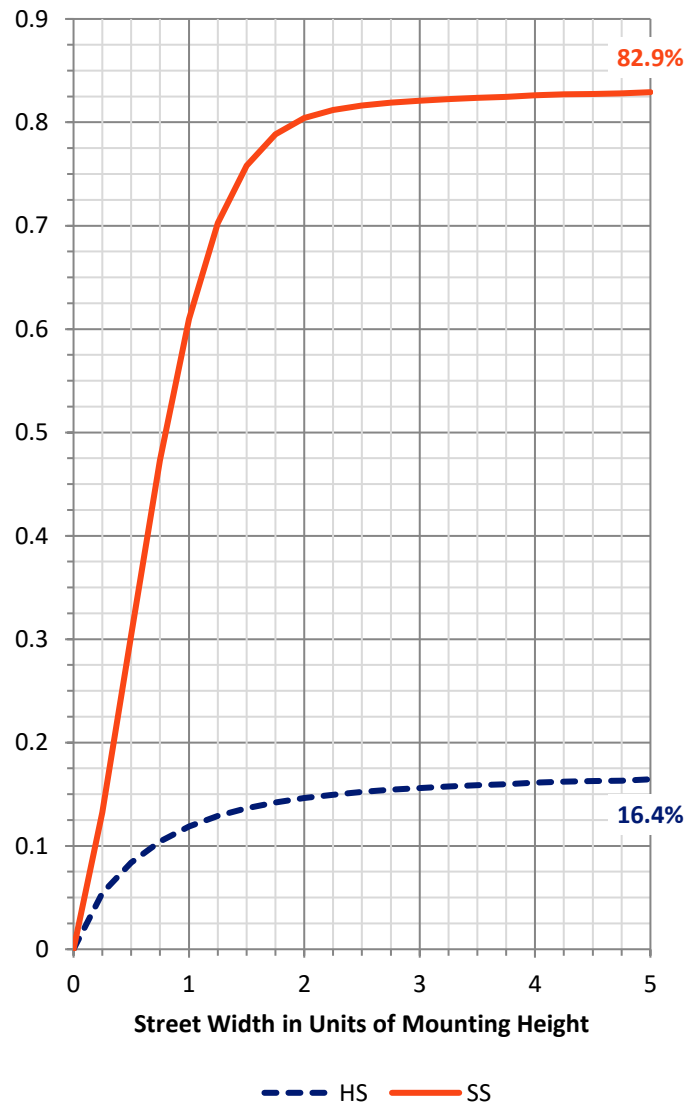
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.2	0.0	303.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	1498.8	0.0	1498.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	1802.0	0.0	1802.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	1.1
10°-20°	78.6	4.4
20°-30°	152.7	8.5
30°-40°	249.3	13.8
40°-50°	340.5	18.9
50°-60°	396.7	22.0
60°-70°	355.6	19.7
70°-80°	179.7	10.0
80°-90°	29.0	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°	1802.0	100.0
0°-180°	1802.0	100.0



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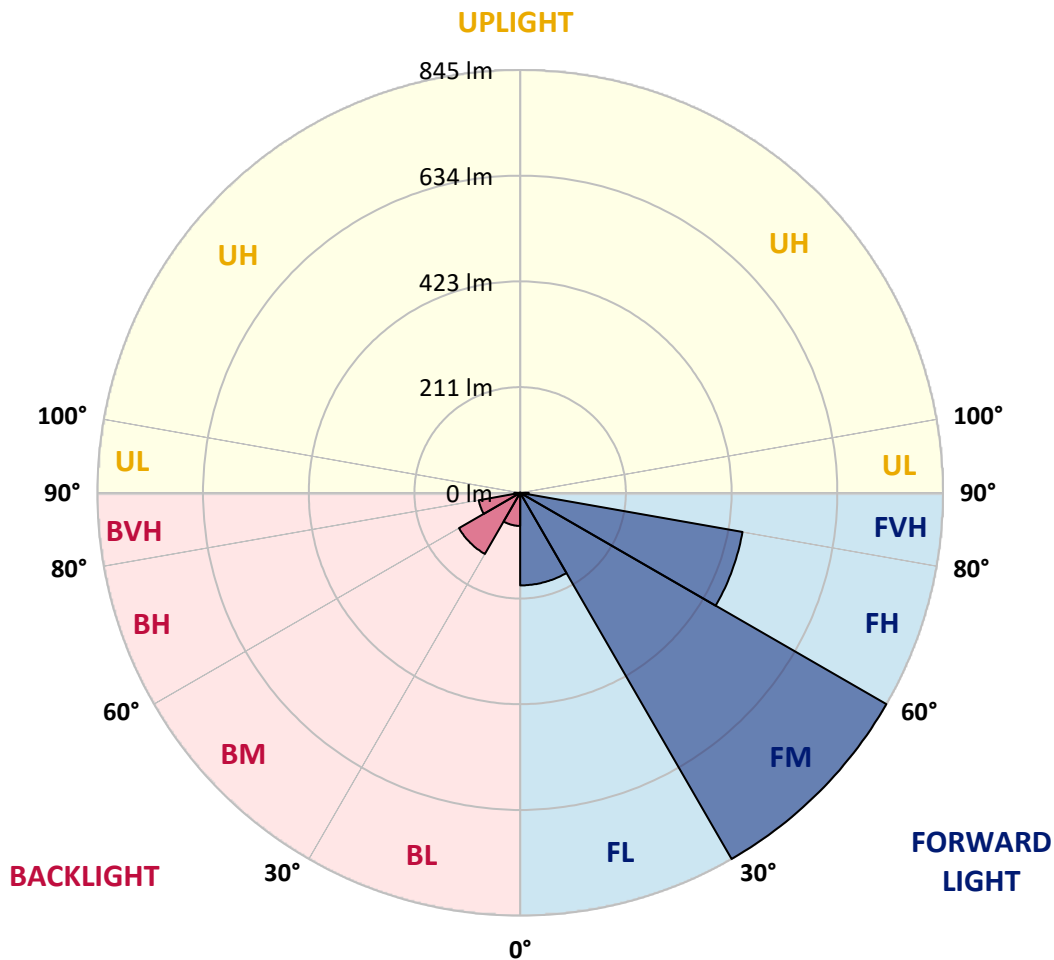
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.1	10.3			
FM (30°-60°)	845.3	46.9			
FH (60°-80°)	451.3	25.0			G0/660
FVH (80°-90°)	17.1	1.0			G1/100
BL (0°-30°)	66.1	3.7	B0/110		
BM (30°-60°)	141.2	7.8	B0/220		
BH (60°-80°)	84.0	4.7	B0/110		G0/110
BVH (80°-90°)	11.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6
2.5°	218.5	215.2	214.8	210.0	208.9	199.7	192.9	185.8	177.7	176.1	169.8
5°	280.6	280.3	276.1	268.2	262.0	246.2	230.6	214.1	196.0	193.1	178.8
7.5°	336.5	336.0	332.8	324.3	315.4	296.0	273.7	248.4	219.0	214.7	190.9
10°	379.0	378.8	377.7	371.5	363.9	345.3	320.7	286.1	245.7	239.8	206.2
12.5°	411.8	412.1	412.9	410.7	407.1	391.2	366.0	326.1	274.3	268.4	223.1
15°	434.0	435.1	438.9	442.0	443.9	434.2	409.8	367.1	306.2	299.2	241.9
17.5°	445.2	446.4	452.9	462.4	471.1	470.1	450.7	406.1	336.8	330.0	262.1
20°	454.8	455.8	463.1	474.4	489.8	496.6	485.7	443.6	370.4	362.3	283.5
