

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: P348816

Luminaire Tested: **ARCH-N-PA1-30-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348816  
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-PA1-30-730-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2807 lumens  
Efficiency: N/A  
Efficacy: 90.5 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): 31  
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

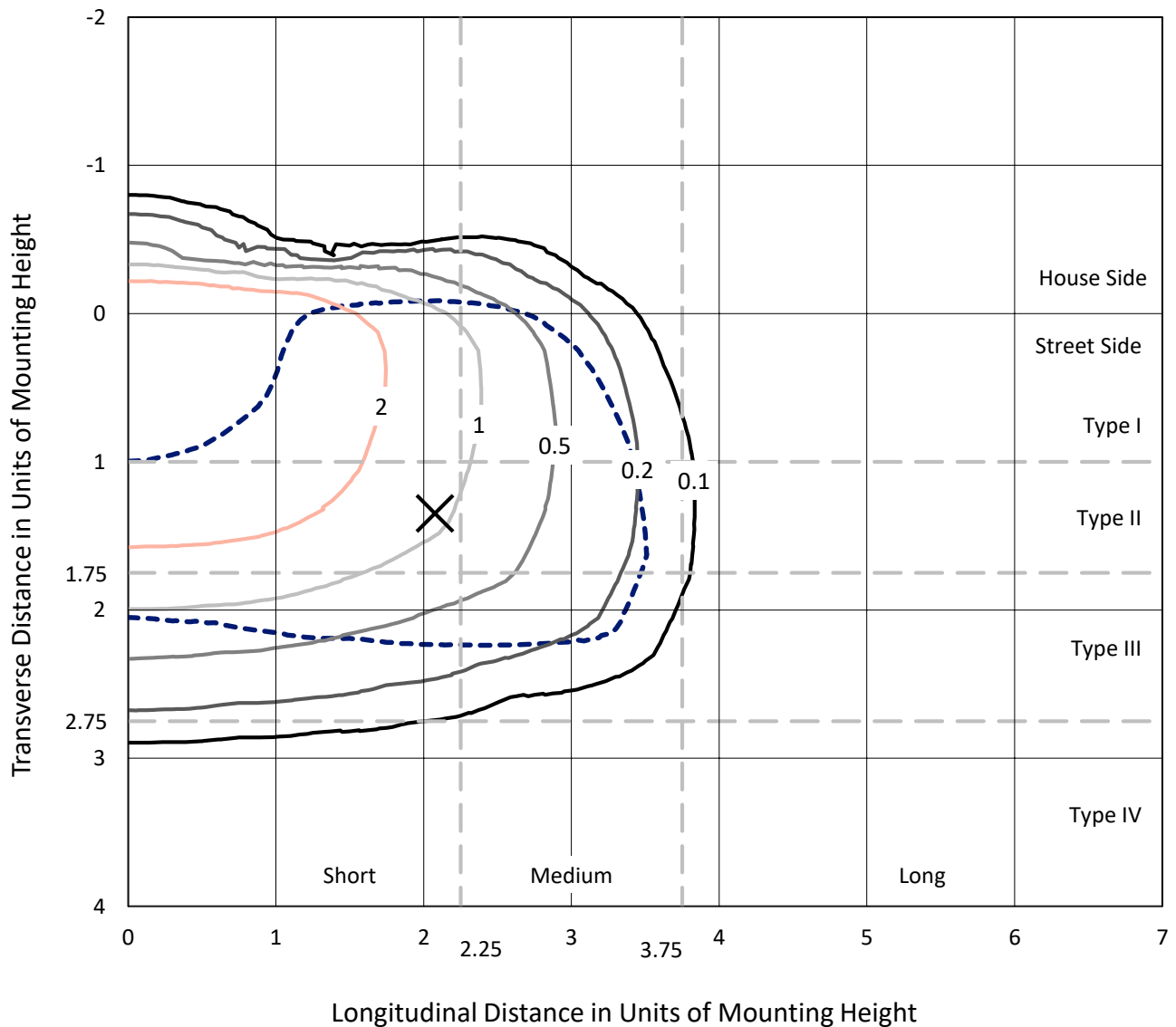


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

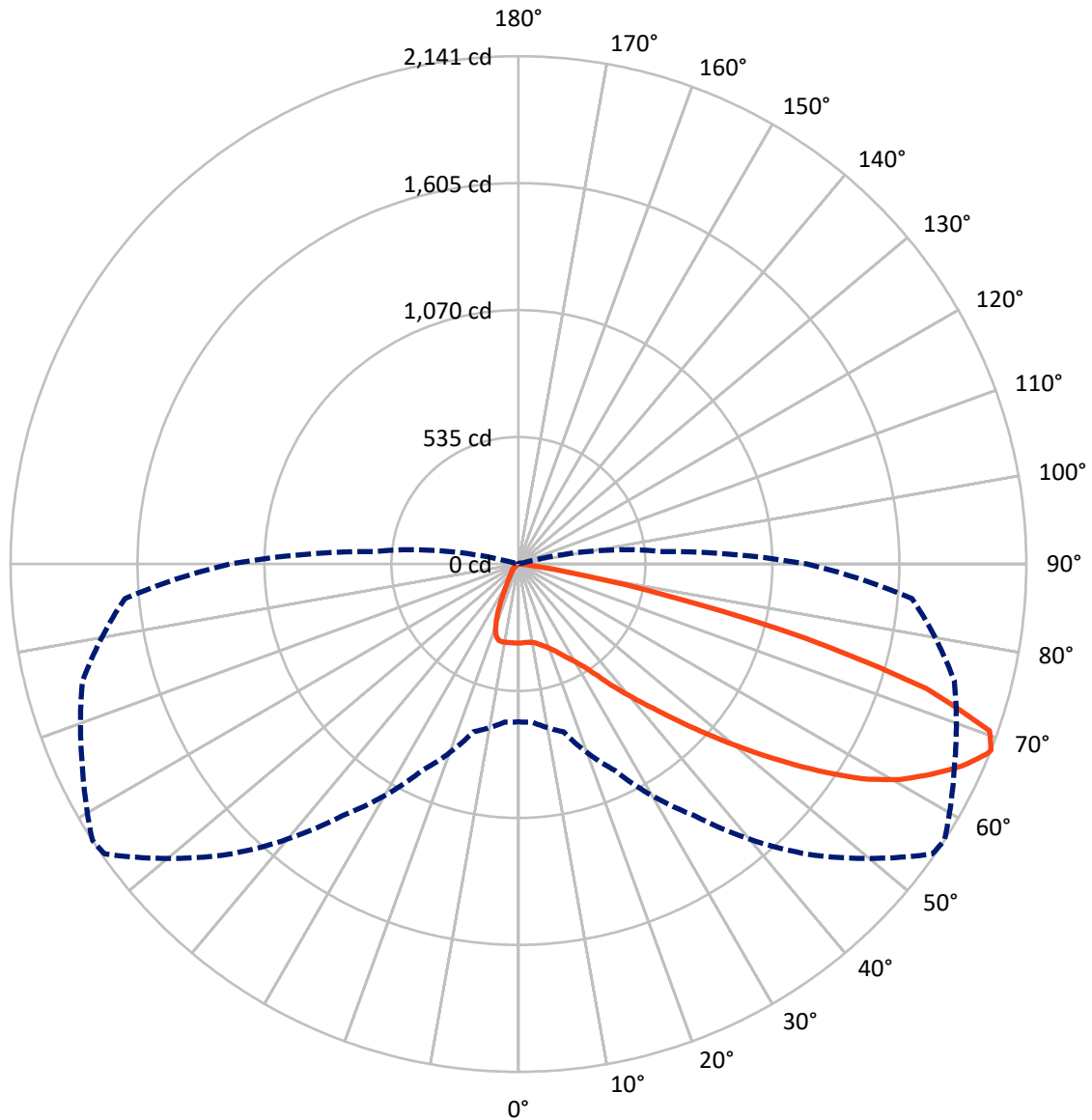


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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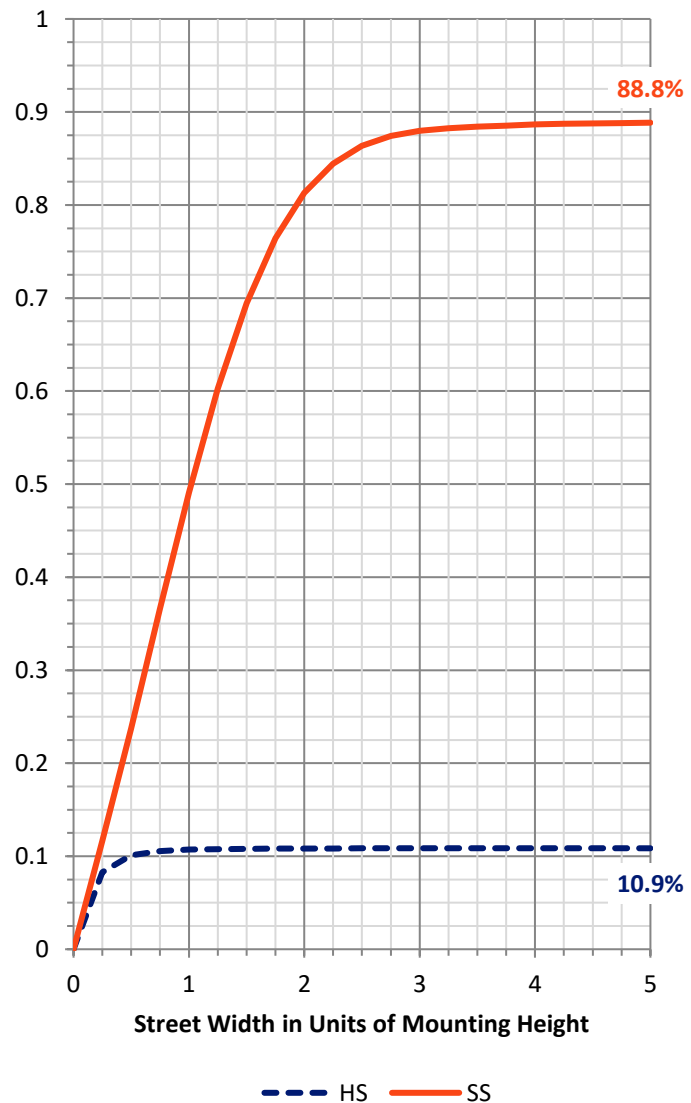
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	307.8	0.0	307.8
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	2499.2	0.0	2499.2
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	2807.0	0.0	2807.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	86.5	3.1
20°-30°	149.2	5.3
30°-40°	257.5	9.2
40°-50°	440.5	15.7
50°-60°	704.8	25.1
60°-70°	814.3	29.0
