

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: P348854

Luminaire Tested: **ARCH-N-PA1-60-830-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348854  
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-PA1-60-830-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4262 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62  
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

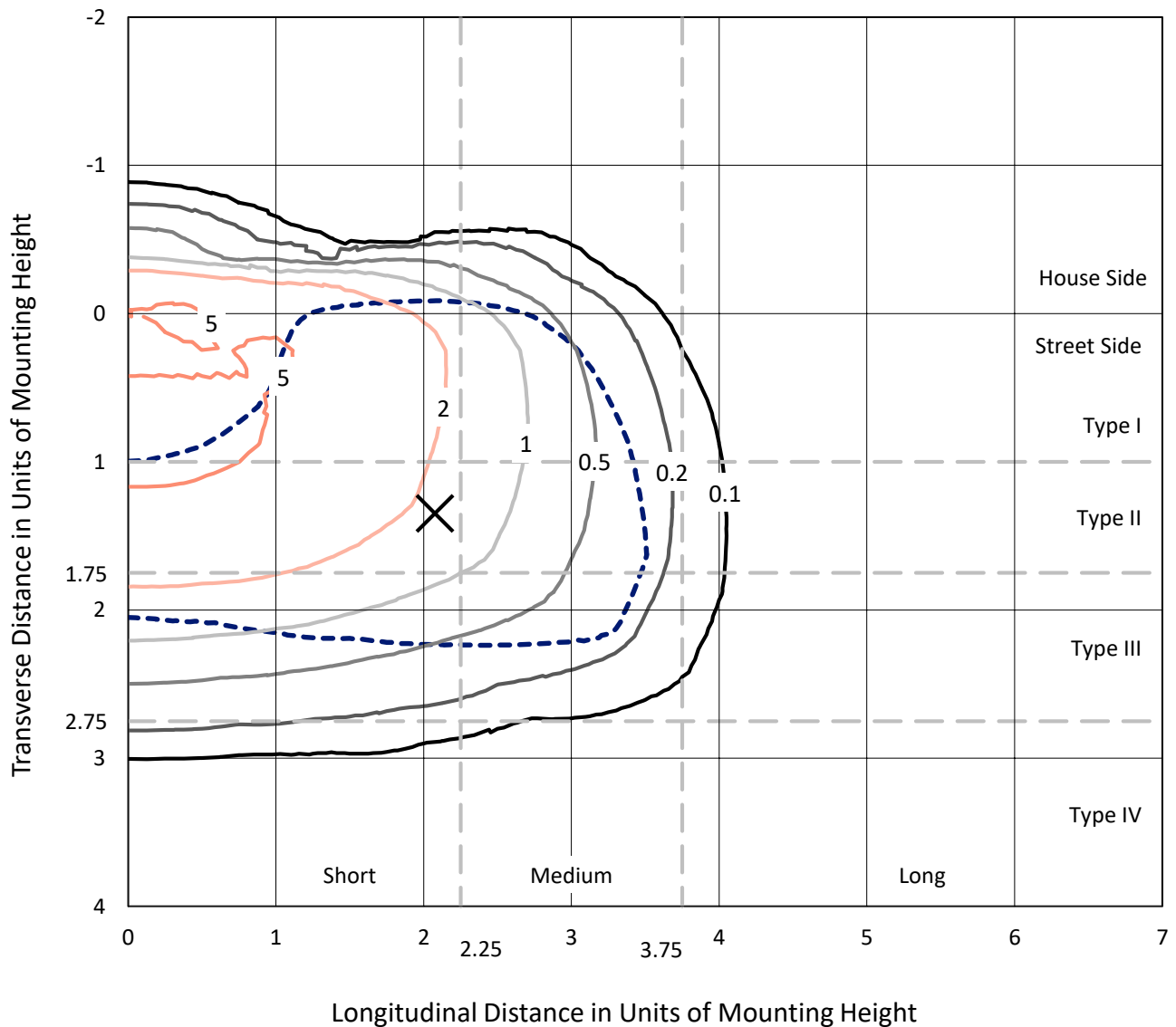


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

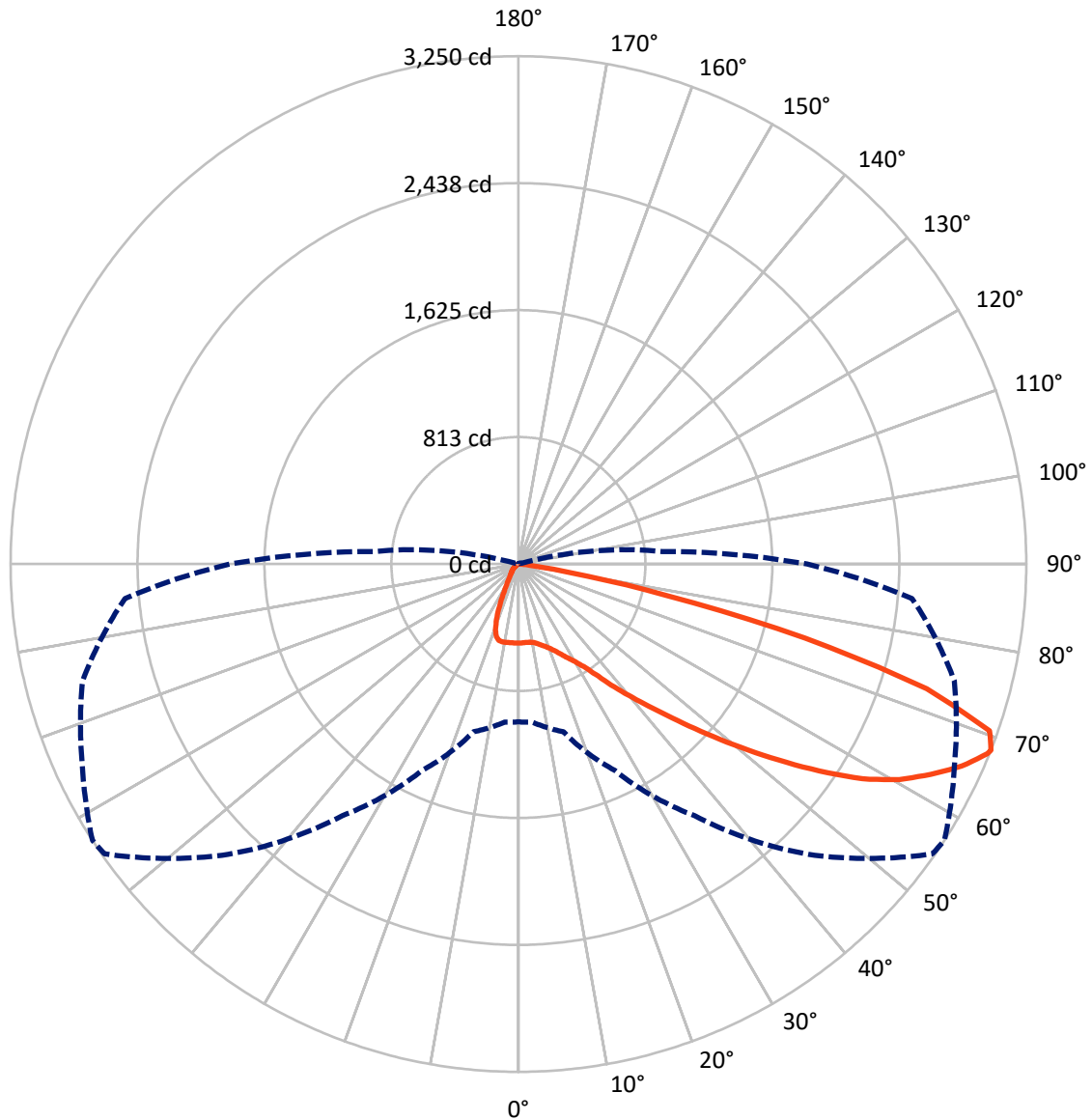


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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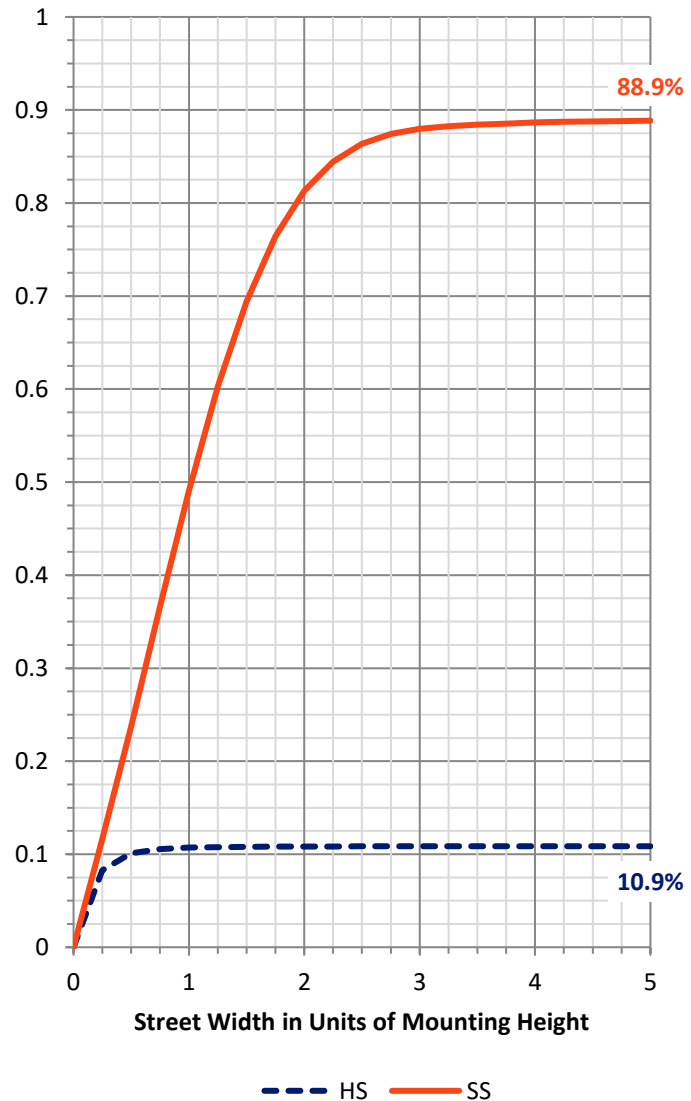
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	467.3	0.0	467.3
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	3794.6	0.0	3794.6
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4262.0	0.0	4262.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	131.3	3.1
20°-30°	226.6	5.3
30°-40°	391.0	9.2
40°-50°	668.9	15.7
50°-60°	1070.2	25.1
60°-70°	1236.4	29.0
70°-80°	472.5	11.1