22.5°	482.9	484.0	486.2	492.6	506.2	518.7	513.4	479.2	401.2	393.7	303.8
25°	536.9	538.3	533.6	528.1	530.7	539.4	540.4	511.6	432.4	423.9	325.6
27.5°	602.1	604.1	596.0	582.0	569.7	566.4	565.2	538.2	462.2	452.3	347.2
30°	665.9	669.4	658.8	640.6	618.2	602.4	590.7	564.2	491.5	482.1	367.6
32.5°	728.2	726.8	711.5	693.7	667.4	647.7	619.4	592.1	524.6	513.8	387.9
35°	770.9	771.4	757.2	736.1	711.0	695.9	657.8	622.2	558.3	548.3	410.9
37.5°	807.3	805.0	788.9	769.2	747.6	741.1	702.8	655.3	594.8	583.9	435.3
40°	819.4	816.8	806.2	792.0	774.7	774.2	752.4	692.9	636.1	625.3	462.9
42.5°	812.0	808.7	804.3	800.5	795.2	797.6	799.0	736.9	681.5	669.4	494.9
45°	784.9	779.9	782.9	791.3	802.9	816.7	841.1	785.7	732.3	722.2	532.4
47.5°	743.3	738.7	748.2	766.2	797.6	832.6	880.9	839.5	793.0	783.0	585.8
50°	684.7	686.0	699.7	732.3	779.8	839.9	930.0	910.8	881.2	871.9	658.6
52.5°	588.5	588.8	627.2	680.7	748.2	836.2	957.2	1001.9	1001.7	990.4	728.0
55°	499.2	504.6	535.0	606.2	697.1	821.0	976.2	1046.2	1080.8	1067.5	792.7
57.5°	412.0	415.1	444.0	515.4	624.1	780.5	995.8	1099.3	1171.9	1163.6	873.0
60°	312.7	317.6	347.4	413.4	530.8	708.8	997.6	1154.8	1280.9	1272.5	962.8
62.5°	203.0	211.4	239.3	301.2	417.8	605.6	955.0	1191.1	1384.2	1381.2	1042.4
65°	116.7	123.0	142.4	190.1	288.3	476.0	853.8	1177.1	1447.7	1446.0	1072.2
66°	95.3	99.3	114.2	148.6	237.9	418.0	794.9	1147.7	1454.0	1454.1	1068.8
67.5°	76.2	78.0	84.7	106.4	175.5	331.3	689.8	1082.8	1446.2	1448.3	1046.7
70°	63.1	64.0	66.1	71.3	95.8	199.8	489.6	914.2	1367.6	1369.2	960.5
