

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: P348842

Luminaire Tested: **ARCH-N-PA1-19-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348842
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-PA1-19-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1556 lumens
Efficiency: N/A
Efficacy: 81.9 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): 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

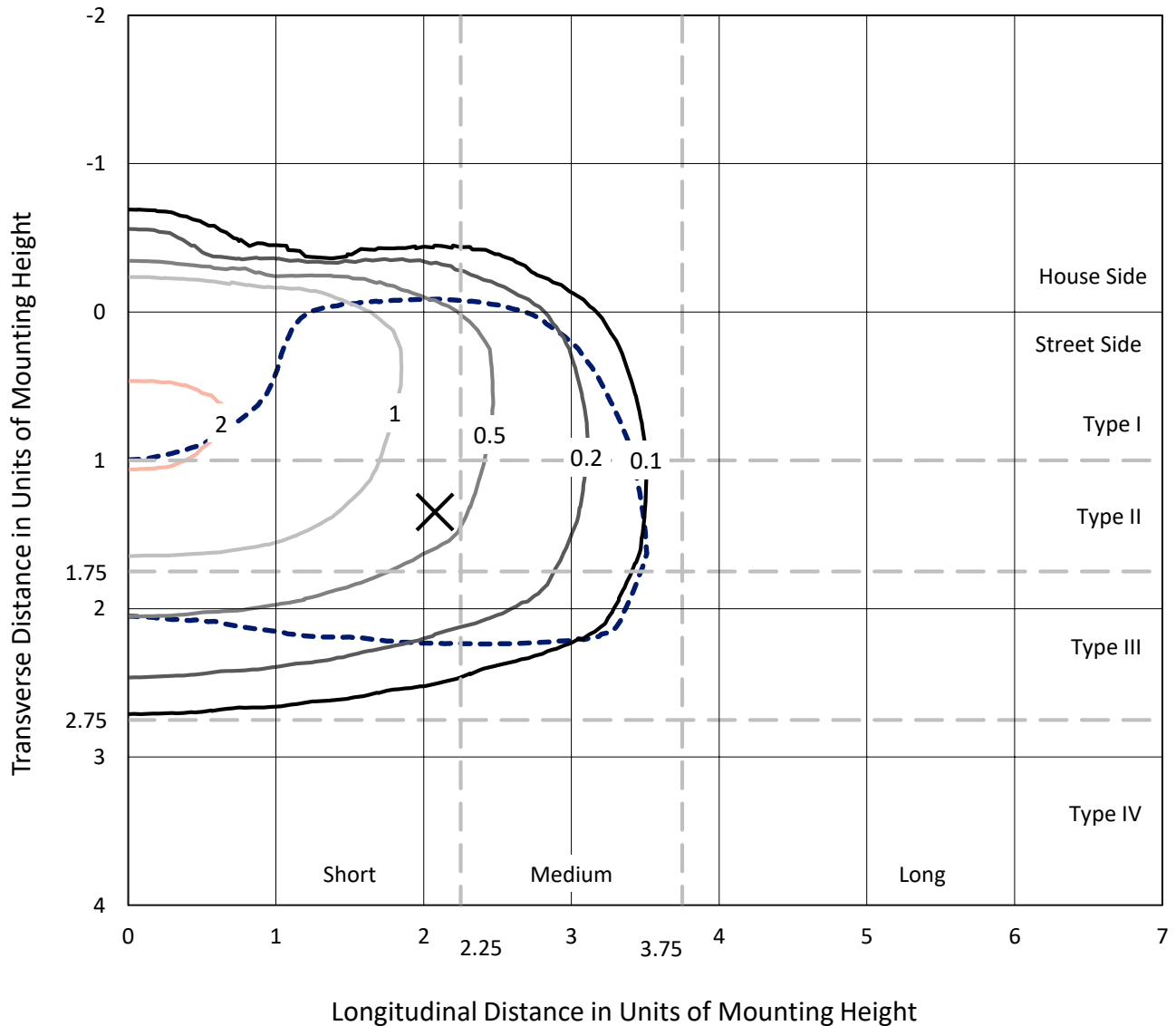


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

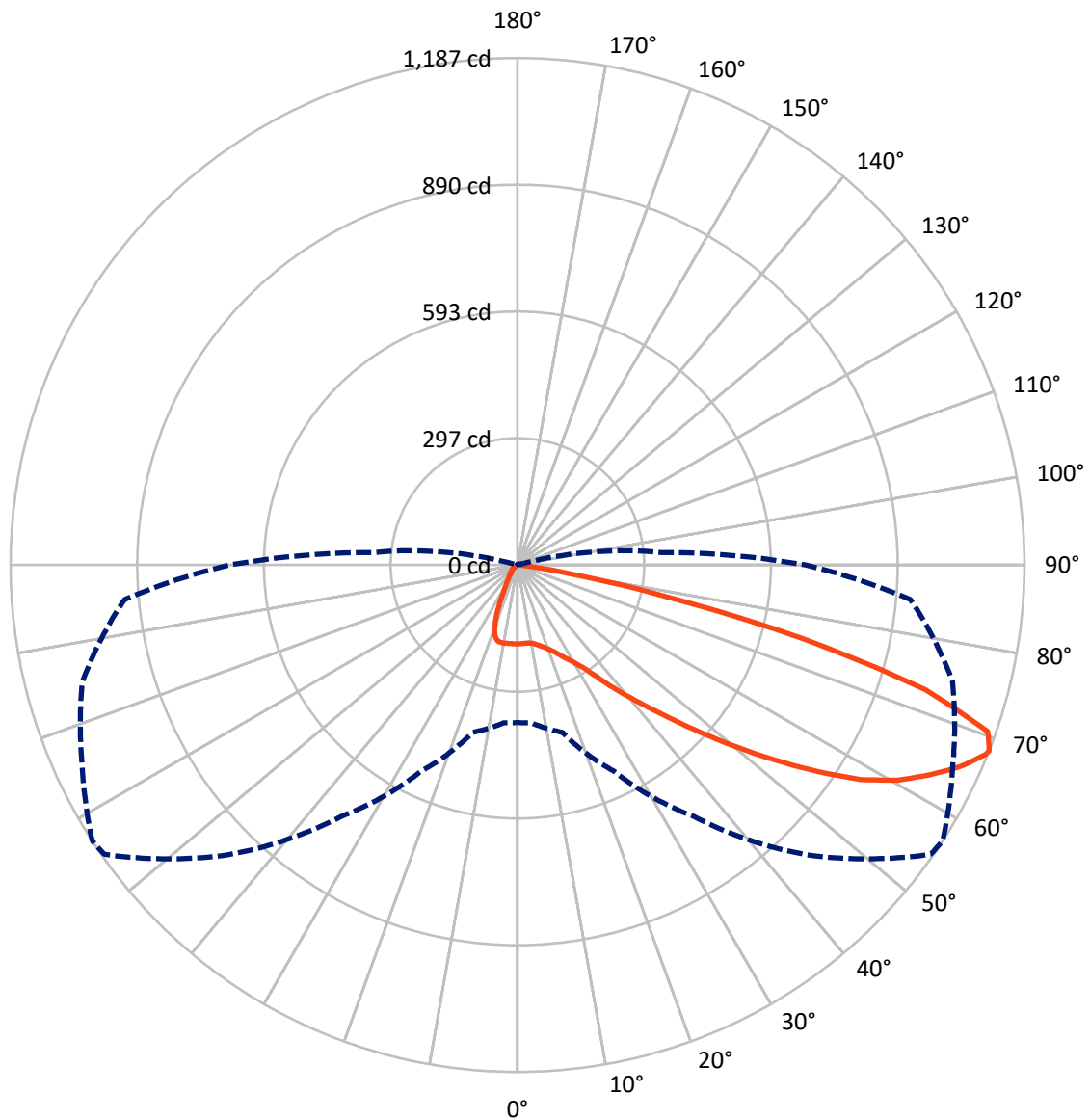


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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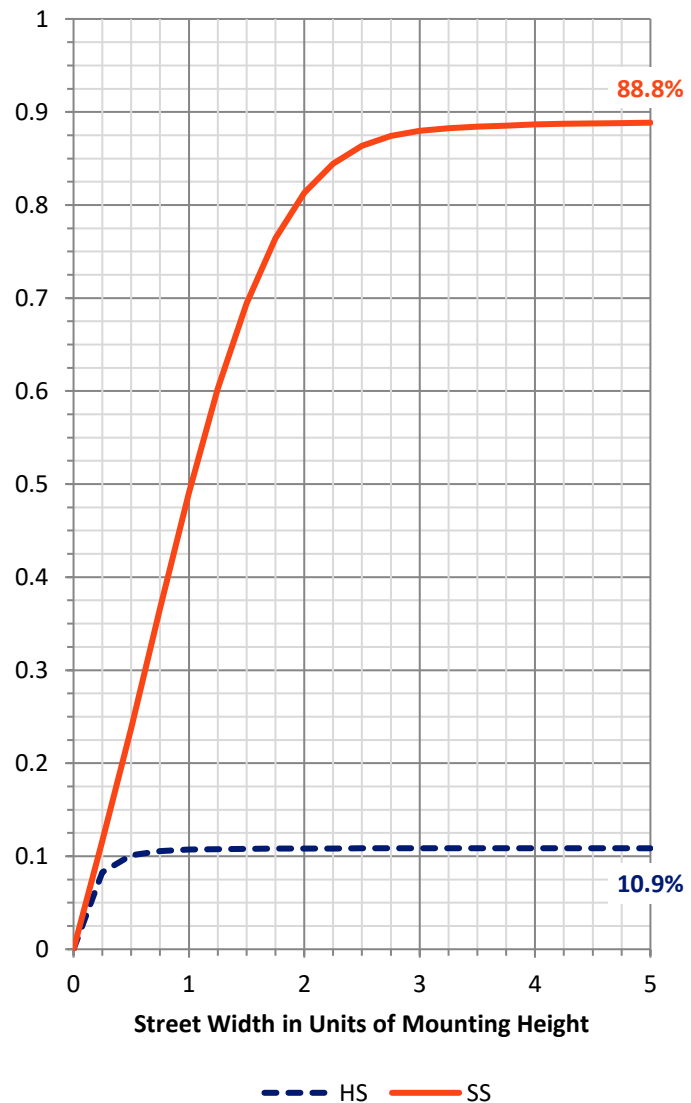
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	170.6	0.0	170.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1385.4	0.0	1385.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	1556.0	0.0	1556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	1.1
10°-20°	47.9	3.1
20°-30°	82.7	5.3
30°-40°	142.8	9.2
40°-50°	244.2	15.7
