

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: P348989

Luminaire Tested: **ARCH-N-PA1-19-740-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-740-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2157 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

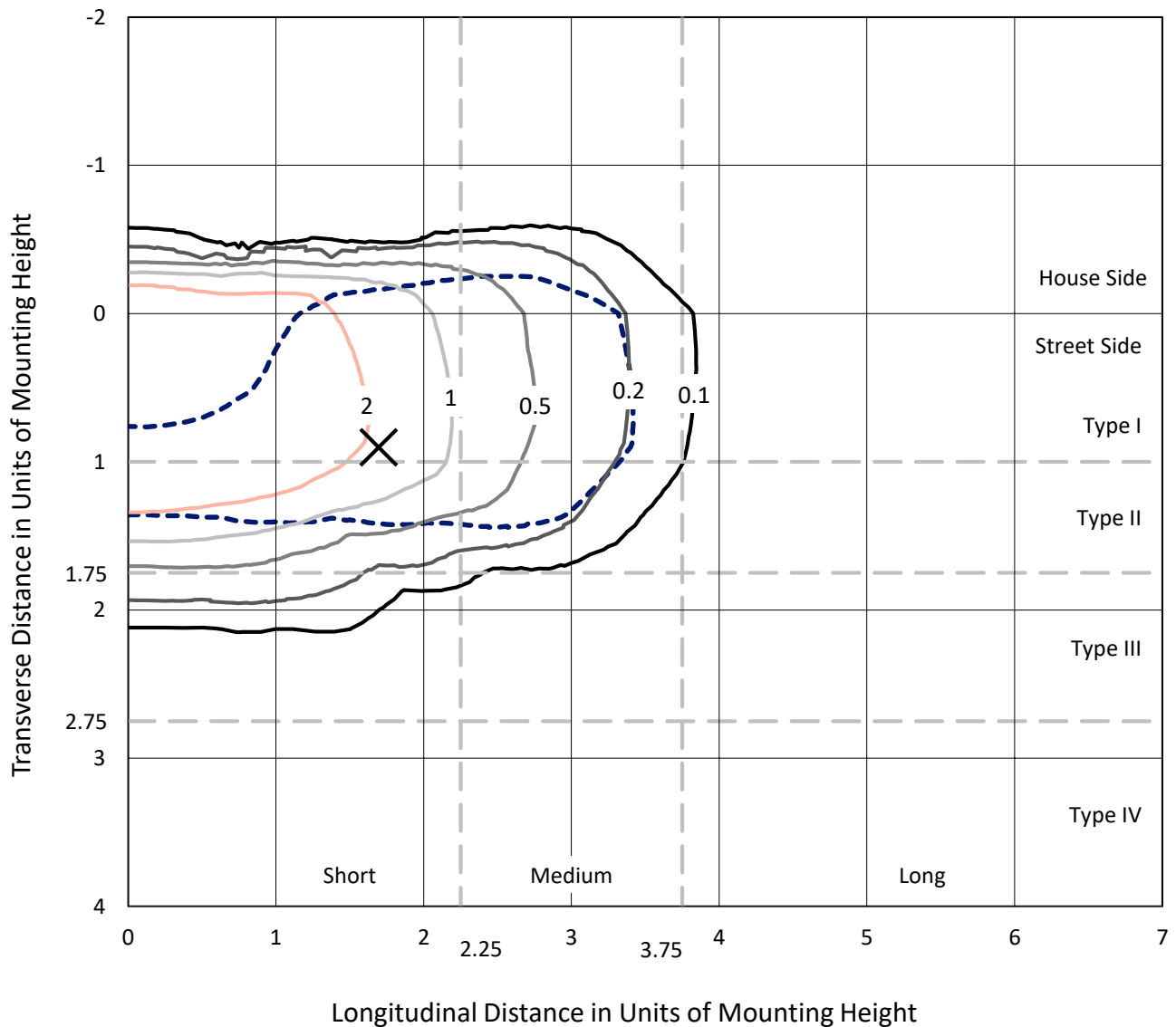
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

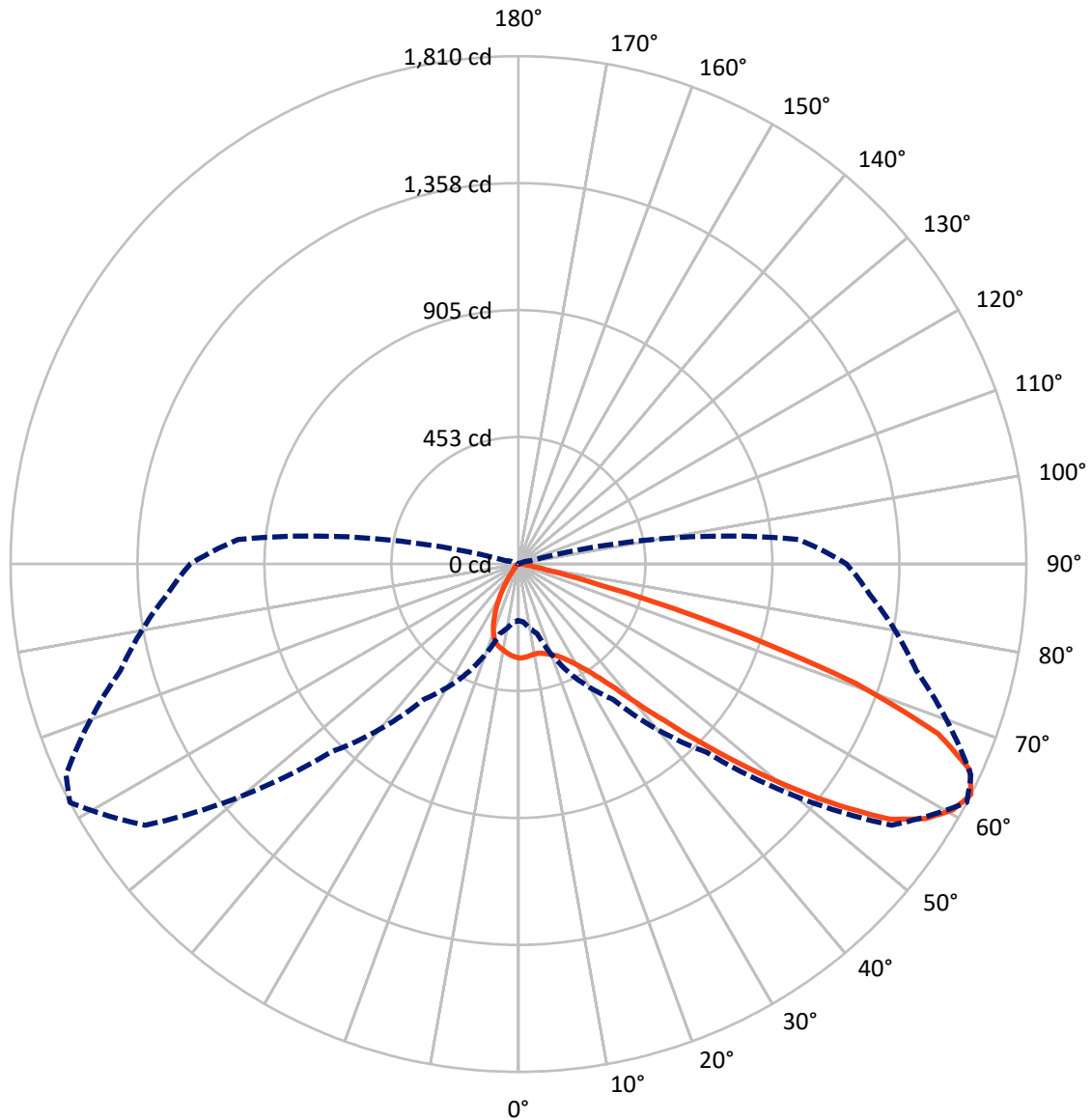
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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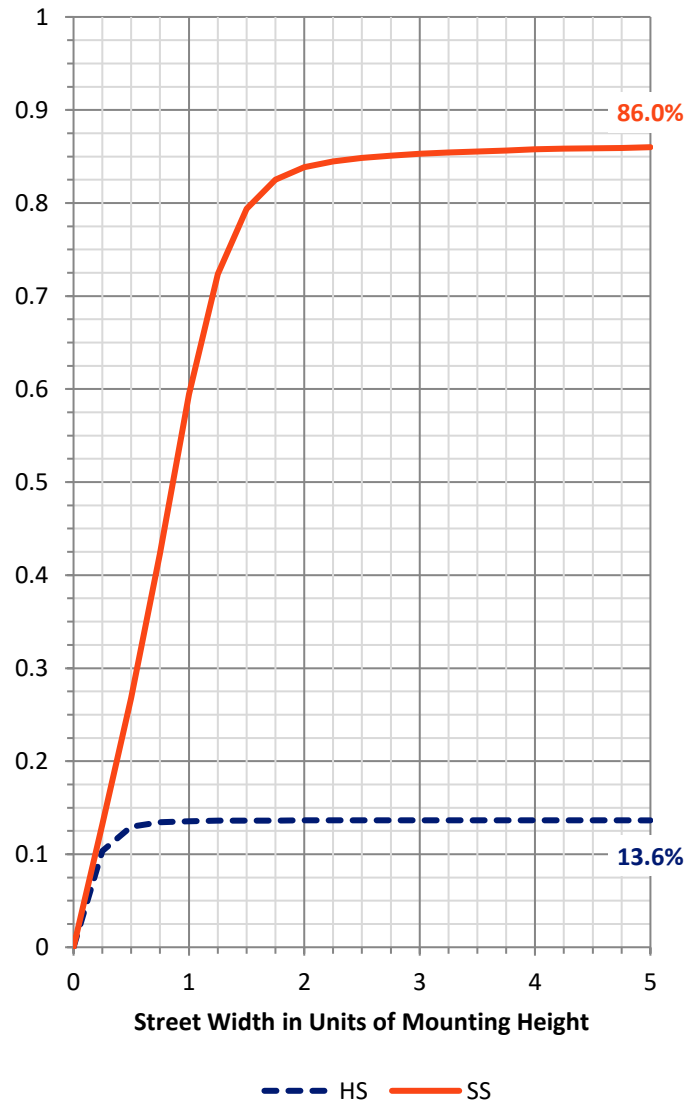
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	297.8	0.0	297.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	1859.2	0.0	1859.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	2157.0	0.0	2157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	1.4
10°-20°	76.6	3.6
20°-30°	114.4	5.3
30°-40°	218.0	10.1
40°-50°	454.5	21.1
50°-60°	603.8	28.0
60°-70°	470.7	21.8
70°-80°	177.9	8.2
80°-90°	10.7	0.5
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°	2157.0	100.0
0°-180°	2157.0	100.0



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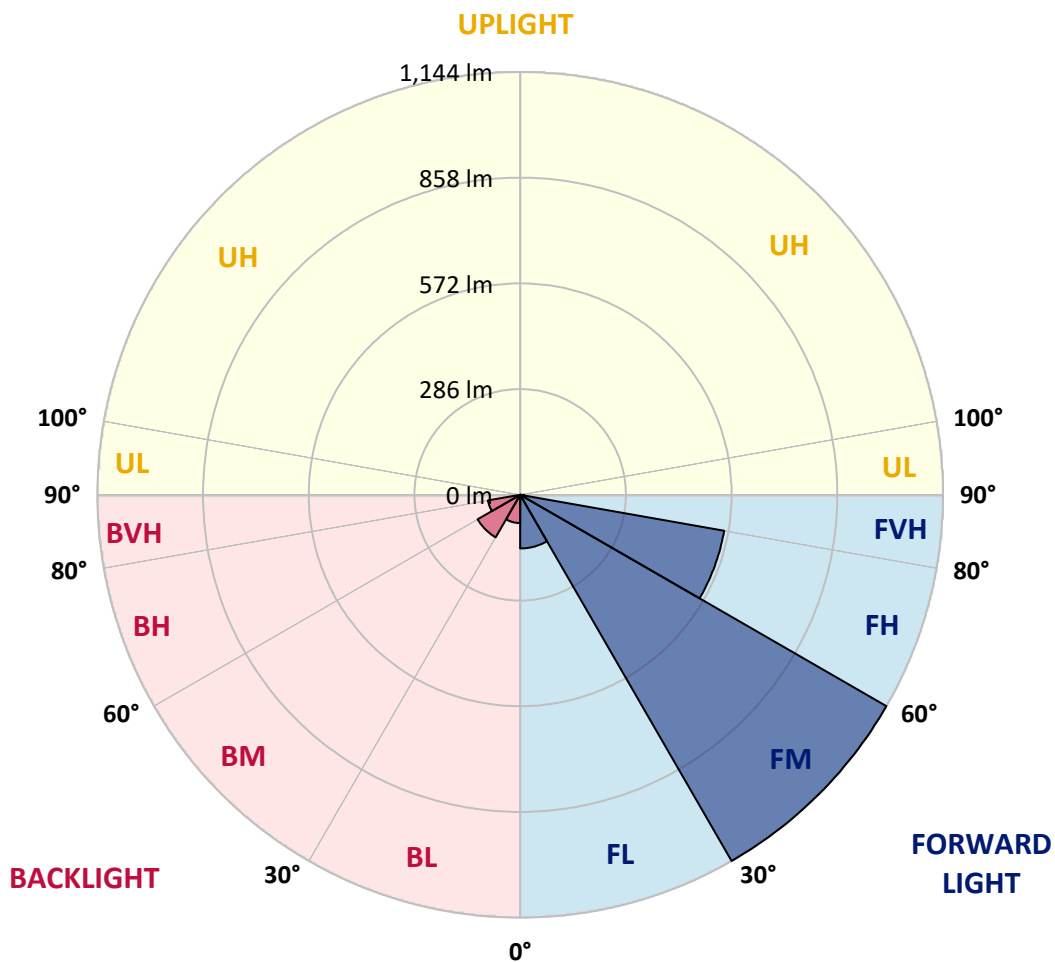
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	145.1	6.7			
FM (30°-60°)	1143.6	53.0			