72.5°	56.6	57.1	57.9	58.7	67.6	111.6	299.0	731.3	1199.0	1201.2	829.2
75°	51.3	51.6	51.4	51.5	56.7	71.1	154.5	546.0	969.5	965.2	635.2
77.5°	45.0	45.3	44.7	44.8	50.2	54.7	76.9	382.2	654.3	624.1	357.9
80°	38.1	38.3	38.1	38.5	43.7	41.3	44.7	215.0	289.3	273.6	127.2
82.5°	28.8	29.8	30.5	32.2	36.0	29.4	29.9	83.7	88.1	83.9	39.0
85°	12.6	15.4	23.0	24.7	27.0	17.6	19.6	34.1	35.8	34.7	14.2
87.5°	3.3	3.6	11.4	14.3	15.0	8.0	10.2	15.5	16.4	15.5	4.7
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°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6
2.5°	166.4	163.4	158.0	153.2	149.6	147.2	144.7	143.5	142.8	142.1	142.2
5°	171.7	165.7	156.4	149.9	146.2	143.9	142.7	142.2	141.9	141.1	141.1
7.5°	179.7	171.2	158.4	151.7	148.8	147.1	146.3	146.1	145.7	144.9	145.0
10°	189.8	177.8	162.7	156.1	153.5	151.5	150.5	150.1	149.5	148.5	148.6
12.5°	201.7	186.1	168.2	161.4	158.2	155.6	153.9	152.8	151.7	150.4	150.4
15°	214.7	195.1	174.2	166.1	161.7	158.1	155.3	153.6	151.7	150.1	150.1
17.5°	227.8	203.8	178.8	168.7	162.8	158.0	154.2	151.5	149.2	147.3	147.1
20°	242.0	211.6	181.4	168.4	160.8	155.1	150.1	146.7	144.2	142.2	141.9
22.5°	256.4	218.9	181.8	165.9	156.5	149.5	144.3	140.5	137.9	135.9	135.1
25°	269.7	224.6	180.0	161.1	150.4	142.8	137.8	133.9	131.8	129.4	128.7
27.5°	281.7	228.6	176.5	154.9	143.6	136.2	131.4	128.1	125.8	124.0	123.4
30°	292.5	230.8	170.7	147.6	136.7	129.9	125.8	123.6	121.6	119.3	118.9
32.5°	302.8	230.8	163.2	139.5	129.8	124.3	121.9	120.5	118.3	116.1	115.4