70°-80°	311.2	11.1
80°-90°	11.7	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°	2807.0	100.0
0°-180°	2807.0	100.0



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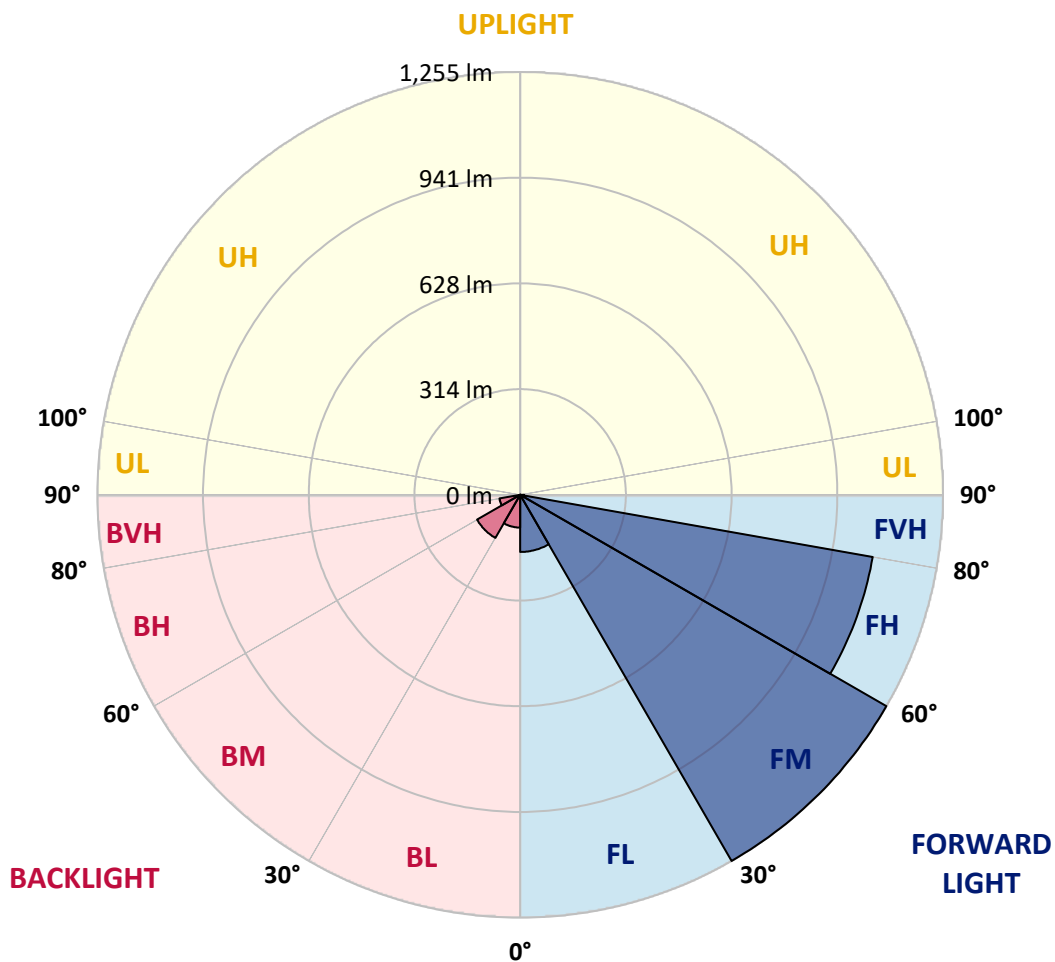
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.7	6.0			
FM (30°-60°)	1255.3	44.7			
FH (60°-80°)	1062.8	37.9			G1/1800
FVH (80°-90°)	11.5	0.4			G1/100
BL (0°-30°)	97.3	3.5	B0/110		
BM (30°-60°)	147.6	5.3	B0/220		
BH (60°-80°)	62.7	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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5
2.5°	325.7	327.2	328.2	328.9	329.7	331.4	332.0	332.7	333.1	333.1	334.1
5°	312.8	314.4	316.7	318.5	322.3	327.0	330.5	331.8	334.2	336.3	337.5
7.5°	300.9	302.8	305.4	309.8	316.2	323.9	331.0	332.9	337.5	342.0	344.3
10°	293.2	294.7	298.1	304.3	312.7	323.5	333.5	335.8	343.8	351.3	355.6
12.5°	290.5	291.9	295.5	302.5	312.8	325.4	339.4	342.7	354.4	365.4	371.4
15°	294.4	294.7	298.5	305.1	315.4	330.4	349.1	353.1	367.8	382.1	389.6
17.5°	309.3	308.1	310.1	313.0	321.1	336.9	359.3	365.3	384.9	401.8	408.8
