

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: P348823

Luminaire Tested: **ARCH-N-PA1-30-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348823  
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-PA1-30-740-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 560mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3082 lumens  
Efficiency: N/A  
Efficacy: 99.4 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): 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

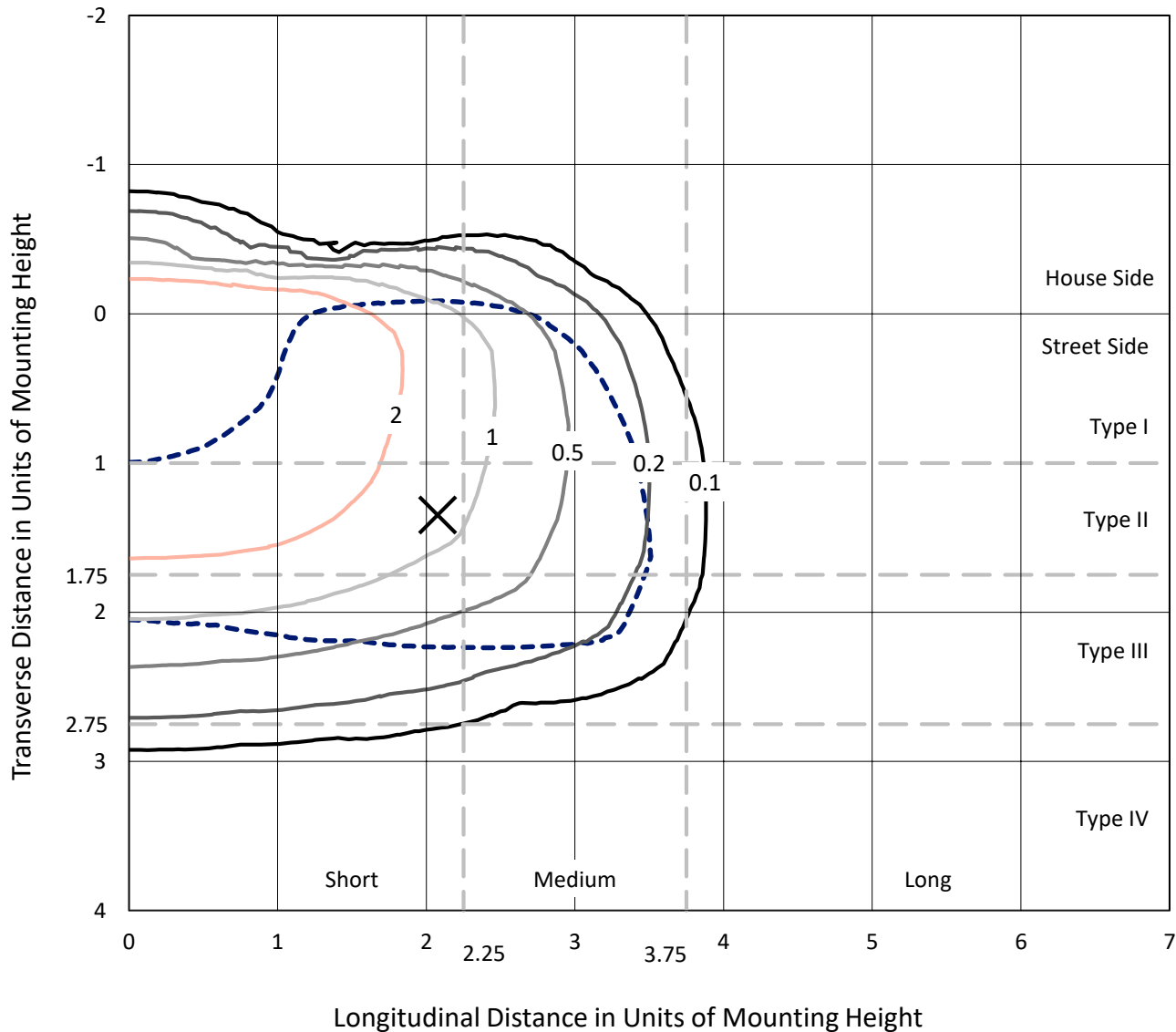


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

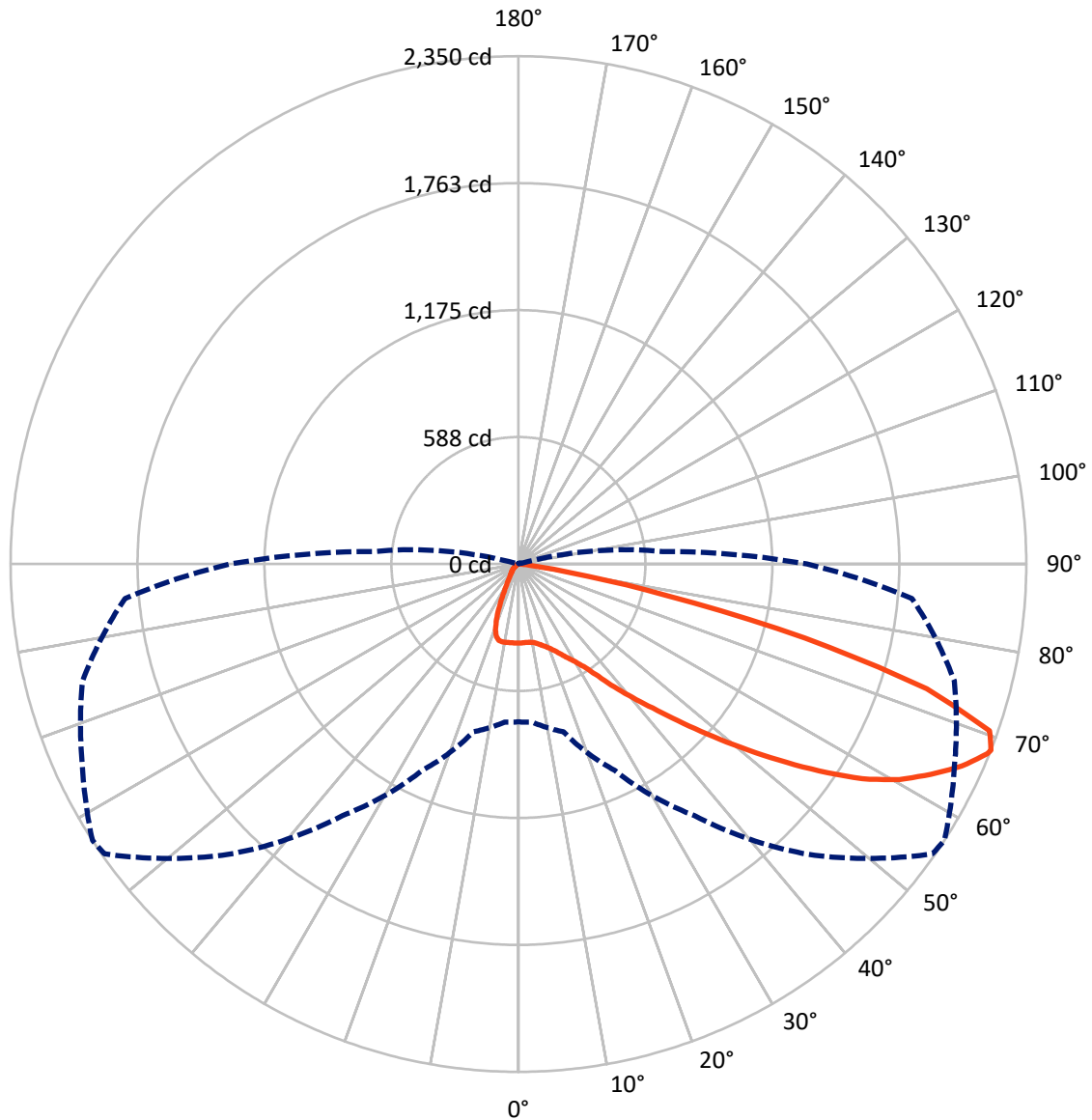


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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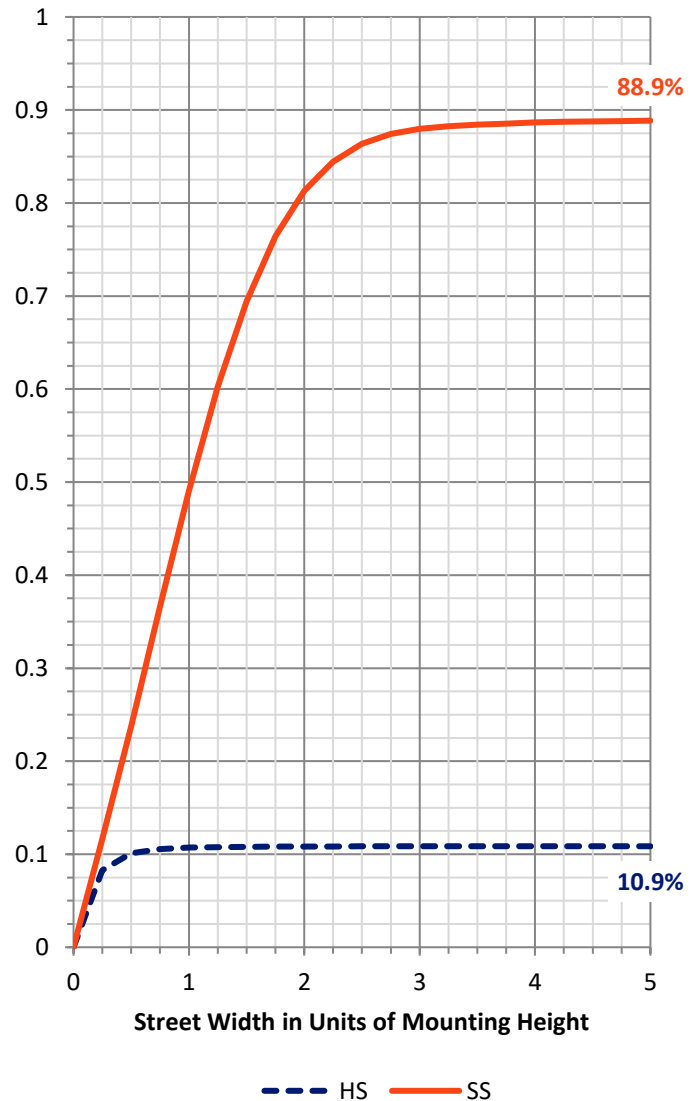
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	338.0	0.0	338.0
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	2744.0	0.0	2744.0
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	3082.0	0.0	3082.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	1.1
10°-20°	95.0	3.1
20°-30°	163.8	5.3
30°-40°	282.8	9.2
