

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: P348841

Luminaire Tested: **ARCH-N-PA1-10-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348841
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-PA1-10-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1160 lumens
Efficiency: N/A
Efficacy: 82.9 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 - 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

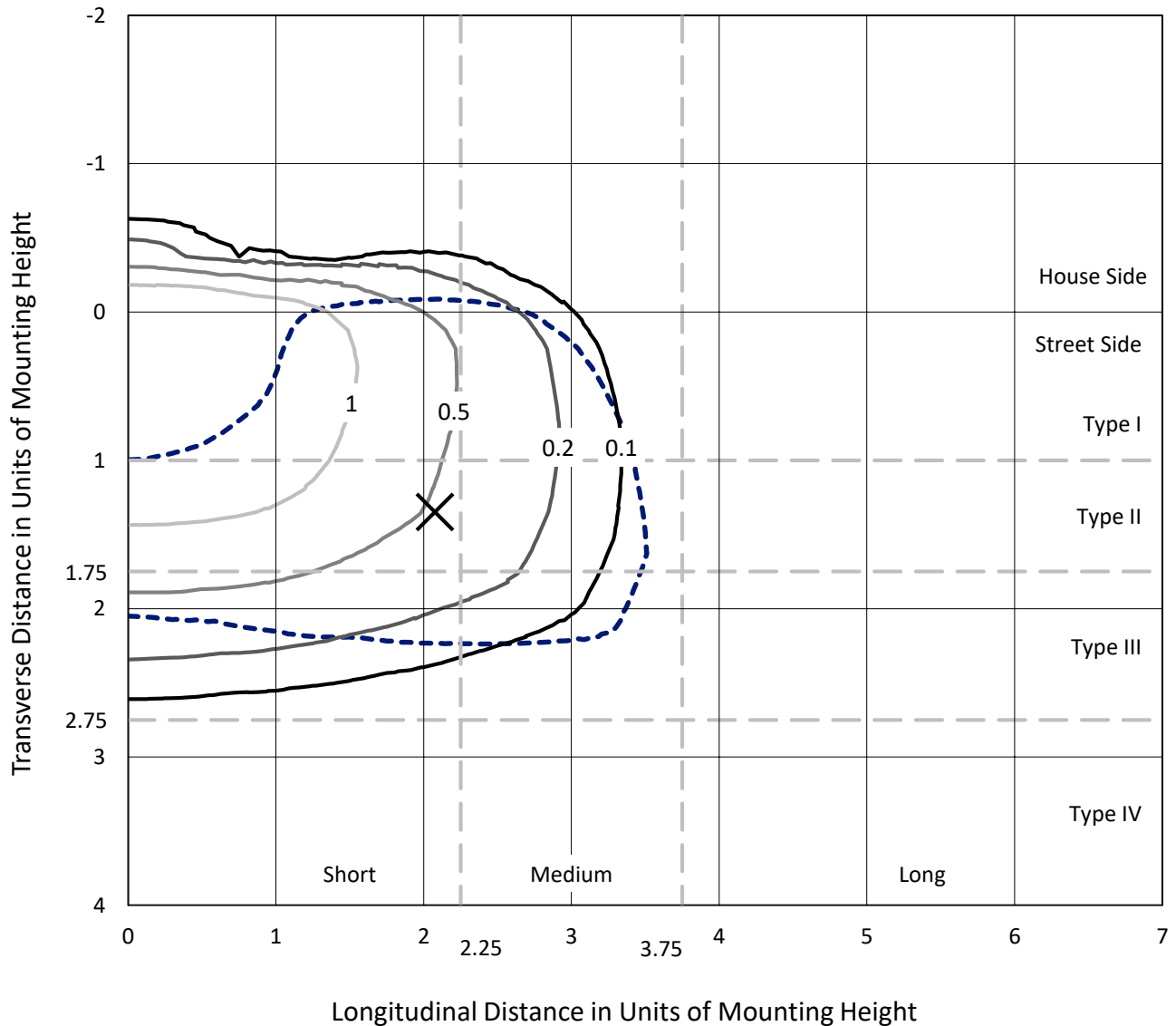


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

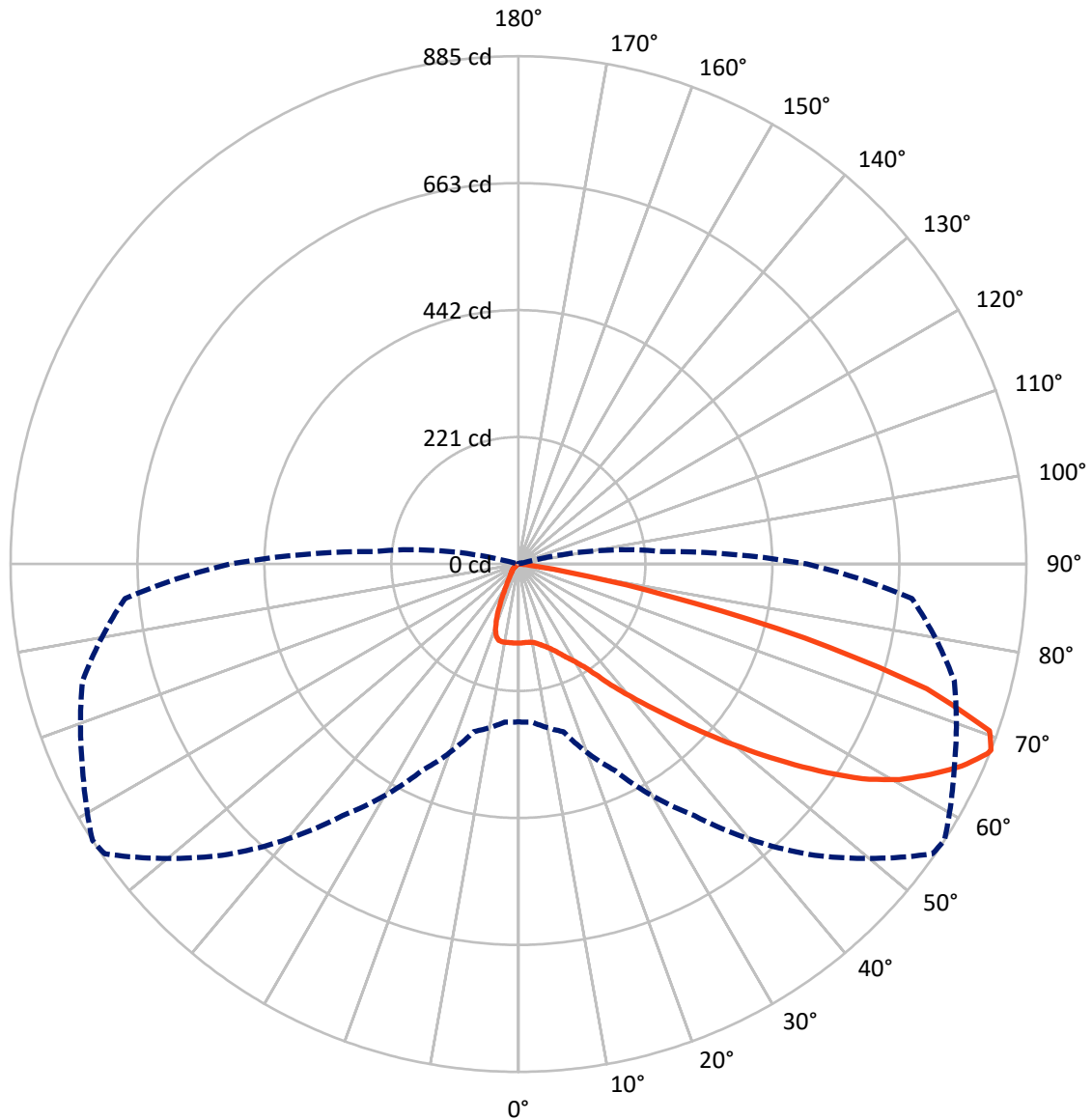


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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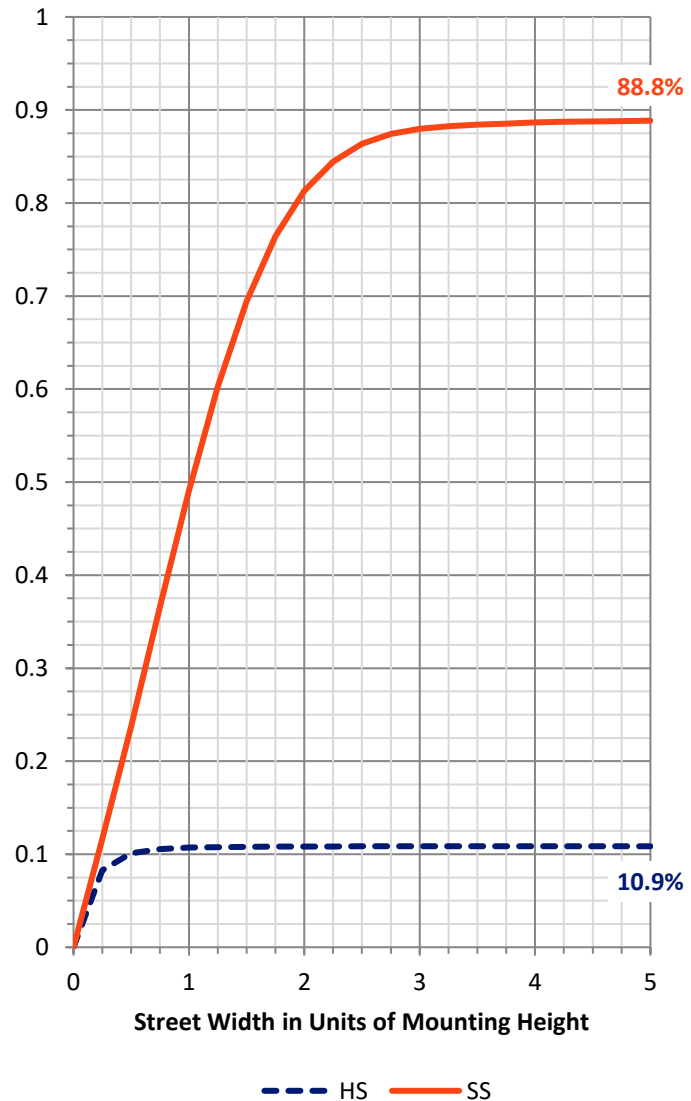
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.2	0.0	127.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1032.8	0.0	1032.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	1160.0	0.0	1160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	1.1
10°-20°	35.7	3.1
20°-30°	61.7	5.3
30°-40°	106.4	9.2
40°-50°	182.1	15.7
50°-60°	291.3	25.1
60°-70°	336.5	29.0
70°-80°	128.6	11.1
80°-90°	4.8	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°	1160.0	100.0
0°-180°	1160.0	100.0



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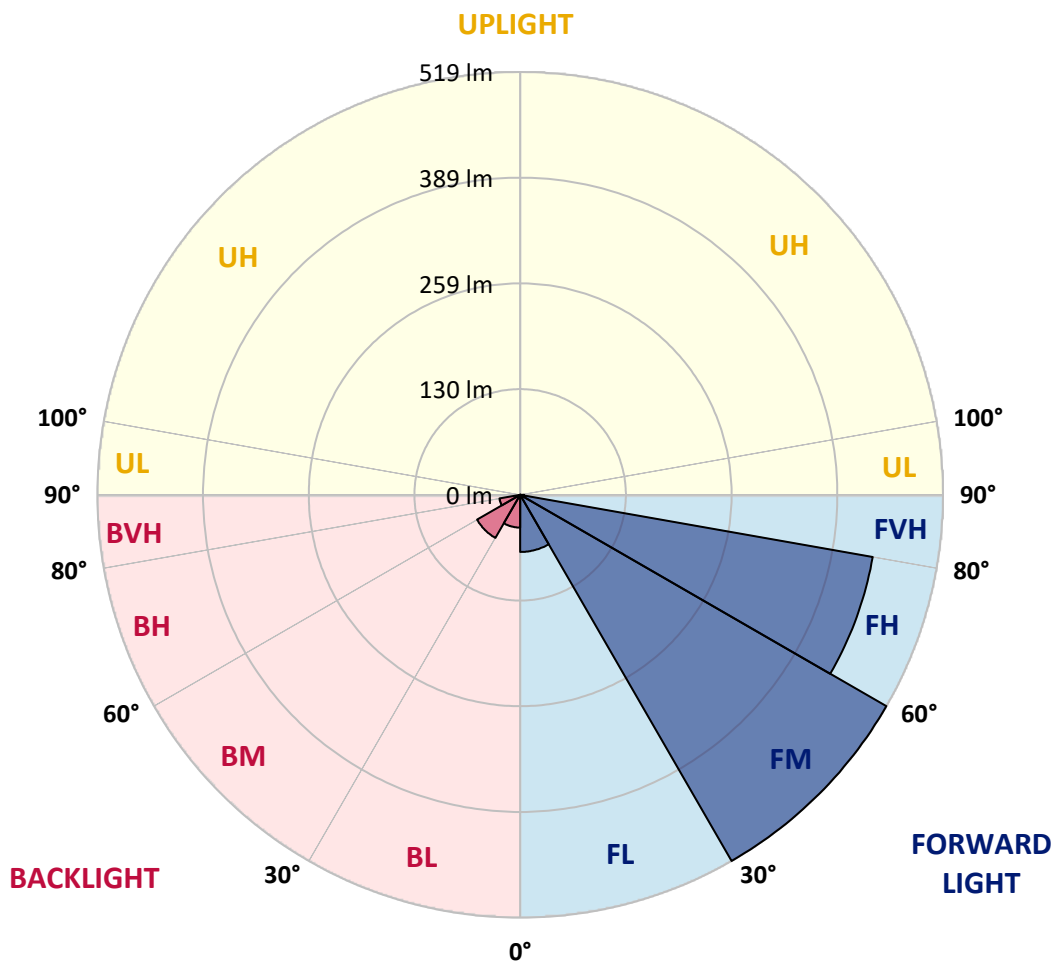