20°	346.4	346.4	341.9	333.9	334.1	347.0	373.1	379.9	403.9	423.4	429.8
22.5°	410.0	408.8	399.8	380.3	362.3	364.3	390.0	398.7	426.7	447.6	449.7
25°	486.4	485.0	471.1	443.6	412.5	392.5	412.8	422.9	453.9	472.4	468.0
27.5°	567.4	566.2	552.4	518.3	474.1	437.3	440.0	449.5	481.7	499.9	485.9
30°	645.9	646.3	632.6	597.5	547.5	494.5	474.5	480.1	508.6	527.1	507.2
32.5°	720.4	721.0	709.2	670.0	623.3	561.0	522.3	520.8	539.9	558.1	535.3
35°	786.9	788.3	780.2	749.8	700.3	635.1	584.3	580.8	584.4	605.0	578.4
37.5°	851.1	851.8	845.7	820.1	778.7	716.5	662.6	657.7	650.0	665.8	635.4
40°	921.3	919.3	912.2	889.0	853.4	806.3	746.7	738.2	724.8	738.9	710.2
42.5°	986.6	984.3	985.5	959.2	929.2	898.7	844.8	830.2	822.4	838.6	802.1
45°	1068.2	1067.0	1071.0	1048.2	1023.9	1001.7	957.2	941.3	937.9	956.8	913.2
47.5°	1148.8	1151.7	1164.0	1154.3	1144.5	1125.0	1076.3	1069.1	1071.2	1094.2	1030.4
50°	1215.9	1219.4	1253.2	1264.4	1278.6	1267.2	1218.3	1213.9	1222.3	1243.0	1156.5
52.5°	1264.5	1271.5	1313.6	1365.0	1416.7	1424.4	1375.7	1371.7	1383.0	1386.2	1253.9
55°	1298.2	1304.5	1352.1	1446.1	1551.5	1584.6	1554.4	1539.0	1536.9	1505.4	1356.3