50°-60°	390.7	25.1
60°-70°	451.4	29.0
70°-80°	172.5	11.1
80°-90°	6.5	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°	1556.0	100.0
0°-180°	1556.0	100.0



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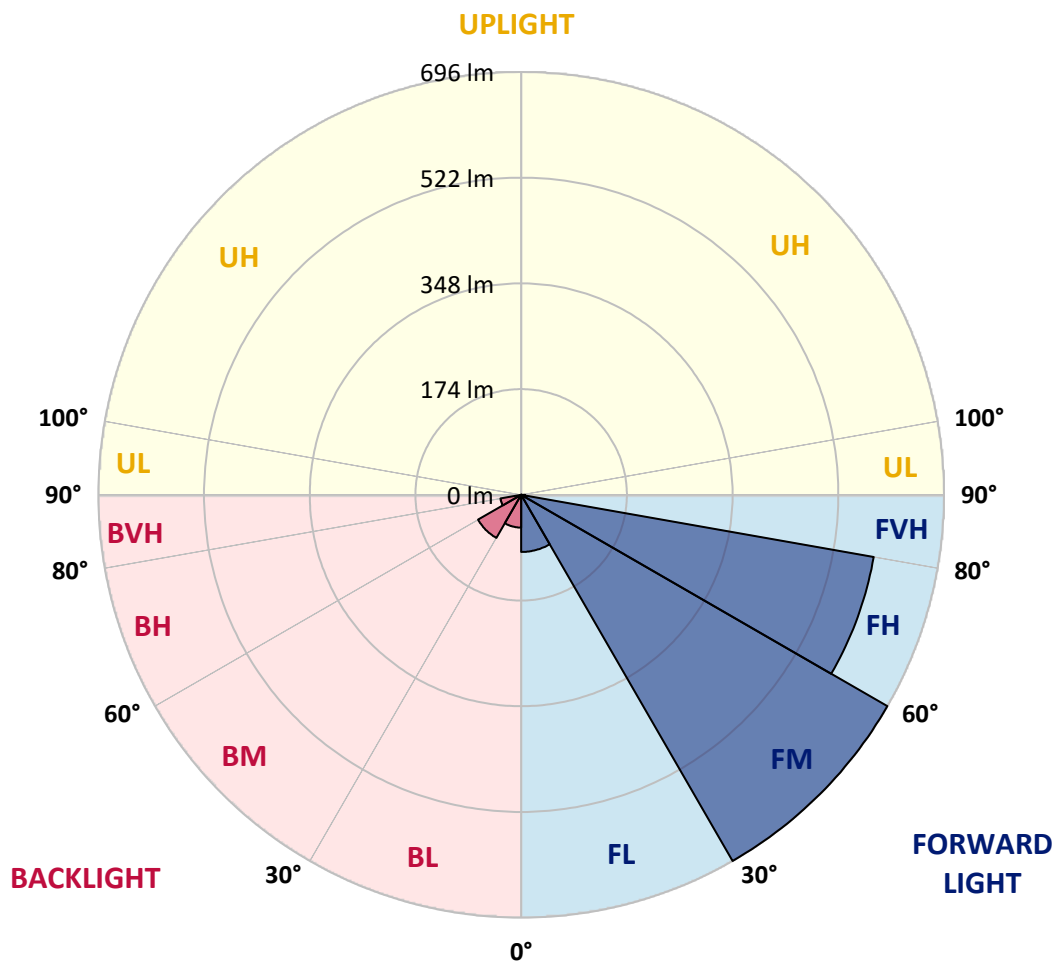
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.0	6.0			
FM (30°-60°)	695.8	44.7			
FH (60°-80°)	589.1	37.9			G0/660
FVH (80°-90°)	6.3	0.4			G0/10
BL (0°-30°)	53.9	3.5	B0/110		
BM (30°-60°)	81.8	5.3	B0/220		
BH (60°-80°)	34.8	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°	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9
2.5°	180.6	181.4	182.0	182.3	182.8	183.7	184.0	184.5	184.7	184.7	185.2
5°	173.4	174.3	175.5	176.6	178.6	181.3	183.2	183.9	185.3	186.4	187.1
7.5°	166.8	167.8	169.3	171.7	175.3	179.5	183.5	184.5	187.1	189.6	190.9
10°	162.5	163.3	165.2	168.7	173.3	179.3	184.9	186.1	190.6	194.8	197.1
12.5°	161.1	161.8	163.8	167.7	173.4	180.4	188.1	190.0	196.4	202.6	205.9
15°	163.2	163.3	165.5	169.1	174.8	183.1	193.5	195.7	203.9	211.8	215.9
17.5°	171.4	170.8	171.9	173.5	178.0	186.7	199.2	202.5	213.4	222.7	226.6
