

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: P348750

Luminaire Tested: **ARCH-N-PA1-10-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348750
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-PA1-10-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1488 lumens
Efficiency: N/A
Efficacy: 106.3 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

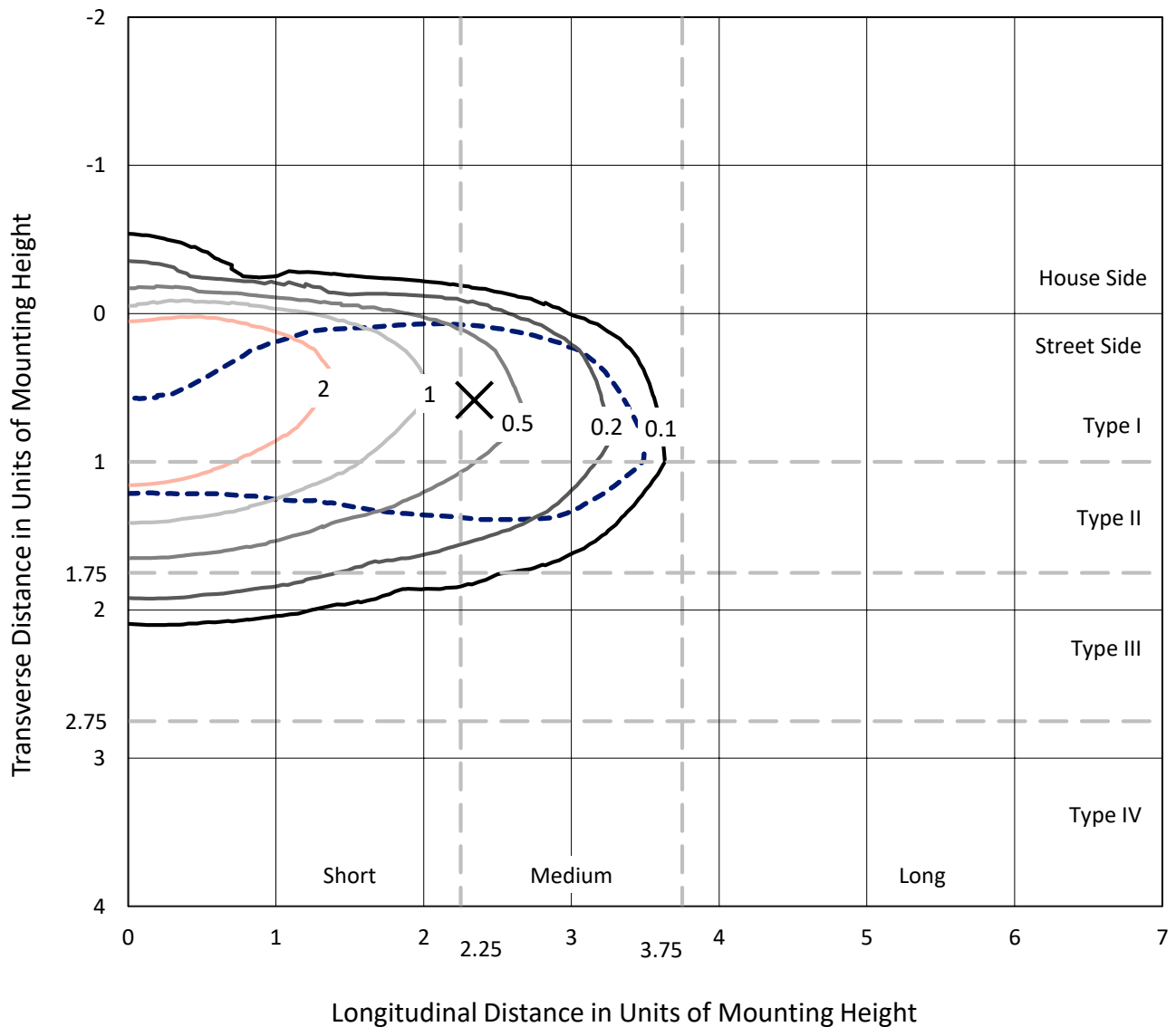
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

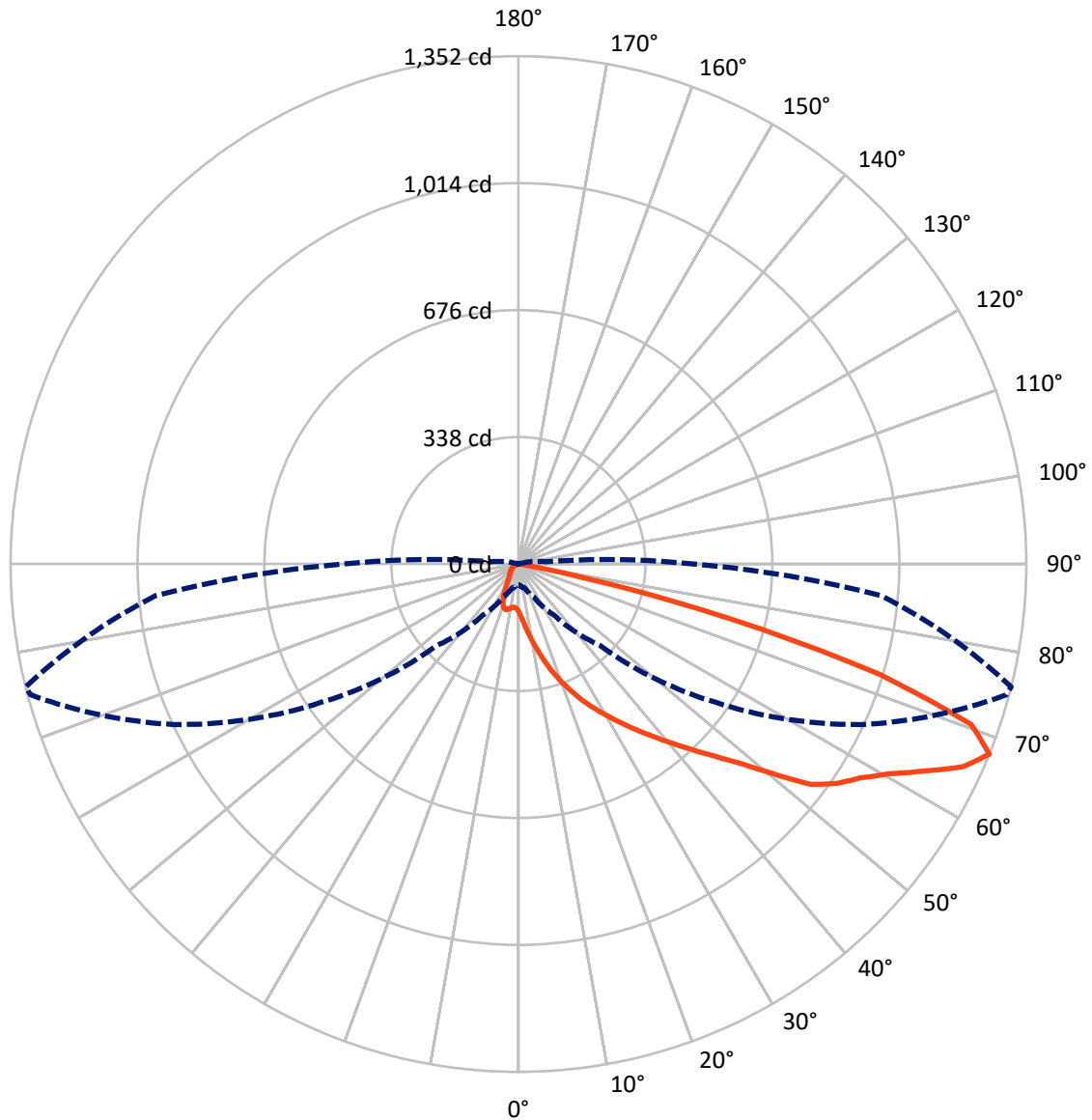
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - 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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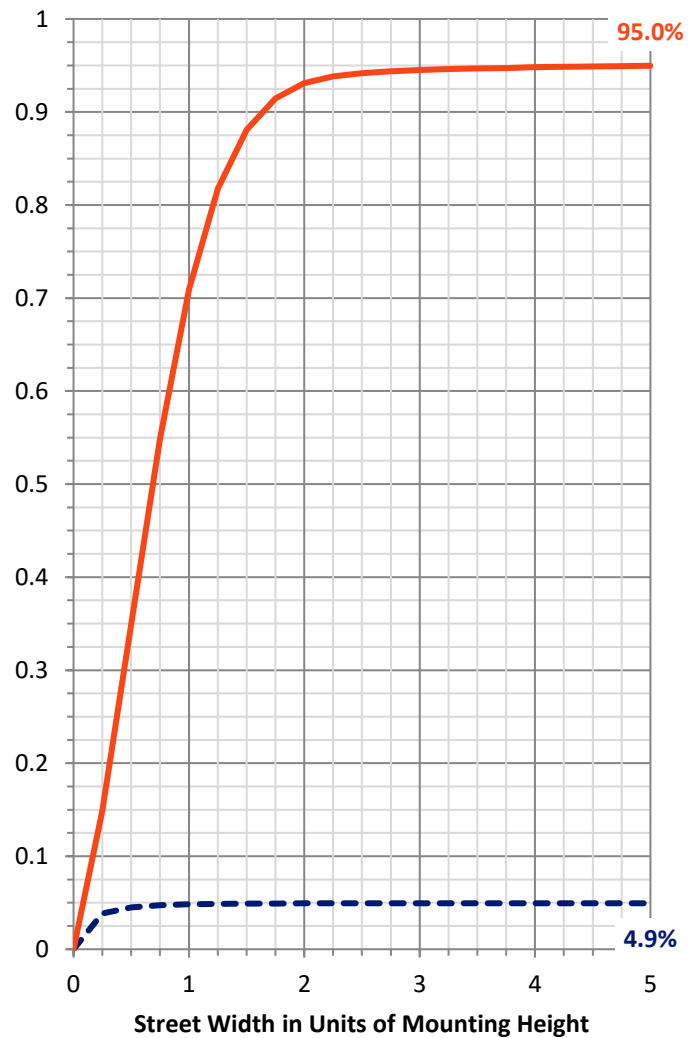
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.9	0.0	73.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	1414.1	0.0	1414.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	1488.0	0.0	1488.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	1.1
10°-20°	62.2	4.2
20°-30°	126.6	8.5
30°-40°	219.7	14.8
40°-50°	310.5	20.9
50°-60°	352.1	23.7
60°-70°	292.0	19.6
70°-80°	105.8	7.1
80°-90°	3.4	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°	1488.0	100.0
0°-180°	1488.0	100.0



--- HS — SS