57.5°	1304.2	1303.5	1372.0	1498.5	1657.1	1742.7	1723.6	1708.5	1664.9	1615.6	1473.8
60°	1270.5	1274.3	1353.8	1516.7	1723.5	1862.3	1863.8	1844.1	1776.3	1722.7	1587.7
62.5°	1166.7	1182.3	1262.6	1469.0	1722.7	1910.5	1966.5	1951.5	1870.4	1810.4	1703.2
65°	998.4	1004.0	1080.5	1305.8	1606.3	1890.3	2059.0	2053.4	1955.2	1895.6	1762.5
67.5°	729.1	717.0	797.4	1028.2	1359.9	1772.7	2125.4	2132.4	2020.7	1913.1	1699.3
68°	665.4	668.9	731.6	959.6	1295.4	1731.2	2129.8	2140.5	2027.2	1901.7	1664.8
70°	396.6	403.5	459.4	660.7	985.5	1496.1	2082.5	2107.1	1988.4	1784.0	1440.0
72.5°	101.3	109.5	162.3	295.7	562.9	1054.1	1758.0	1799.5	1726.4	1447.3	972.1
75°	41.7	43.8	58.0	97.4	209.7	474.9	1158.7	1247.6	1196.8	866.4	439.3
77.5°	28.8	30.3	37.3	54.0	90.8	161.0	568.1	632.3	569.7	295.7	95.8
80°	20.7	21.9	26.7	36.0	52.2	57.5	185.2	214.1	170.0	64.9	23.8
82.5°	12.3	13.3	19.9	25.6	31.7	27.5	46.1	52.3	49.2	32.3	10.6
85°	6.1	7.2	13.4	18.3	17.1	11.5	14.1	15.7	19.4	19.6	5.7
87.5°	0.4	0.8	7.8	11.0	4.8	2.7	4.1	5.0	6.9	9.7	2.4
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°	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5	333.5