20°	192.0	192.0	189.5	185.1	185.2	192.3	206.8	210.6	223.9	234.7	238.2
22.5°	227.3	226.6	221.6	210.8	200.9	202.0	216.2	221.0	236.5	248.1	249.3
25°	269.7	268.8	261.1	245.9	228.7	217.6	228.8	234.4	251.6	261.9	259.4
27.5°	314.5	313.9	306.2	287.3	262.8	242.4	243.9	249.2	267.0	277.1	269.4
30°	358.0	358.2	350.7	331.2	303.5	274.1	263.0	266.1	281.9	292.2	281.1
32.5°	399.4	399.7	393.1	371.4	345.5	311.0	289.5	288.7	299.3	309.4	296.7
35°	436.2	437.0	432.5	415.6	388.2	352.1	323.9	322.0	324.0	335.4	320.6
37.5°	471.8	472.2	468.8	454.6	431.7	397.2	367.3	364.6	360.3	369.1	352.2
40°	510.7	509.6	505.7	492.8	473.1	447.0	413.9	409.2	401.8	409.6	393.7
42.5°	546.9	545.6	546.3	531.7	515.1	498.2	468.3	460.2	455.9	464.8	444.6
45°	592.1	591.5	593.7	581.0	567.6	555.3	530.6	521.8	519.9	530.4	506.2
47.5°	636.8	638.4	645.3	639.9	634.4	623.6	596.6	592.6	593.8	606.6	571.2
50°	674.0	675.9	694.7	700.9	708.7	702.4	675.3	672.9	677.6	689.0	641.1
52.5°	700.9	704.8	728.2	756.6	785.3	789.6	762.6	760.4	766.7	768.4	695.1
55°	719.6	723.1	749.5	801.6	860.0	878.4	861.6	853.1	851.9	834.5	751.9
