

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: P348821

Luminaire Tested: **ARCH-N-PA1-19-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348821
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-PA1-19-740-U-T3-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: 2117 lumens
Efficiency: N/A
Efficacy: 111.4 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 - 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

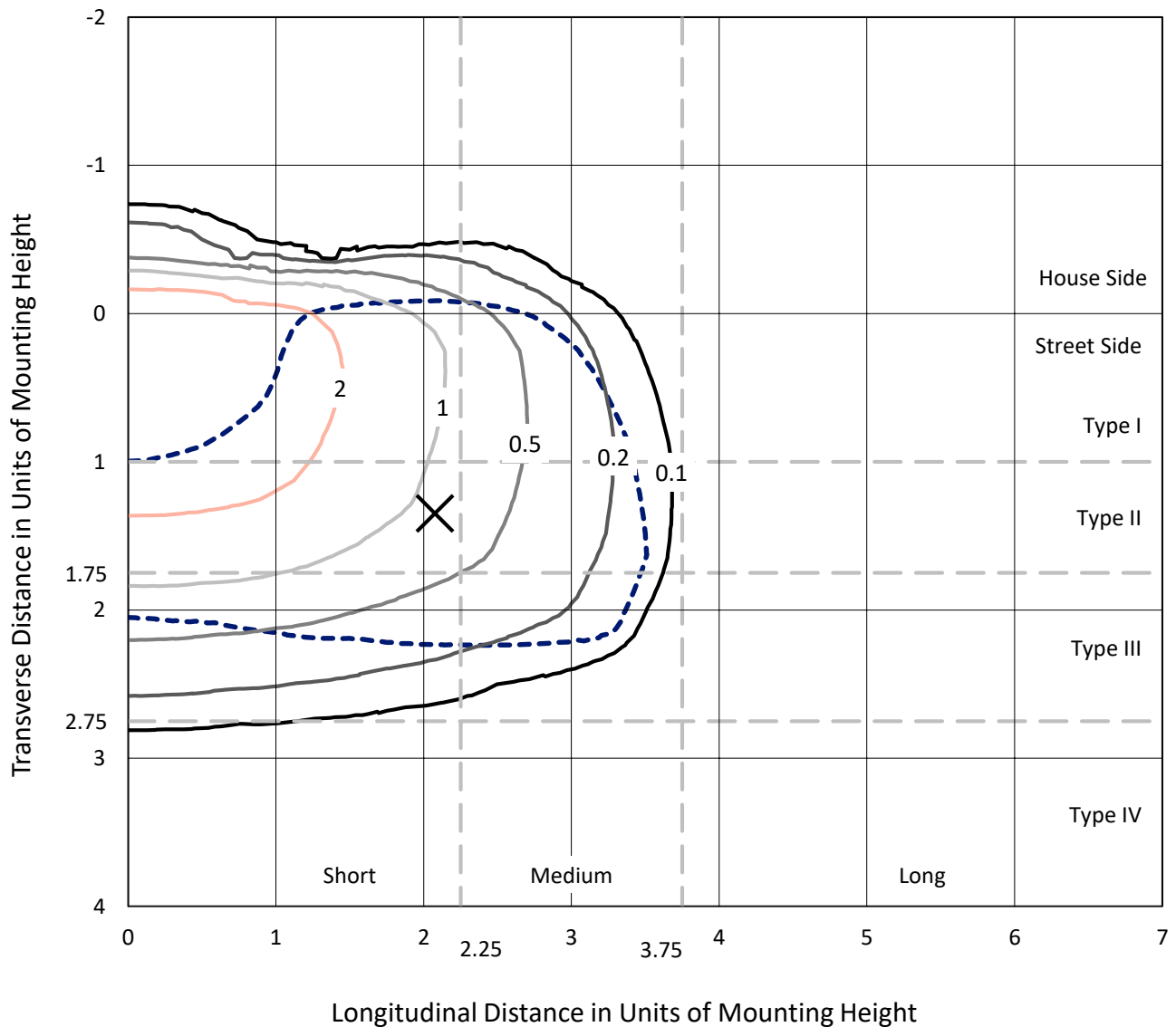


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

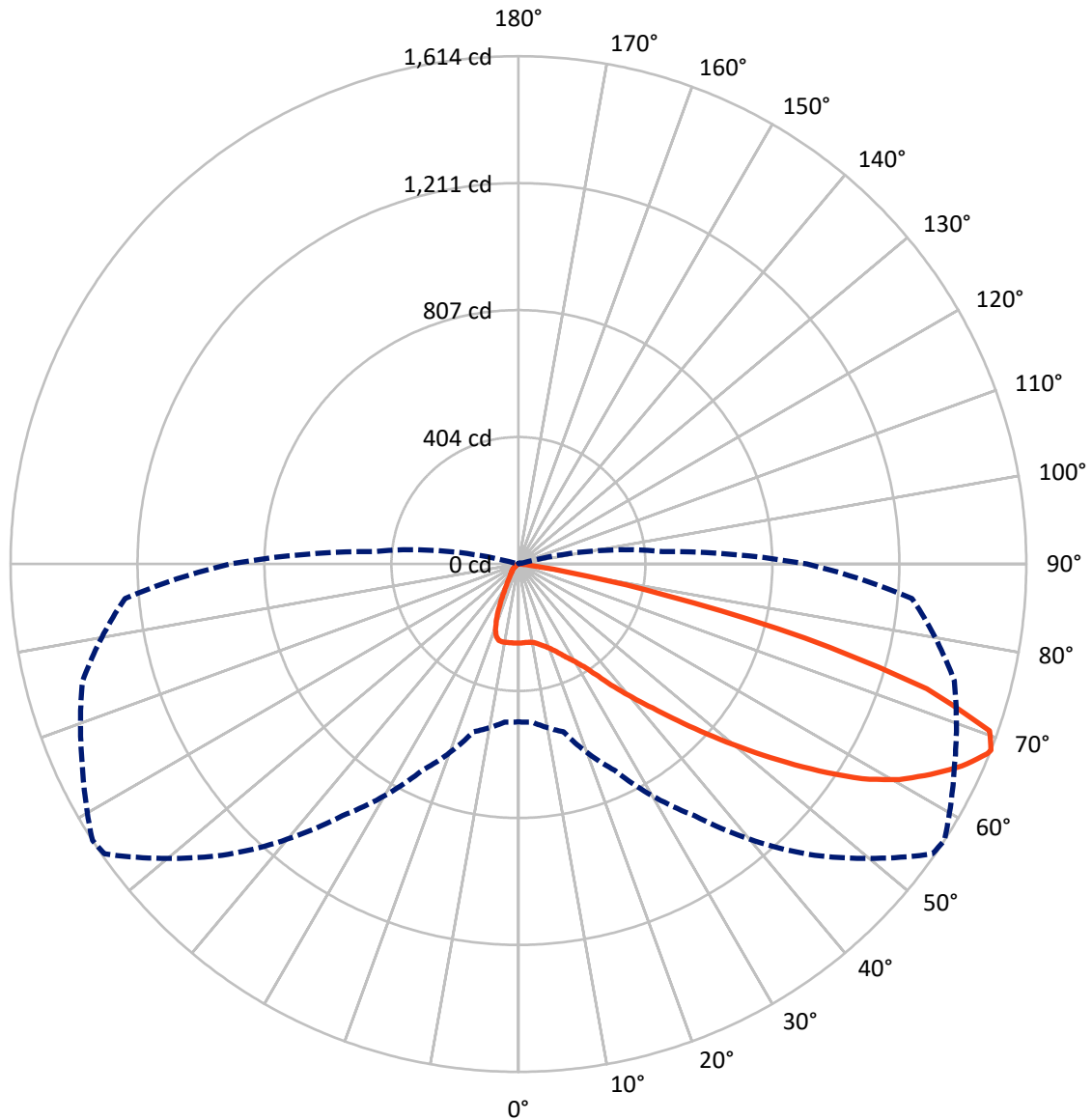


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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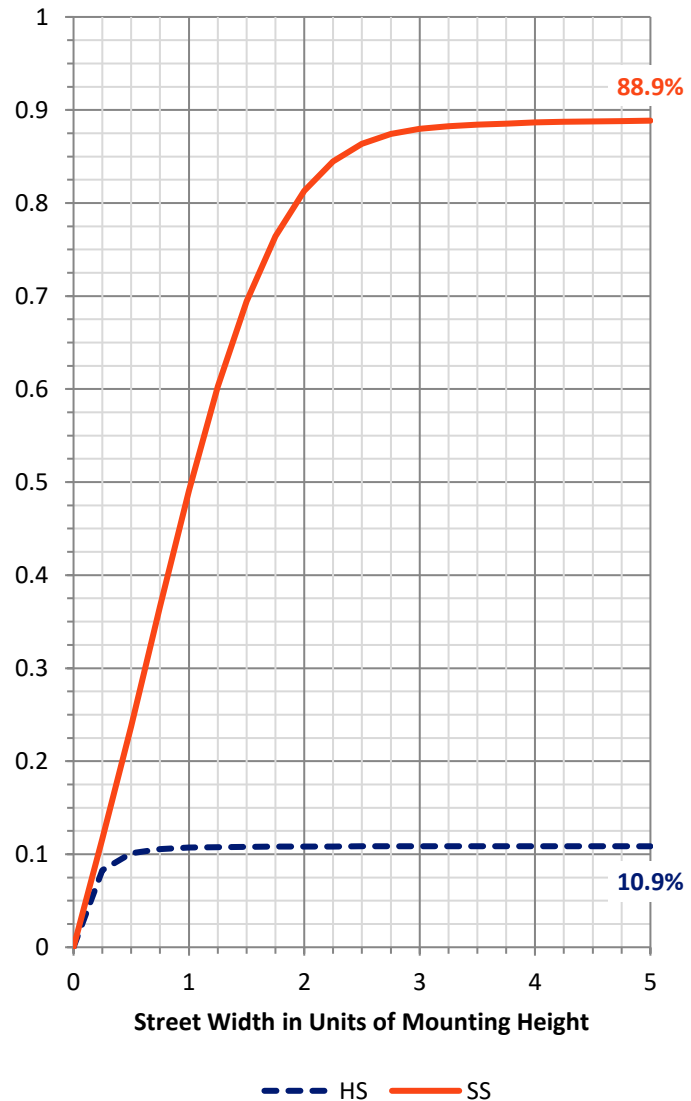
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	232.1	0.0	232.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	1884.8	0.0	1884.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	2117.0	0.0	2117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	1.1
10°-20°	65.2	3.1
20°-30°	112.5	5.3
30°-40°	194.2	9.2
40°-50°	332.2	15.7
50°-60°	531.6	25.1