2.5°	334.5	334.6	333.7	333.3	333.5	332.0	331.3	331.6	331.6	332.0	331.3
5°	337.8	337.8	336.2	334.1	332.9	329.8	327.8	327.3	326.9	326.6	326.1
7.5°	345.0	344.2	341.4	336.7	332.7	326.1	321.1	318.4	317.1	316.6	316.2
10°	356.5	355.0	350.4	341.8	332.6	320.8	309.8	302.0	295.5	292.8	291.2
12.5°	372.0	369.9	362.1	347.7	331.7	309.9	286.0	263.1	241.7	232.9	228.6
15°	390.0	386.9	374.6	352.8	326.2	285.4	233.5	193.3	163.7	152.5	147.7
17.5°	408.1	404.2	385.4	356.0	309.9	234.5	163.8	123.7	103.9	98.6	96.8
20°	426.5	420.6	394.9	353.6	273.0	169.1	108.0	90.4	84.7	83.1	82.6
22.5°	443.8	434.8	403.4	344.3	216.2	113.5	85.5	79.9	78.0	77.1	76.8
25°	459.0	446.4	410.8	315.6	153.0	85.7	77.0	75.1	72.7	71.0	71.1
27.5°	473.2	457.9	415.3	268.4	102.1	73.3	71.3	68.8	64.4	61.9	61.9
30°	490.3	473.3	418.6	206.5	75.1	64.8	63.2	59.3	53.4	50.0	50.0
32.5°	516.0	496.7	416.5	144.9	62.2	56.9	53.2	47.9	41.4	38.2	38.1
35°	555.5	532.8	401.4	95.0	54.9	49.5	43.5	37.0	31.3	28.7	28.5
37.5°	608.6	581.1	367.4	68.0	49.2	42.6	35.4	28.3	24.0	22.3	22.2
40°	677.4	637.2	318.8	55.1	43.9	36.0	27.3	21.9	19.0	17.7	17.8