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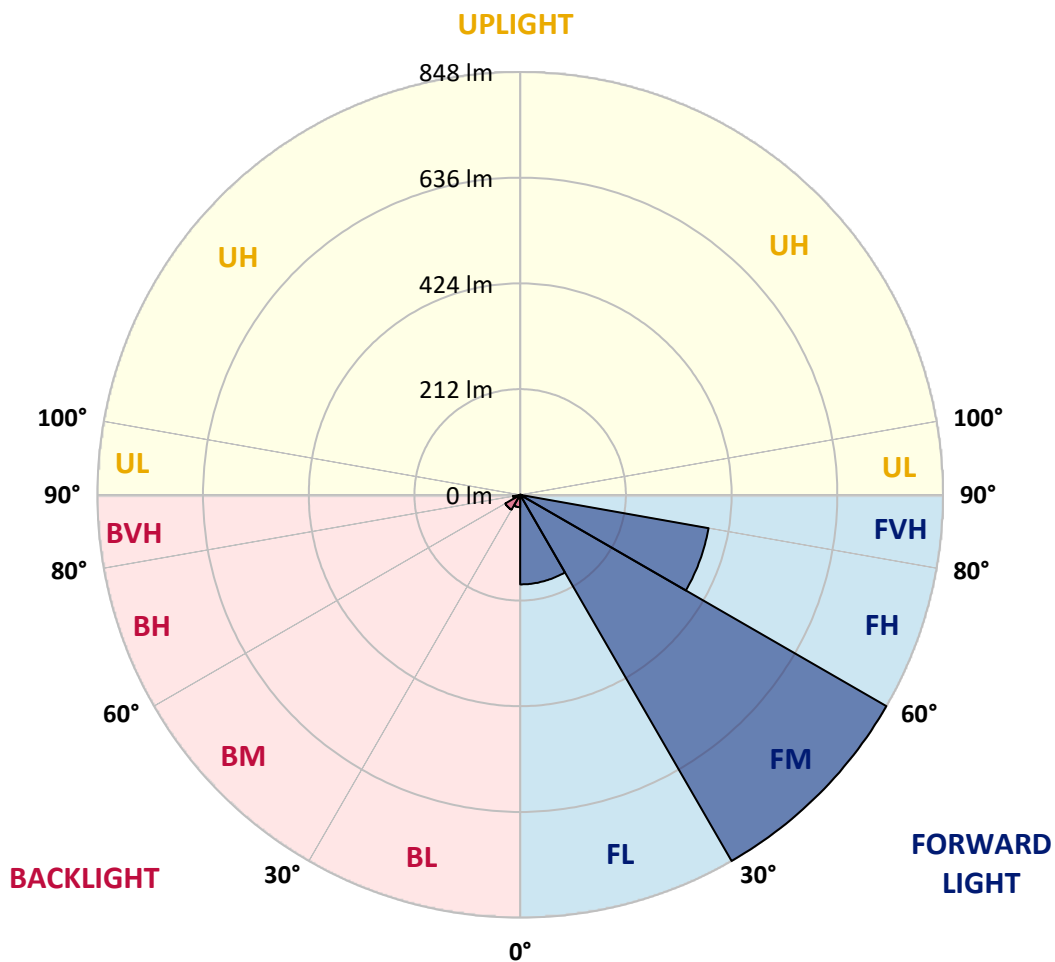
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.6	12.1			
FM	(30°-60°)	847.7	57.0			
FH	(60°-80°)	383.5	25.8			G0/660
FVH	(80°-90°)	3.3	0.2			G0/10
BL	(0°-30°)	24.9	1.7	B0/110		
BM	(30°-60°)	34.6	2.3	B0/220		
BH	(60°-80°)	14.3	1.0	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-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2
2.5°	188.4	184.2	185.2	182.4	177.5	167.3	158.6	150.4	140.8	140.5	132.6
5°	254.1	250.5	250.0	244.5	235.5	218.2	201.4	182.2	160.8	159.3	142.5
7.5°	313.7	310.8	309.8	303.2	286.4	269.6	247.7	219.5	186.1	183.2	155.9
10°	359.4	358.1	358.3	353.6	339.3	323.6	294.9	259.0	214.7	210.3	171.9
12.5°	394.1	394.5	396.8	393.9	385.9	374.3	343.6	301.0	246.4	240.3	190.3
15°	419.6	421.3	425.6	429.1	428.6	418.5	390.3	343.7	280.0	273.3	210.7
17.5°	436.1	437.9	444.2	452.2	459.5	457.1	435.5	384.9	314.1	306.3	232.5
20°	450.6	452.7	459.5	470.0	483.6	486.5	472.3	424.9	348.0	338.6	255.1
22.5°	482.0	481.9	486.0	492.1	505.1	512.7	503.7	462.0	381.6	371.8	278.1
25°	538.7	536.5	535.1	530.3	533.1	537.8	532.8	496.7	415.4	405.4	301.4
27.5°	606.1	607.4	595.8	582.8	572.8	567.9	559.7	528.8	447.9	436.9	324.2