57.5°	722.9	722.6	760.5	830.7	918.6	966.0	955.4	947.1	922.9	895.6	817.0
60°	704.3	706.4	750.5	840.7	955.4	1032.3	1033.1	1022.3	984.7	954.9	880.1
62.5°	646.7	655.4	699.9	814.3	954.9	1059.0	1090.1	1081.8	1036.8	1003.6	944.1
65°	553.4	556.5	599.0	723.8	890.4	1047.9	1141.4	1138.3	1083.8	1050.8	977.0
67.5°	404.1	397.5	442.0	570.0	753.8	982.7	1178.2	1182.1	1120.1	1060.5	942.0
68°	368.8	370.8	405.5	531.9	718.1	959.6	1180.6	1186.5	1123.7	1054.2	922.9
70°	219.8	223.7	254.6	366.3	546.3	829.3	1154.4	1168.0	1102.2	988.9	798.2
72.5°	56.1	60.7	90.0	163.9	312.0	584.3	974.5	997.5	957.0	802.3	538.9
75°	23.1	24.3	32.2	54.0	116.2	263.3	642.3	691.6	663.4	480.3	243.5
77.5°	16.0	16.8	20.7	29.9	50.3	89.2	314.9	350.5	315.8	163.9	53.1
80°	11.5	12.1	14.8	19.9	28.9	31.9	102.6	118.7	94.2	36.0	13.2
82.5°	6.8	7.4	11.0	14.2	17.6	15.2	25.5	29.0	27.3	17.9	5.9
85°	3.4	4.0	7.4	10.2	9.5	6.4	7.8	8.7	10.7	10.9	3.2
87.5°	0.2	0.4	4.3	6.1	2.6	1.5	2.3	2.8	3.8	5.4	1.3
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°	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9