FH (60°-80°)	560.2	26.0			G0/660
FVH (80°-90°)	10.1	0.5			G1/100
BL (0°-30°)	76.4	3.5	B0/110		
BM (30°-60°)	132.6	6.1	B0/220		
BH (60°-80°)	88.3	4.1	B0/110		G0/110
BVH (80°-90°)	0.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1
2.5°	334.0	333.4	334.8	334.8	334.5	335.1	334.5	334.3	334.0	333.4	332.9
5°	325.2	325.2	327.2	328.1	328.9	330.6	331.2	331.7	331.4	332.0	332.3
7.5°	315.1	315.7	317.9	319.0	320.5	323.8	325.8	328.1	328.3	330.3	331.4
10°	306.6	307.2	309.5	310.9	312.8	317.4	321.6	325.5	326.1	329.8	330.6
12.5°	301.0	301.6	303.8	305.8	310.0	315.7	321.6	326.1	327.5	332.0	332.0
15°	298.7	299.3	302.1	305.5	311.2	318.5	325.8	330.6	333.4	337.1	335.4
17.5°	297.9	299.0	303.8	308.9	315.1	323.0	332.0	337.1	339.9	343.8	340.2
20°	300.4	301.9	308.1	315.1	321.6	329.8	339.6	345.3	348.1	350.6	343.6
22.5°	309.5	311.7	317.1	325.0	330.0	339.9	349.8	356.2	359.3	359.1	349.8
25°	331.2	334.0	336.5	340.7	343.0	354.8	365.3	371.7	374.0	373.2	362.4
27.5°	382.5	386.1	377.1	367.8	362.7	373.7	385.3	392.0	394.0	392.3	376.0
30°	469.0	469.3	448.7	419.4	397.7	396.5	410.6	419.7	419.7	416.3	395.1
32.5°	595.0	585.9	560.0	508.2	459.1	433.5	444.2	452.9	452.9	448.7	424.5
35°	753.4	746.6	703.8	641.5	554.1	492.7	490.4	498.9	499.1	498.0	470.4