80°-90°	17.7	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°	4262.0	100.0
0°-180°	4262.0	100.0



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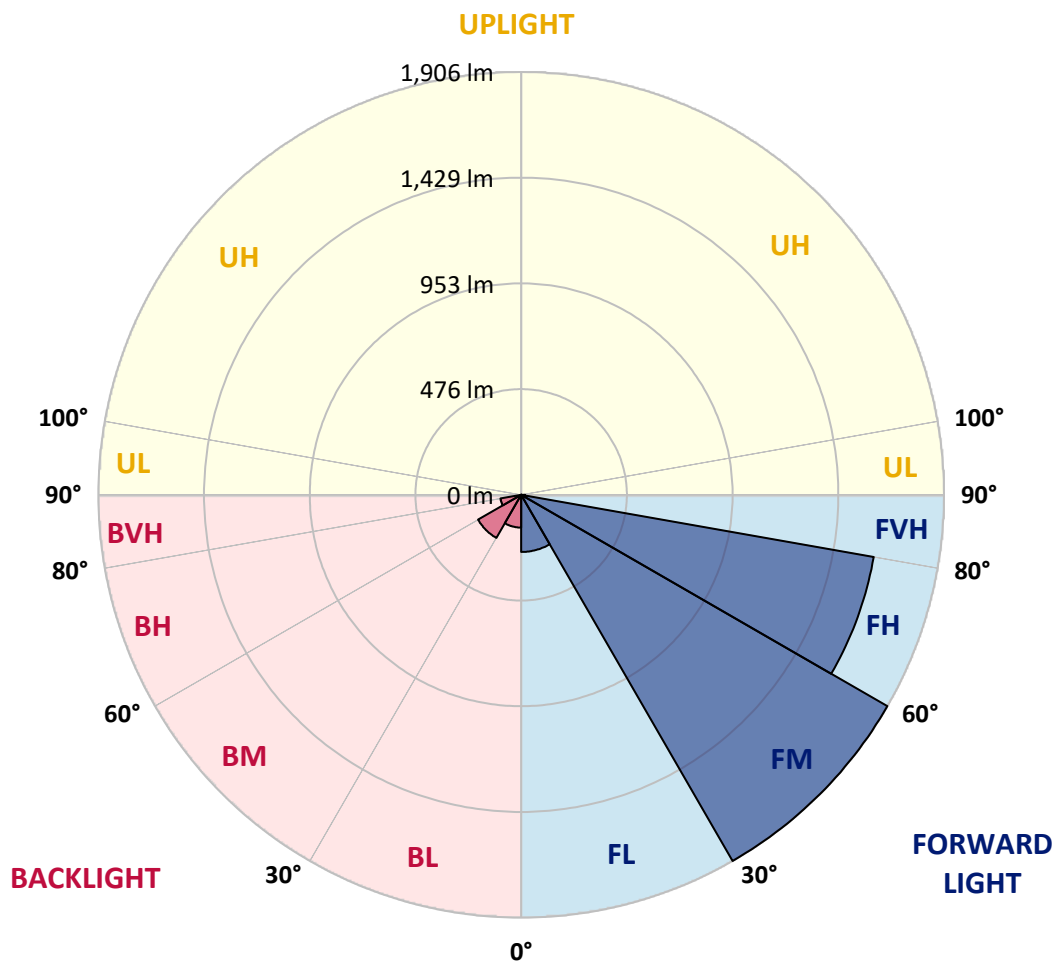
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.6	6.0			
FM	(30°-60°)	1905.9	44.7			
FH	(60°-80°)	1613.7	37.9			G1/1800
FVH	(80°-90°)	17.4	0.4			G1/100
BL	(0°-30°)	147.7	3.5	B1/500		
BM	(30°-60°)	224.2	5.3	B1/1000		
BH	(60°-80°)	95.2	2.2	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	494.5	496.8	498.4	499.4	500.6	503.2	504.0	505.2	505.8	505.8	507.2
5°	475.0	477.4	480.8	483.7	489.3	496.6	501.8	503.8	507.4	510.7	512.5
7.5°	456.9	459.7	463.7	470.4	480.0	491.7	502.6	505.4	512.5	519.3	522.8
10°	445.2	447.4	452.6	462.1	474.8	491.1	506.4	509.9	522.0	533.4	539.9
12.5°	441.1	443.2	448.6	459.3	475.0	494.1	515.3	520.3	538.1	554.8	563.9
15°	447.0	447.4	453.2	463.3	478.8	501.6	530.0	536.1	558.4	580.2	591.5
17.5°	469.6	467.7	470.8	475.2	487.5	511.5	545.5	554.6	584.4	610.0	620.7
20°	526.0	526.0	519.1	507.0	507.2	526.8	566.5	576.8	613.2	642.9	652.5
22.5°	622.5	620.7	607.0	577.4	550.2	553.2	592.1	605.4	647.9	679.5	682.8