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	70.1	6.0			
FM	(30°-60°)	518.7	44.7			
FH	(60°-80°)	439.2	37.9			G0/660
FVH	(80°-90°)	4.7	0.4			G0/10
BL	(0°-30°)	40.2	3.5	B0/110		
BM	(30°-60°)	61.0	5.3	B0/220		
BH	(60°-80°)	25.9	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8
2.5°	134.6	135.2	135.6	135.9	136.2	137.0	137.2	137.5	137.7	137.7	138.1
5°	129.3	129.9	130.9	131.6	133.2	135.2	136.6	137.1	138.1	139.0	139.5
7.5°	124.3	125.1	126.2	128.0	130.7	133.8	136.8	137.6	139.5	141.3	142.3
10°	121.2	121.8	123.2	125.8	129.2	133.7	137.8	138.8	142.1	145.2	146.9
12.5°	120.1	120.6	122.1	125.0	129.3	134.5	140.3	141.6	146.5	151.0	153.5
15°	121.7	121.8	123.4	126.1	130.3	136.5	144.3	145.9	152.0	157.9	161.0
17.5°	127.8	127.3	128.1	129.3	132.7	139.2	148.5	150.9	159.1	166.0	168.9
20°	143.2	143.2	141.3	138.0	138.1	143.4	154.2	157.0	166.9	175.0	177.6
22.5°	169.4	168.9	165.2	157.1	149.7	150.6	161.1	164.8	176.3	185.0	185.8
25°	201.0	200.4	194.7	183.3	170.5	162.2	170.6	174.8	187.6	195.2	193.4
27.5°	234.5	234.0	228.3	214.2	195.9	180.7	181.8	185.8	199.1	206.6	200.8
30°	266.9	267.1	261.4	246.9	226.3	204.4	196.1	198.4	210.2	217.8	209.6
32.5°	297.7	297.9	293.1	276.9	257.6	231.9	215.8	215.2	223.1	230.6	221.2