37.5°	914.6	897.9	862.1	787.5	684.9	583.7	556.6	562.6	566.8	566.2	531.8
40°	1064.5	1047.9	1017.7	945.9	845.5	717.8	653.0	653.0	653.3	650.5	609.1
42.5°	1182.3	1174.7	1152.2	1102.3	1024.8	928.9	783.0	761.5	757.0	754.2	699.8
45°	1258.7	1250.8	1238.7	1228.3	1203.2	1168.8	957.4	901.3	894.0	866.4	800.1
47.5°	1262.9	1250.8	1259.0	1298.4	1355.1	1372.8	1172.7	1064.2	1044.8	994.9	900.8
50°	1168.8	1169.9	1201.8	1297.6	1450.6	1551.8	1401.0	1243.5	1212.8	1113.0	989.5
52.5°	995.7	1007.0	1056.3	1203.7	1455.1	1666.2	1599.7	1428.4	1367.5	1219.0	1052.1
55°	779.6	789.7	870.3	1029.8	1345.5	1682.6	1744.3	1605.4	1524.8	1292.8	1108.2
57.5°	551.3	570.4	670.5	817.1	1136.4	1557.7	1783.8	1711.3	1633.3	1364.7	1160.9
60°	335.1	344.7	448.7	619.2	856.5	1296.5	1737.5	1779.0	1715.8	1427.0	1210.2
62.5°	201.5	207.2	257.0	426.4	589.3	949.2	1623.1	1810.0	1779.0	1468.4	1257.6
65°	119.2	122.9	146.3	257.6	392.6	582.3	1375.9	1767.4	1792.5	1504.2	1285.2
67.5°	86.0	87.1	95.5	138.7	263.5	312.0	956.8	1612.4	1706.3	1516.0	1268.8
70°	74.1	75.5	83.7	97.5	186.6	184.0	498.0	1276.2	1446.4	1454.3	1199.8
72.5°	56.1	58.6	72.2	91.6	133.9	130.8	187.7	761.0	981.9	1193.9	1034.4
75°	38.0	39.5	53.5	77.8	104.6	97.5	98.4	305.5	480.3	748.6	710.8
77.5°	24.0	25.1	32.7	55.8	89.6	68.8	69.6	108.5	173.3	317.4	304.7