25°	738.6	736.4	715.2	673.5	626.3	595.9	626.7	642.1	689.2	717.2	710.6
27.5°	861.5	859.7	838.8	787.0	719.9	664.0	668.1	682.6	731.3	759.0	737.8
30°	980.6	981.2	960.5	907.3	831.3	750.9	720.5	728.9	772.3	800.3	770.0
32.5°	1093.9	1094.7	1076.8	1017.3	946.4	851.9	793.0	790.8	819.8	847.4	812.8
35°	1194.9	1196.9	1184.6	1138.4	1063.3	964.3	887.1	881.9	887.3	918.6	878.3
37.5°	1292.2	1293.4	1284.1	1245.2	1182.4	1087.8	1006.0	998.6	986.9	1010.9	964.7
40°	1398.8	1395.8	1385.1	1349.8	1295.8	1224.3	1133.8	1120.9	1100.5	1121.9	1078.4
42.5°	1498.0	1494.5	1496.3	1456.4	1410.9	1364.5	1282.7	1260.6	1248.7	1273.2	1217.8
45°	1621.9	1620.1	1626.1	1591.5	1554.6	1520.9	1453.4	1429.2	1424.0	1452.8	1386.5
47.5°	1744.2	1748.7	1767.4	1752.7	1737.8	1708.1	1634.2	1623.3	1626.5	1661.4	1564.5
50°	1846.2	1851.4	1902.8	1919.7	1941.3	1924.0	1849.8	1843.2	1855.9	1887.3	1755.9
52.5°	1920.0	1930.6	1994.5	2072.5	2151.1	2162.8	2088.8	2082.8	2099.9	2104.8	1903.8
55°	1971.1	1980.6	2053.0	2195.6	2355.7	2406.0	2360.1	2336.7	2333.5	2285.7	2059.4
57.5°	1980.2	1979.2	2083.2	2275.2	2516.1	2646.1	2617.0	2594.1	2528.0	2453.0	2237.8