60°-70°	614.2	29.0
70°-80°	234.7	11.1
80°-90°	8.8	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°	2117.0	100.0
0°-180°	2117.0	100.0



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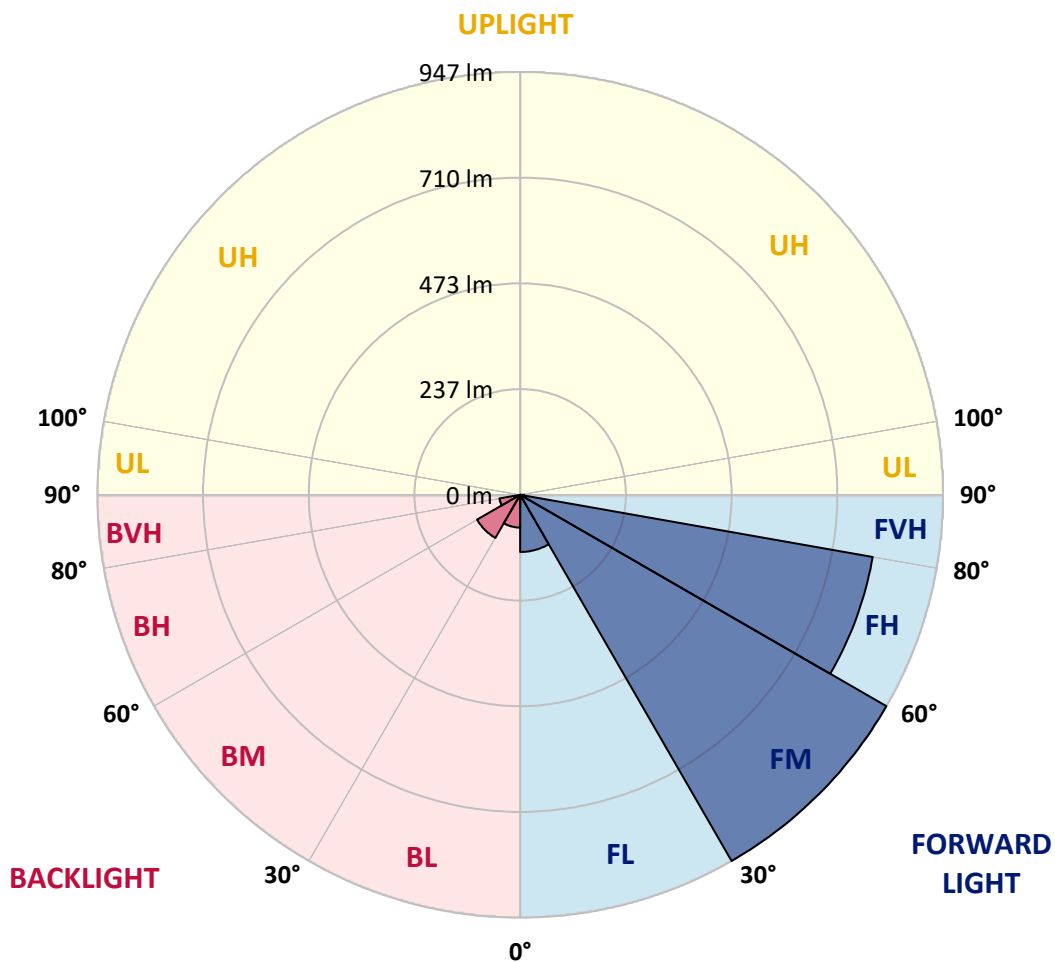
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.0	6.0			
FM (30°-60°)	946.7	44.7			
FH (60°-80°)	801.6	37.9			G1/1800
FVH (80°-90°)	8.6	0.4			G0/10
BL (0°-30°)	73.4	3.5	B0/110		
BM (30°-60°)	111.3	5.3	B0/220		
BH (60°-80°)	47.3	2.2	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6
2.5°	245.6	246.8	247.6	248.1	248.7	250.0	250.4	251.0	251.3	251.3	252.0
5°	235.9	237.1	238.8	240.2	243.0	246.7	249.3	250.3	252.1	253.7	254.6
7.5°	226.9	228.3	230.3	233.6	238.4	244.2	249.7	251.1	254.6	258.0	259.7
10°	221.1	222.2	224.8	229.5	235.8	243.9	251.6	253.3	259.3	265.0	268.2
12.5°	219.1	220.1	222.8	228.1	235.9	245.4	256.0	258.5	267.3	275.6	280.1
15°	222.0	222.2	225.1	230.1	237.8	249.2	263.3	266.3	277.4	288.2	293.8
17.5°	233.2	232.3	233.8	236.0	242.1	254.1	271.0	275.5	290.3	303.0	308.3
20°	261.3	261.3	257.9	251.9	252.0	261.7	281.4	286.5	304.6	319.3	324.1