80°	16.3	16.9	19.7	36.1	60.6	59.7	44.8	56.6	64.5	97.8	65.7
82.5°	9.9	9.9	13.0	21.4	36.6	47.3	28.2	31.3	34.4	36.4	14.9
85°	3.4	3.7	7.9	13.2	22.5	23.7	16.1	18.6	19.4	21.1	7.0
87.5°	1.4	1.1	4.2	7.3	9.6	11.0	9.3	8.5	9.3	12.4	3.1
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°	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1	335.1
2.5°	333.1	332.0	332.0	331.7	330.0	329.2	328.3	326.1	327.5	325.8	324.7
5°	331.4	330.6	329.2	327.8	323.8	320.5	319.0	316.2	315.9	313.7	312.6
7.5°	331.2	329.2	326.9	322.1	316.2	310.9	306.1	301.3	299.3	296.8	295.4
10°	329.8	327.2	323.0	315.4	306.6	298.2	287.5	274.2	264.4	258.7	257.9
12.5°	330.0	327.2	320.7	309.5	297.9	279.3	250.6	220.4	195.6	185.2	183.5
15°	332.3	329.2	319.3	304.1	284.4	243.5	190.8	144.6	112.5	100.9	98.4
17.5°	335.1	329.8	316.2	296.5	258.4	188.8	120.1	75.8	57.8	51.3	50.2
20°	336.8	329.5	311.2	284.9	219.0	126.3	65.4	44.5	39.2	37.8	37.2
22.5°	341.0	330.3	306.9	266.9	169.4	76.1	41.4	34.7	31.6	29.9	29.6
25°	349.8	336.0	307.2	243.5	118.7	45.9	33.5	28.2	25.4	23.7	23.1
27.5°	362.4	346.1	312.6	214.5	73.3	34.7	27.9	22.8	19.7	18.3	18.0
30°	378.5	358.5	318.8	176.7	45.7	29.0	22.5	17.8	15.5	14.7	14.4
32.5°	403.9	379.9	324.1	132.2	31.6	24.0	17.8	14.1	12.7	11.8	11.8