40°-50°	483.7	15.7
50°-60°	773.9	25.1
60°-70°	894.1	29.0
70°-80°	341.7	11.1
80°-90°	12.8	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°	3082.0	100.0
0°-180°	3082.0	100.0



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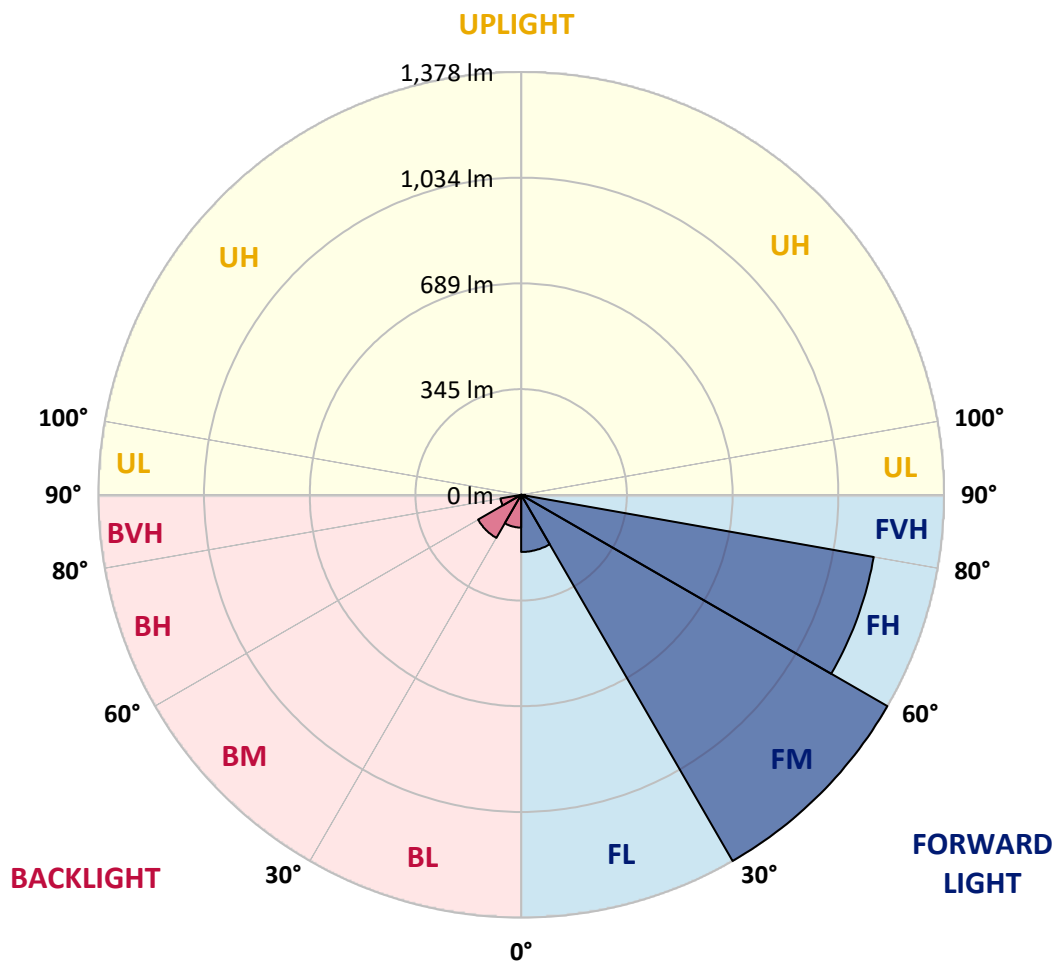
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.3	6.0			
FM	(30°-60°)	1378.2	44.7			
FH	(60°-80°)	1166.9	37.9			G1/1800
FVH	(80°-90°)	12.6	0.4			G1/100
BL	(0°-30°)	106.8	3.5	B0/110		
BM	(30°-60°)	162.1	5.3	B0/220		
BH	(60°-80°)	68.8	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°	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2
2.5°	357.6	359.2	360.4	361.1	362.0	363.9	364.5	365.3	365.8	365.8	366.8
5°	343.5	345.2	347.7	349.8	353.8	359.1	362.9	364.3	367.0	369.3	370.6
7.5°	330.4	332.4	335.3	340.1	347.1	355.6	363.5	365.5	370.6	375.5	378.0
10°	321.9	323.5	327.3	334.2	343.3	355.1	366.2	368.7	377.4	385.8	390.4
12.5°	319.0	320.5	324.4	332.1	343.5	357.3	372.6	376.3	389.1	401.2	407.8
15°	323.2	323.5	327.7	335.0	346.3	362.7	383.3	387.6	403.8	419.6	427.7
17.5°	339.6	338.2	340.4	343.6	352.5	369.9	394.5	401.1	422.6	441.1	448.9