22.5°	309.2	308.3	301.5	286.8	273.3	274.8	294.1	300.7	321.8	337.5	339.1
25°	366.9	365.8	355.3	334.5	311.1	296.0	311.3	318.9	342.3	356.3	353.0
27.5°	427.9	427.0	416.6	390.9	357.6	329.8	331.8	339.0	363.3	377.0	366.5
30°	487.1	487.4	477.1	450.7	412.9	373.0	357.9	362.1	383.6	397.5	382.5
32.5°	543.4	543.8	534.8	505.3	470.1	423.1	393.9	392.8	407.2	420.9	403.7
35°	593.5	594.5	588.4	565.5	528.1	479.0	440.6	438.0	440.7	456.3	436.2
37.5°	641.9	642.5	637.8	618.5	587.3	540.3	499.7	496.0	490.2	502.1	479.2
40°	694.8	693.3	688.0	670.5	643.7	608.1	563.2	556.8	546.7	557.3	535.6
42.5°	744.1	742.4	743.3	723.4	700.8	677.8	637.1	626.1	620.2	632.4	604.9
45°	805.6	804.7	807.7	790.5	772.2	755.5	721.9	709.9	707.3	721.6	688.7
47.5°	866.4	868.6	877.9	870.6	863.2	848.5	811.7	806.3	807.9	825.2	777.1
50°	917.0	919.6	945.2	953.6	964.3	955.7	918.8	915.5	921.8	937.5	872.2
52.5°	953.7	959.0	990.7	1029.4	1068.5	1074.3	1037.6	1034.6	1043.1	1045.5	945.7
55°	979.1	983.8	1019.7	1090.6	1170.1	1195.1	1172.3	1160.7	1159.1	1135.4	1022.9
57.5°	983.6	983.1	1034.8	1130.1	1249.8	1314.3	1299.9	1288.5	1255.7	1218.4	1111.5