35°	313.1	229.3	154.4	131.2	123.4	120.3	120.2	118.6	115.2	112.1	111.3
37.5°	323.9	226.5	144.5	123.3	118.2	118.6	119.6	115.9	111.2	106.8	105.7
40°	336.2	222.5	134.2	116.5	113.8	117.8	117.9	112.1	102.8	98.9	97.8
42.5°	350.5	218.5	124.7	110.5	110.4	115.4	114.8	103.9	98.4	96.4	95.8
45°	369.4	216.3	115.6	104.9	107.7	111.5	109.5	99.4	97.1	95.9	95.4
47.5°	399.2	217.4	107.3	100.3	105.0	107.7	99.6	97.6	95.9	94.5	94.0
50°	436.6	216.7	100.6	97.2	102.0	103.6	95.1	95.2	94.3	92.7	92.0
52.5°	464.6	211.5	96.2	95.4	99.3	96.5	92.3	92.9	92.4	90.1	89.3
55°	491.7	207.0	94.0	94.8	97.3	87.5	89.0	90.4	89.9	87.7	87.3
57.5°	525.4	206.1	92.7	94.9	95.7	83.1	85.8	87.6	87.3	86.3	86.1
60°	566.7	206.3	91.5	95.3	93.8	79.8	82.8	85.1	85.3	85.1	85.0
62.5°	589.4	199.7	88.4	94.4	90.6	76.9	79.7	83.0	83.1	83.4	83.4
65°	570.2	179.7	82.7	91.4	85.2	74.5	77.0	80.6	79.7	81.4	81.4
66°	551.4	168.2	79.9	89.4	82.8	73.6	76.2	79.4	78.2	80.5	80.5
67.5°	513.2	148.8	74.8	85.3	79.5	72.3	75.2	77.4	75.8	79.2	78.9
70°	443.3	115.1	64.6	75.9	74.1	70.4	73.8	73.3	71.0	76.2	75.2
72.5°	373.8	87.5	51.9	63.5	65.8	68.0	71.9	68.2	65.3	68.9	66.7
75°	290.0	65.8	41.0	49.4	55.6	64.3	69.7	62.3	58.1	57.7	56.5
77.5°	156.8	45.1	32.5	37.7	44.2	59.6	68.1	55.9	49.6	48.1	47.2
80°	62.1	29.4	23.6	28.6	30.9	52.9	64.5	48.5	40.9	39.4	38.0
82.5°	25.6	17.4	15.2	19.1	20.1	45.3	57.9	39.8	31.6	43.7	46.4
85°	11.0	9.5	9.1	9.9	11.4	31.8	46.1	30.3	34.1	30.4	24.2
87.5°	3.3	4.0	3.9	3.8	4.2	7.6	24.5	16.9	25.0	9.5	7.1
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)