20°	380.4	380.4	375.4	366.7	366.8	380.9	409.7	417.1	443.5	464.9	471.9
22.5°	450.2	448.9	438.9	417.5	397.8	400.0	428.2	437.8	468.5	491.4	493.7
25°	534.1	532.5	517.2	487.0	452.9	430.9	453.2	464.3	498.4	518.7	513.8
27.5°	623.0	621.7	606.5	569.1	520.6	480.2	483.1	493.6	528.9	548.8	533.5
30°	709.1	709.6	694.6	656.1	601.1	543.0	521.0	527.1	558.4	578.7	556.8
32.5°	791.0	791.6	778.6	735.7	684.4	616.0	573.5	571.8	592.8	612.8	587.7
35°	864.0	865.5	856.6	823.2	768.9	697.3	641.5	637.7	641.7	664.2	635.1
37.5°	934.4	935.3	928.6	900.5	855.0	786.7	727.5	722.1	713.6	731.0	697.6
40°	1011.5	1009.3	1001.6	976.1	937.1	885.3	819.9	810.6	795.8	811.3	779.8
42.5°	1083.2	1080.7	1082.1	1053.2	1020.3	986.7	927.6	911.5	903.0	920.7	880.7
45°	1172.8	1171.5	1175.9	1150.8	1124.2	1099.8	1051.0	1033.5	1029.7	1050.6	1002.6
47.5°	1261.3	1264.5	1278.1	1267.4	1256.6	1235.2	1181.7	1173.9	1176.2	1201.4	1131.3
50°	1335.0	1338.8	1376.0	1388.2	1403.8	1391.3	1337.7	1332.9	1342.0	1364.8	1269.8
52.5°	1388.4	1396.1	1442.3	1498.7	1555.5	1564.0	1510.5	1506.1	1518.5	1522.0	1376.7