2.5°	185.4	185.5	185.0	184.7	184.9	184.0	183.6	183.8	183.8	184.0	183.6
5°	187.2	187.2	186.4	185.2	184.5	182.8	181.7	181.4	181.2	181.1	180.8
7.5°	191.2	190.8	189.2	186.7	184.5	180.8	178.0	176.5	175.8	175.5	175.3
10°	197.6	196.8	194.2	189.5	184.4	177.8	171.7	167.4	163.8	162.3	161.4
12.5°	206.2	205.1	200.7	192.8	183.9	171.8	158.6	145.8	134.0	129.1	126.7
15°	216.2	214.5	207.6	195.6	180.8	158.2	129.4	107.1	90.7	84.5	81.9
17.5°	226.2	224.0	213.7	197.3	171.8	130.0	90.8	68.6	57.6	54.7	53.6
20°	236.4	233.2	218.9	196.0	151.3	93.7	59.9	50.1	46.9	46.1	45.8
22.5°	246.0	241.0	223.6	190.9	119.9	62.9	47.4	44.3	43.3	42.7	42.6
25°	254.4	247.4	227.7	175.0	84.8	47.5	42.7	41.6	40.3	39.4	39.4
27.5°	262.3	253.8	230.2	148.8	56.6	40.6	39.5	38.1	35.7	34.3	34.3
30°	271.8	262.4	232.1	114.5	41.6	35.9	35.0	32.9	29.6	27.7	27.7
32.5°	286.1	275.3	230.9	80.3	34.5	31.6	29.5	26.6	23.0	21.2	21.1
35°	307.9	295.3	222.5	52.7	30.5	27.4	24.1	20.5	17.4	15.9	15.8
37.5°	337.3	322.1	203.7	37.7	27.3	23.6	19.6	15.7	13.3	12.4	12.3
40°	375.5	353.2	176.7	30.5	24.4	19.9	15.2	12.1	10.5	9.8	9.9