60°	958.2	961.1	1021.0	1143.9	1299.8	1404.5	1405.6	1390.8	1339.7	1299.2	1197.4
62.5°	879.9	891.7	952.3	1107.9	1299.2	1440.9	1483.1	1471.8	1410.6	1365.4	1284.5
65°	753.0	757.2	814.9	984.8	1211.4	1425.6	1552.9	1548.7	1474.6	1429.7	1329.2
67.5°	549.9	540.7	601.4	775.5	1025.6	1337.0	1602.9	1608.2	1523.9	1442.9	1281.6
68°	501.8	504.5	551.8	723.7	977.0	1305.6	1606.2	1614.3	1528.9	1434.3	1255.6
70°	299.1	304.3	346.5	498.3	743.3	1128.3	1570.6	1589.1	1499.6	1345.5	1086.0
72.5°	76.4	82.6	122.4	223.0	424.5	795.0	1325.8	1357.2	1302.0	1091.5	733.1
75°	31.4	33.0	43.7	73.5	158.2	358.2	873.9	941.0	902.6	653.5	331.3
77.5°	21.7	22.8	28.1	40.7	68.5	121.4	428.4	476.9	429.6	223.0	72.3
80°	15.6	16.5	20.1	27.1	39.3	43.3	139.6	161.5	128.2	48.9	17.9
82.5°	9.3	10.0	15.0	19.3	23.9	20.7	34.7	39.4	37.1	24.3	8.0
85°	4.6	5.4	10.1	13.8	12.9	8.7	10.6	11.8	14.6	14.8	4.3
87.5°	0.3	0.6	5.9	8.3	3.6	2.0	3.1	3.8	5.2	7.3	1.8
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°	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6	251.6