35°	325.2	325.8	322.4	309.8	289.4	262.5	241.5	240.0	241.5	250.0	239.0
37.5°	351.7	352.0	349.5	338.9	321.8	296.1	273.8	271.8	268.6	275.1	262.6
40°	380.7	379.9	377.0	367.4	352.7	333.2	308.6	305.1	299.5	305.4	293.5
42.5°	407.7	406.8	407.3	396.4	384.0	371.4	349.1	343.1	339.9	346.5	331.5
45°	441.4	440.9	442.6	433.2	423.1	414.0	395.6	389.0	387.6	395.4	377.4
47.5°	474.7	475.9	481.0	477.0	473.0	464.9	444.8	441.8	442.7	452.2	425.8
50°	502.5	503.9	517.9	522.5	528.4	523.7	503.5	501.7	505.1	513.7	477.9
52.5°	522.6	525.5	542.9	564.1	585.5	588.7	568.5	566.9	571.5	572.9	518.2
55°	536.5	539.1	558.8	597.6	641.1	654.9	642.4	636.0	635.1	622.1	560.5
57.5°	539.0	538.7	567.0	619.3	684.8	720.2	712.3	706.0	688.0	667.6	609.1
60°	525.0	526.6	559.5	626.8	712.2	769.6	770.2	762.1	734.1	711.9	656.1
62.5°	482.1	488.6	521.8	607.1	711.9	789.5	812.7	806.5	772.9	748.2	703.8
65°	412.6	414.9	446.5	539.6	663.8	781.2	850.9	848.6	808.0	783.4	728.4
67.5°	301.3	296.3	329.5	424.9	562.0	732.6	878.3	881.2	835.0	790.6	702.2
68°	275.0	276.4	302.3	396.6	535.3	715.4	880.1	884.6	837.7	785.9	688.0
70°	163.9	166.7	189.8	273.0	407.3	618.3	860.6	870.7	821.7	737.2	595.1
72.5°	41.9	45.3	67.1	122.2	232.6	435.6	726.5	743.7	713.4	598.1	401.7
75°	17.2	18.1	24.0	40.3	86.7	196.3	478.8	515.6	494.6	358.1	181.6