60°	1929.0	1934.9	2055.6	2302.9	2616.8	2827.6	2829.8	2800.0	2697.0	2615.6	2410.7
62.5°	1771.4	1795.2	1917.1	2230.5	2615.6	2900.8	2985.8	2963.1	2839.9	2748.8	2586.0
65°	1515.9	1524.4	1640.6	1982.6	2438.9	2870.2	3126.3	3117.8	2968.7	2878.2	2676.1
67.5°	1107.0	1088.7	1210.8	1561.2	2064.8	2691.6	3227.1	3237.7	3068.1	2904.8	2580.2
68°	1010.3	1015.7	1110.8	1457.0	1966.9	2628.5	3233.7	3250.0	3077.9	2887.5	2527.8
70°	602.2	612.6	697.5	1003.2	1496.3	2271.6	3162.0	3199.2	3019.1	2708.7	2186.4
72.5°	153.8	166.3	246.5	449.0	854.7	1600.5	2669.2	2732.3	2621.3	2197.5	1476.0
75°	63.3	66.5	88.1	147.9	318.4	721.1	1759.3	1894.4	1817.2	1315.6	667.1
77.5°	43.7	45.9	56.6	82.0	137.8	244.5	862.5	960.1	865.0	449.0	145.5
80°	31.4	33.3	40.5	54.6	79.2	87.3	281.1	325.1	258.2	98.5	36.1
82.5°	18.7	20.2	30.2	38.9	48.2	41.7	69.9	79.4	74.8	49.0	16.1
85°	9.3	10.9	20.4	27.8	26.0	17.5	21.4	23.8	29.4	29.8	8.7
87.5°	0.6	1.2	11.9	16.7	7.3	4.0	6.2	7.7	10.5	14.7	3.6
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°	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
2.5°	507.8	508.1	506.6	506.0	506.4	504.0	503.0	503.4	503.4	504.0	503.0