30°	677.2	677.6	663.9	647.4	625.3	606.9	592.7	559.5	481.2	469.3	346.4
32.5°	741.4	738.8	725.3	702.7	674.8	654.2	624.7	593.8	516.6	505.0	371.0
35°	792.2	789.2	772.7	752.2	723.3	702.5	667.0	628.1	553.7	542.5	395.8
37.5°	829.4	825.9	808.9	787.8	762.8	750.8	716.1	665.3	594.3	582.2	421.8
40°	842.3	839.2	828.6	813.2	793.1	790.3	768.2	708.1	638.4	625.5	451.2
42.5°	834.6	831.6	827.8	822.6	814.3	816.9	817.3	757.0	687.5	674.7	483.8
45°	804.1	801.4	805.3	813.0	823.3	836.2	862.2	809.4	742.2	728.7	521.4
47.5°	759.2	757.2	768.0	787.1	817.4	853.0	903.2	864.6	803.7	791.1	568.3
50°	695.3	695.0	716.6	751.4	798.0	861.1	945.6	927.3	889.1	875.9	633.6
52.5°	595.8	596.4	639.0	694.6	763.9	855.6	972.8	1007.9	988.5	974.7	690.1
55°	501.1	505.0	535.2	615.3	711.6	835.3	982.2	1045.5	1043.3	1030.3	721.6
57.5°	408.3	415.4	444.5	519.4	635.2	788.4	977.1	1061.8	1084.1	1074.2	763.0
60°	307.7	311.0	344.5	414.5	537.2	702.8	939.7	1070.7	1139.9	1133.0	823.2
62.5°	195.8	203.9	233.7	301.2	418.3	584.1	876.7	1070.6	1209.8	1213.6	900.9
65°	103.1	112.7	128.4	186.7	287.5	451.4	782.0	1060.5	1295.4	1300.7	961.6
67.5°	55.6	58.4	66.7	96.9	166.7	305.8	642.8	1011.0	1345.1	1352.0	970.0
70°	40.7	42.2	45.3	53.6	83.9	177.6	469.0	898.6	1281.1	1278.5	861.9
72.5°	31.2	33.6	35.9	39.2	48.2	94.8	292.0	703.7	1022.2	1005.0	644.2