77.5°	11.9	12.5	15.4	22.3	37.5	66.5	234.8	261.3	235.4	122.2	39.6
80°	8.6	9.1	11.0	14.9	21.6	23.8	76.5	88.5	70.3	26.8	9.8
82.5°	5.1	5.5	8.2	10.6	13.1	11.4	19.0	21.6	20.3	13.3	4.4
85°	2.5	3.0	5.5	7.6	7.1	4.8	5.8	6.5	8.0	8.1	2.4
87.5°	0.2	0.3	3.2	4.6	2.0	1.1	1.7	2.1	2.9	4.0	1.0
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°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8
2.5°	138.2	138.3	137.9	137.7	137.8	137.2	136.9	137.0	137.0	137.2	136.9
5°	139.6	139.6	138.9	138.1	137.6	136.3	135.5	135.3	135.1	135.0	134.8
7.5°	142.6	142.2	141.1	139.2	137.5	134.8	132.7	131.6	131.0	130.8	130.7
10°	147.3	146.7	144.8	141.2	137.5	132.6	128.0	124.8	122.1	121.0	120.3
12.5°	153.7	152.9	149.6	143.7	137.1	128.1	118.2	108.7	99.9	96.3	94.5
15°	161.1	159.9	154.8	145.8	134.8	117.9	96.5	79.9	67.6	63.0	61.0
17.5°	168.7	167.0	159.3	147.1	128.1	96.9	67.7	51.1	42.9	40.8	40.0
20°	176.2	173.8	163.2	146.1	112.8	69.9	44.6	37.4	35.0	34.3	34.1
22.5°	183.4	179.7	166.7	142.3	89.4	46.9	35.3	33.0	32.3	31.9	31.8
25°	189.7	184.5	169.8	130.4	63.2	35.4	31.8	31.0	30.1	29.3	29.4
27.5°	195.5	189.2	171.6	110.9	42.2	30.3	29.5	28.4	26.6	25.6	25.6
30°	202.6	195.6	173.0	85.3	31.0	26.8	26.1	24.5	22.0	20.7	20.7
32.5°	213.3	205.2	172.1	59.9	25.7	23.5	22.0	19.8	17.1	15.8	15.7