5°	512.9	512.9	510.5	507.2	505.4	500.8	497.8	497.0	496.4	496.0	495.2
7.5°	523.8	522.6	518.3	511.3	505.2	495.2	487.5	483.5	481.4	480.6	480.0
10°	541.3	539.1	532.0	518.9	505.0	487.1	470.4	458.5	448.6	444.6	442.2
12.5°	564.9	561.7	549.8	528.0	503.6	470.6	434.3	399.4	367.0	353.7	347.0
15°	592.1	587.5	568.7	535.7	495.4	433.3	354.5	293.4	248.5	231.6	224.3
17.5°	619.7	613.7	585.2	540.5	470.6	356.1	248.7	187.8	157.8	149.7	146.9
20°	647.5	638.6	599.5	536.9	414.5	256.7	164.0	137.2	128.6	126.2	125.3
22.5°	673.9	660.2	612.4	522.8	328.3	172.3	129.8	121.3	118.5	117.1	116.7
25°	696.9	677.7	623.7	479.2	232.4	130.2	116.9	114.1	110.4	107.8	108.0
27.5°	718.4	695.3	630.6	407.5	155.0	111.2	108.2	104.4	97.7	93.9	93.9
30°	744.4	718.6	635.6	313.6	114.1	98.3	95.9	90.1	81.0	76.0	76.0
32.5°	783.5	754.1	632.4	220.1	94.5	86.5	80.8	72.8	62.9	58.0	57.8
35°	843.4	808.9	609.4	144.3	83.4	75.2	66.1	56.2	47.6	43.5	43.3
37.5°	924.0	882.3	557.8	103.2	74.8	64.7	53.8	42.9	36.5	33.9	33.7
40°	1028.6	967.5	484.1	83.6	66.7	54.6	41.5	33.3	28.8	26.8	27.0
42.5°	1154.1	1058.8	395.6	72.1	58.8	44.9	32.4	26.2	23.4	22.0	21.6