55°	1425.4	1432.2	1484.6	1587.7	1703.5	1739.9	1706.7	1689.8	1687.4	1652.9	1489.2
57.5°	1432.0	1431.2	1506.4	1645.3	1819.5	1913.5	1892.5	1875.9	1828.1	1773.8	1618.2
60°	1394.9	1399.2	1486.5	1665.3	1892.3	2044.8	2046.4	2024.8	1950.3	1891.4	1743.2
62.5°	1281.0	1298.2	1386.3	1613.0	1891.4	2097.7	2159.2	2142.7	2053.6	1987.8	1870.0
65°	1096.2	1102.3	1186.4	1433.7	1763.6	2075.5	2260.7	2254.6	2146.8	2081.3	1935.2
67.5°	800.5	787.2	875.6	1129.0	1493.2	1946.4	2333.6	2341.3	2218.6	2100.6	1865.8
68°	730.6	734.5	803.3	1053.6	1422.3	1900.8	2338.4	2350.2	2225.8	2088.0	1827.9
70°	435.4	443.0	504.4	725.5	1082.1	1642.7	2286.5	2313.5	2183.2	1958.8	1581.0
72.5°	111.2	120.2	178.2	324.7	618.0	1157.4	1930.2	1975.8	1895.5	1589.1	1067.3
75°	45.8	48.1	63.7	107.0	230.3	521.4	1272.2	1369.9	1314.1	951.3	482.4
77.5°	31.6	33.2	41.0	59.3	99.7	176.8	623.7	694.3	625.5	324.7	105.2
80°	22.7	24.0	29.3	39.5	57.3	63.1	203.3	235.1	186.7	71.3	26.1
82.5°	13.6	14.6	21.9	28.1	34.8	30.2	50.6	57.4	54.1	35.4	11.7
85°	6.7	7.9	14.7	20.1	18.8	12.7	15.4	17.2	21.3	21.6	6.3
87.5°	0.4	0.9	8.6	12.1	5.2	2.9	4.5	5.5	7.6	10.6	2.6