35°	229.5	220.2	165.9	39.3	22.7	20.5	18.0	15.3	12.9	11.8	11.8
37.5°	251.5	240.1	151.8	28.1	20.3	17.6	14.6	11.7	9.9	9.2	9.2
40°	280.0	263.3	131.8	22.8	18.2	14.9	11.3	9.1	7.8	7.3	7.3
42.5°	314.1	288.2	107.7	19.6	16.0	12.2	8.8	7.1	6.4	6.0	5.9
45°	352.1	312.7	82.4	17.5	13.9	9.9	6.9	5.6	5.0	4.8	4.8
47.5°	393.8	336.6	60.3	15.6	11.6	7.6	5.5	4.6	4.1	3.9	3.9
50°	431.7	353.1	43.5	13.7	9.5	6.0	4.5	3.8	3.5	3.3	3.3
52.5°	463.3	358.3	32.0	11.5	7.7	4.8	3.7	3.3	3.0	2.8	2.8
55°	491.1	356.2	23.8	9.5	6.2	3.9	3.2	2.8	2.5	2.4	2.4
57.5°	517.8	349.3	17.8	7.7	5.0	3.2	2.7	2.4	2.1	2.0	2.0
60°	539.6	337.8	13.2	6.3	4.0	2.6	2.2	1.9	1.7	1.5	1.5
62.5°	557.2	325.0	9.7	5.2	3.2	2.0	1.8	1.6	1.3	1.1	1.1
65°	557.3	303.9	7.3	4.3	2.5	1.6	1.3	1.3	0.8	0.7	0.6
67.5°	517.0	262.0	5.6	3.7	1.9	1.2	1.0	1.0	0.4	0.3	0.2
68°	502.4	251.4	5.3	3.6	1.8	1.2	0.9	1.0	0.4	0.2	0.2
70°	423.6	200.0	4.2	3.5	1.6	0.9	0.8	1.0	0.3	0.2	0.1
72.5°	270.9	116.1	3.1	2.8	1.2	0.7	0.5	0.9	0.3	0.1	0.1
75°	115.3	36.0	2.1	2.0	0.7	0.5	0.3	0.6	0.2	0.1	0.0
77.5°	24.3	8.1	1.3	1.2	0.5	0.3	0.2	0.2	0.1	0.0	0.0
80°	6.3	2.4	0.7	0.6	0.3	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.0	0.9	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.0	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.2	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)