42.5°	421.4	386.6	144.4	26.3	21.5	16.4	11.8	9.6	8.5	8.0	7.9
45°	472.3	419.5	110.6	23.5	18.6	13.2	9.3	7.6	6.8	6.5	6.5
47.5°	528.3	451.5	80.9	21.0	15.5	10.2	7.4	6.2	5.5	5.3	5.2
50°	579.1	473.7	58.3	18.3	12.7	8.1	6.0	5.2	4.7	4.4	4.4
52.5°	621.5	480.7	43.0	15.5	10.3	6.5	5.0	4.4	4.0	3.8	3.8
55°	658.8	477.8	31.9	12.7	8.3	5.3	4.3	3.8	3.4	3.2	3.2
57.5°	694.5	468.5	23.8	10.4	6.7	4.3	3.6	3.2	2.8	2.6	2.6
60°	723.8	453.1	17.7	8.4	5.4	3.5	3.0	2.6	2.3	2.1	2.1
62.5°	747.4	436.0	13.0	6.9	4.3	2.7	2.4	2.1	1.7	1.5	1.5
65°	747.6	407.7	9.8	5.7	3.3	2.1	1.8	1.7	1.1	0.9	0.8
67.5°	693.5	351.5	7.5	4.9	2.6	1.6	1.3	1.4	0.6	0.4	0.3
68°	673.9	337.2	7.1	4.9	2.4	1.5	1.3	1.4	0.5	0.3	0.2
70°	568.1	268.3	5.7	4.7	2.1	1.2	1.0	1.4	0.4	0.2	0.1
72.5°	363.4	155.7	4.2	3.8	1.6	0.9	0.7	1.3	0.4	0.1	0.1
75°	154.7	48.3	2.9	2.6	1.0	0.7	0.4	0.8	0.3	0.1	0.0
77.5°	32.6	10.9	1.7	1.6	0.7	0.4	0.3	0.2	0.1	0.0	0.0
80°	8.4	3.2	0.9	0.8	0.4	0.2	0.1	0.0	0.0	0.0	0.0
82.5°	2.6	1.3	0.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	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)