75°	24.6	25.0	28.4	31.4	36.2	54.0	129.7	409.8	623.9	583.1	334.1
77.5°	19.7	20.0	21.9	24.5	29.1	35.5	40.2	161.2	199.2	177.7	72.5
80°	11.7	12.3	16.3	18.9	24.1	22.4	14.7	35.0	31.1	28.2	12.2
82.5°	6.5	7.0	9.2	14.9	16.8	10.7	7.3	9.5	7.3	7.1	3.5
85°	0.0	0.3	5.9	9.3	6.8	2.3	3.1	3.1	2.2	2.0	1.4
87.5°	0.0	0.0	1.8	1.8	0.3	0.4	0.7	1.0	0.8	0.8	0.7
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°	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2	126.2
2.5°	128.7	125.2	118.5	112.0	106.5	102.0	98.0	96.4	95.1	94.9	93.8
5°	134.4	127.3	114.6	104.2	97.2	92.3	88.0	85.4	83.4	82.6	81.9
7.5°	143.1	132.4	114.1	102.1	93.8	85.4	77.6	69.1	63.8	61.8	60.6
10°	153.7	139.0	116.1	101.5	86.9	69.3	56.3	45.6	41.2	39.8	39.4
12.5°	166.0	147.3	119.4	97.9	72.3	49.2	38.9	35.2	34.2	33.8	33.8
15°	180.1	156.3	121.9	87.3	53.5	37.2	33.6	31.9	30.9	30.3	30.4
17.5°	194.6	165.2	120.7	72.0	39.4	33.1	30.4	28.6	27.2	26.6	26.5
20°	209.2	173.4	114.2	53.6	33.4	30.1	27.1	25.0	23.6	23.0	22.9
22.5°	224.4	180.4	102.7	39.3	30.0	26.7	23.7	21.7	20.3	19.8	19.6
25°	239.1	186.1	86.6	31.8	26.8	23.5	20.7	18.8	17.5	17.0	17.0
27.5°	252.8	189.7	68.1	28.1	24.0	20.6	18.1	16.4	15.3	14.9	14.9
30°	265.2	190.0	50.3	25.4	21.5	18.1	15.8	14.3	13.4	13.0	12.8