2.5°	252.3	252.4	251.7	251.4	251.6	250.4	249.9	250.1	250.1	250.4	249.9
5°	254.8	254.8	253.6	252.0	251.1	248.8	247.3	246.9	246.6	246.4	245.9
7.5°	260.2	259.6	257.5	254.0	251.0	245.9	242.1	240.1	239.1	238.7	238.4
10°	268.9	267.8	264.3	257.8	250.9	241.9	233.6	227.7	222.8	220.8	219.6
12.5°	280.6	279.0	273.1	262.3	250.2	233.7	215.7	198.4	182.3	175.7	172.4
15°	294.1	291.8	282.5	266.1	246.0	215.2	176.1	145.7	123.4	115.0	111.4
17.5°	307.8	304.8	290.7	268.5	233.7	176.9	123.5	93.3	78.4	74.4	73.0
20°	321.6	317.2	297.8	266.7	205.9	127.5	81.5	68.2	63.9	62.7	62.3
22.5°	334.7	327.9	304.2	259.7	163.1	85.6	64.5	60.3	58.9	58.2	58.0
25°	346.2	336.6	309.8	238.0	115.4	64.7	58.1	56.7	54.9	53.6	53.7
27.5°	356.9	345.4	313.2	202.4	77.0	55.3	53.8	51.9	48.5	46.6	46.6
30°	369.8	357.0	315.7	155.8	56.7	48.8	47.6	44.7	40.2	37.7	37.7
32.5°	389.2	374.6	314.1	109.3	46.9	42.9	40.1	36.1	31.2	28.8	28.7
35°	418.9	401.8	302.7	71.7	41.4	37.3	32.8	27.9	23.6	21.6	21.5
37.5°	459.0	438.2	277.1	51.3	37.1	32.1	26.7	21.3	18.1	16.8	16.7
40°	510.9	480.6	240.4	41.5	33.1	27.1	20.6	16.5	14.3	13.3	13.4
42.5°	573.3	525.9	196.5	35.8	29.2	22.3	16.1	13.0	11.6	10.9	10.7