35°	445.9	416.8	332.9	88.5	25.1	19.2	14.4	11.6	10.4	9.9	9.9
37.5°	505.1	469.5	337.1	55.0	20.6	14.9	11.6	9.6	8.7	8.2	8.2
40°	577.2	533.5	331.2	34.1	17.2	12.1	9.6	8.2	7.3	7.0	7.0
42.5°	660.3	607.1	312.6	24.2	14.4	9.9	8.2	7.0	6.5	6.2	6.2
45°	753.4	687.7	279.0	20.3	12.1	8.5	7.0	5.9	5.6	5.4	5.4
47.5°	846.1	769.4	235.6	17.5	10.1	7.0	5.9	5.1	4.8	4.5	4.5
50°	927.0	841.0	189.7	15.2	8.5	6.2	5.1	4.2	3.9	3.7	3.7
52.5°	973.2	883.6	146.8	12.7	7.3	5.4	3.9	3.4	3.1	2.8	2.8
55°	1023.1	919.1	109.6	10.7	5.9	4.5	3.1	2.5	2.3	2.0	2.0
57.5°	1069.6	950.9	81.5	8.7	5.1	3.4	2.5	2.0	1.7	1.4	1.4
60°	1114.7	978.0	60.3	7.0	4.2	2.8	2.0	1.4	1.1	0.8	0.8
62.5°	1169.6	1002.8	44.2	5.6	3.7	2.0	1.4	0.8	0.6	0.3	0.3
65°	1210.5	1015.5	33.3	4.2	3.1	1.4	0.8	0.6	0.0	0.0	0.0
67.5°	1210.2	990.9	24.2	3.1	2.3	1.1	0.6	0.0	0.0	0.0	0.0
70°	1153.6	916.5	16.9	2.5	1.7	0.8	0.3	0.0	0.0	0.0	0.0
72.5°	989.3	724.9	11.0	1.7	1.4	0.6	0.3	0.0	0.0	0.0	0.0
75°	667.7	368.1	6.5	1.4	1.1	0.6	0.3	0.0	0.0	0.0	0.0
77.5°	285.5	144.6	3.4	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0
80°	59.7	34.9	1.4	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	5.1	0.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.6	0.3	0.3	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)