32.5°	277.7	187.3	36.6	22.9	19.2	16.0	13.7	12.5	11.9	11.5	11.5
35°	289.5	180.9	28.6	20.7	17.0	13.9	12.1	11.2	10.8	10.5	10.5
37.5°	301.1	171.9	24.3	18.8	14.9	12.1	10.6	10.1	9.8	9.5	9.5
40°	312.8	160.5	22.0	17.1	13.2	10.8	9.5	9.0	8.7	8.4	8.3
42.5°	327.2	147.3	20.6	15.5	11.7	9.5	8.3	7.8	7.6	7.3	7.2
45°	343.9	135.9	19.4	13.8	10.5	8.5	7.2	6.7	6.3	6.0	5.9
47.5°	368.0	127.7	17.9	12.1	9.3	7.4	6.3	5.7	5.1	4.8	4.7
50°	398.7	120.9	15.8	10.5	8.1	6.3	5.2	4.5	4.0	3.7	3.7
52.5°	413.9	112.1	14.0	9.1	6.8	5.3	4.2	3.4	3.1	2.8	2.8
55°	420.1	105.3	12.2	7.8	5.7	4.4	3.3	2.6	2.4	2.2	2.2
57.5°	437.3	103.3	10.6	6.6	4.7	3.5	2.5	2.0	1.8	1.6	1.6
60°	465.0	104.3	9.2	5.6	3.8	2.7	1.9	1.5	1.4	1.1	1.1
62.5°	494.9	103.1	7.8	4.8	2.9	2.0	1.3	1.1	1.1	0.7	0.6
65°	500.7	91.8	6.7	4.0	2.3	1.4	0.8	0.7	1.0	0.1	0.0
67.5°	464.7	71.2	5.7	3.1	1.7	1.1	0.7	0.3	0.8	0.0	0.0
70°	371.6	45.2	4.6	2.2	1.3	0.9	0.5	0.1	0.7	0.0	0.0
72.5°	262.8	26.3	3.7	1.6	1.1	0.7	0.4	0.0	0.4	0.0	0.0
75°	132.9	14.0	2.3	1.2	0.8	0.5	0.3	0.0	0.1	0.0	0.0
77.5°	28.8	6.5	1.4	0.8	0.6	0.3	0.1	0.0	0.0	0.0	0.0
80°	6.3	2.9	0.9	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	1.5	0.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.3	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)