42.5°	760.1	697.4	260.5	47.5	38.8	29.6	21.4	17.3	15.4	14.5	14.2
45°	852.0	756.7	199.5	42.3	33.6	23.9	16.7	13.7	12.2	11.7	11.7
47.5°	953.0	814.4	146.0	37.8	28.0	18.4	13.4	11.1	10.0	9.6	9.4
50°	1044.7	854.5	105.3	33.0	23.0	14.6	10.9	9.3	8.5	8.0	8.0
52.5°	1121.2	867.1	77.5	27.9	18.6	11.7	9.0	8.0	7.2	6.8	6.8
55°	1188.4	861.9	57.6	23.0	15.0	9.6	7.7	6.8	6.1	5.7	5.7
57.5°	1253.0	845.2	43.0	18.7	12.1	7.7	6.5	5.7	5.0	4.8	4.8
60°	1305.6	817.3	32.0	15.1	9.7	6.2	5.4	4.6	4.1	3.7	3.7
62.5°	1348.4	786.5	23.5	12.5	7.7	4.9	4.2	3.8	3.1	2.7	2.7
65°	1348.6	735.4	17.7	10.4	6.0	3.8	3.2	3.1	2.0	1.6	1.5
67.5°	1251.1	634.0	13.5	8.9	4.6	2.9	2.4	2.5	1.1	0.7	0.5
68°	1215.7	608.3	12.7	8.8	4.4	2.8	2.3	2.5	0.9	0.5	0.4
70°	1024.9	483.9	10.2	8.5	3.8	2.1	1.9	2.5	0.8	0.4	0.3
72.5°	655.5	280.9	7.6	6.8	2.9	1.6	1.2	2.3	0.8	0.3	0.1
75°	279.0	87.1	5.2	4.8	1.7	1.2	0.8	1.5	0.5	0.1	0.0
77.5°	58.8	19.6	3.1	2.9	1.2	0.8	0.5	0.4	0.1	0.0	0.0
80°	15.1	5.7	1.6	1.5	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	4.8	2.3	0.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.4	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)