45°	1293.6	1148.9	302.9	64.3	51.0	36.3	25.4	20.8	18.5	17.7	17.7
47.5°	1447.0	1236.6	221.7	57.4	42.5	28.0	20.4	16.9	15.1	14.5	14.3
50°	1586.2	1297.4	159.8	50.2	34.9	22.2	16.5	14.1	12.9	12.1	12.1
52.5°	1702.3	1316.6	117.7	42.3	28.2	17.7	13.7	12.1	10.9	10.3	10.3
55°	1804.5	1308.7	87.5	34.9	22.8	14.5	11.7	10.3	9.3	8.7	8.7
57.5°	1902.4	1283.3	65.3	28.4	18.3	11.7	9.9	8.7	7.7	7.3	7.3
60°	1982.4	1241.0	48.6	23.0	14.7	9.5	8.3	7.1	6.2	5.6	5.6
62.5°	2047.3	1194.3	35.7	18.9	11.7	7.5	6.4	5.8	4.6	4.0	4.0
65°	2047.7	1116.7	26.8	15.7	9.1	5.8	4.8	4.6	3.0	2.4	2.2
67.5°	1899.6	962.7	20.6	13.5	7.1	4.4	3.6	3.8	1.6	1.0	0.8
68°	1845.8	923.6	19.3	13.3	6.7	4.2	3.4	3.8	1.4	0.8	0.6
70°	1556.2	734.8	15.5	12.9	5.8	3.2	2.8	3.8	1.2	0.6	0.4
72.5°	995.3	426.4	11.5	10.3	4.4	2.4	1.8	3.4	1.2	0.4	0.2
75°	423.6	132.2	7.9	7.3	2.6	1.8	1.2	2.2	0.8	0.2	0.0
77.5°	89.3	29.8	4.6	4.4	1.8	1.2	0.8	0.6	0.2	0.0	0.0
80°	23.0	8.7	2.4	2.2	1.0	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.3	3.4	1.4	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.6	0.2	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)