45°	642.6	570.7	150.5	31.9	25.3	18.0	12.6	10.3	9.2	8.8	8.8
47.5°	718.7	614.2	110.1	28.5	21.1	13.9	10.1	8.4	7.5	7.2	7.1
50°	787.9	644.5	79.4	24.9	17.3	11.0	8.2	7.0	6.4	6.0	6.0
52.5°	845.6	654.0	58.5	21.0	14.0	8.8	6.8	6.0	5.4	5.1	5.1
55°	896.3	650.1	43.4	17.3	11.3	7.2	5.8	5.1	4.6	4.3	4.3
57.5°	945.0	637.4	32.4	14.1	9.1	5.8	4.9	4.3	3.8	3.6	3.6
60°	984.7	616.4	24.1	11.4	7.3	4.7	4.1	3.5	3.1	2.8	2.8
62.5°	1016.9	593.2	17.7	9.4	5.8	3.7	3.2	2.9	2.3	2.0	2.0
65°	1017.1	554.7	13.3	7.8	4.5	2.9	2.4	2.3	1.5	1.2	1.1
67.5°	943.6	478.2	10.2	6.7	3.5	2.2	1.8	1.9	0.8	0.5	0.4
68°	916.8	458.8	9.6	6.6	3.3	2.1	1.7	1.9	0.7	0.4	0.3
70°	773.0	365.0	7.7	6.4	2.9	1.6	1.4	1.9	0.6	0.3	0.2
72.5°	494.4	211.8	5.7	5.1	2.2	1.2	0.9	1.7	0.6	0.2	0.1
75°	210.4	65.7	3.9	3.6	1.3	0.9	0.6	1.1	0.4	0.1	0.0
77.5°	44.3	14.8	2.3	2.2	0.9	0.6	0.4	0.3	0.1	0.0	0.0
80°	11.4	4.3	1.2	1.1	0.5	0.3	0.2	0.0	0.0	0.0	0.0
82.5°	3.6	1.7	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.8	1.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.3	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)