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°	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2	366.2
2.5°	367.2	367.4	366.4	365.9	366.2	364.5	363.7	364.0	364.0	364.5	363.7
5°	370.9	370.9	369.1	366.8	365.5	362.1	360.0	359.4	358.9	358.6	358.1
7.5°	378.8	377.9	374.8	369.7	365.3	358.1	352.5	349.6	348.2	347.6	347.1
10°	391.4	389.8	384.7	375.3	365.2	352.2	340.1	331.5	324.4	321.5	319.7
12.5°	408.5	406.2	397.6	381.8	364.2	340.3	314.1	288.8	265.4	255.8	250.9
15°	428.2	424.8	411.3	387.4	358.2	313.3	256.3	212.2	179.7	167.4	162.2
17.5°	448.1	443.8	423.2	390.9	340.3	257.5	179.8	135.8	114.1	108.3	106.2
20°	468.2	461.8	433.6	388.2	299.8	185.7	118.6	99.2	93.0	91.2	90.6
22.5°	487.3	477.4	442.9	378.0	237.4	124.6	93.9	87.7	85.7	84.7	84.4
25°	503.9	490.1	451.0	346.5	168.0	94.1	84.5	82.5	79.9	78.0	78.1
27.5°	519.5	502.8	456.0	294.7	112.1	80.4	78.3	75.5	70.7	67.9	67.9
30°	538.3	519.7	459.6	226.8	82.5	71.1	69.4	65.1	58.6	54.9	54.9
32.5°	566.6	545.3	457.3	159.1	68.3	62.5	58.4	52.6	45.5	42.0	41.8
35°	609.9	585.0	440.7	104.3	60.3	54.4	47.8	40.7	34.4	31.5	31.3
37.5°	668.2	638.0	403.4	74.6	54.1	46.8	38.9	31.0	26.4	24.5	24.3
40°	743.8	699.7	350.0	60.5	48.2	39.5	30.0	24.0	20.8	19.4	19.5
42.5°	834.6	765.7	286.1	52.2	42.6	32.5	23.5	18.9	16.9	15.9	15.6
45°	935.4	830.8	219.0	46.5	36.9	26.2	18.4	15.0	13.4	12.8	12.8
47.5°	1046.4	894.2	160.3	41.5	30.7	20.3	14.7	12.2	10.9	10.5	10.3
50°	1147.1	938.2	115.6	36.3	25.2	16.0	11.9	10.2	9.3	8.7	8.7
52.5°	1231.0	952.1	85.1	30.6	20.4	12.8	9.9	8.7	7.9	7.4	7.4
55°	1304.9	946.4	63.2	25.2	16.5	10.5	8.5	7.4	6.7	6.3	6.3
57.5°	1375.7	928.0	47.2	20.5	13.3	8.5	7.1	6.3	5.5	5.2	5.2
60°	1433.6	897.4	35.1	16.6	10.6	6.8	6.0	5.1	4.5	4.1	4.1
62.5°	1480.5	863.6	25.8	13.7	8.5	5.4	4.7	4.2	3.4	2.9	2.9
65°	1480.8	807.5	19.4	11.4	6.6	4.2	3.5	3.4	2.2	1.7	1.6
67.5°	1373.7	696.2	14.9	9.8	5.1	3.2	2.6	2.8	1.2	0.7	0.6
68°	1334.8	667.9	14.0	9.6	4.8	3.1	2.5	2.8	1.0	0.6	0.4
70°	1125.3	531.3	11.2	9.3	4.2	2.3	2.0	2.8	0.9	0.4	0.3
72.5°	719.8	308.4	8.3	7.4	3.2	1.7	1.3	2.5	0.9	0.3	0.1
75°	306.3	95.6	5.7	5.2	1.9	1.3	0.9	1.6	0.6	0.1	0.0
77.5°	64.6	21.6	3.4	3.2	1.3	0.9	0.6	0.4	0.1	0.0	0.0
80°	16.6	6.3	1.7	1.6	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	5.2	2.5	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)