

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: P348819

Luminaire Tested: **ARCH-N-PA1-60-730-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348819  
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-PA1-60-730-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4884 lumens  
Efficiency: N/A  
Efficacy: 78.8 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 - G2

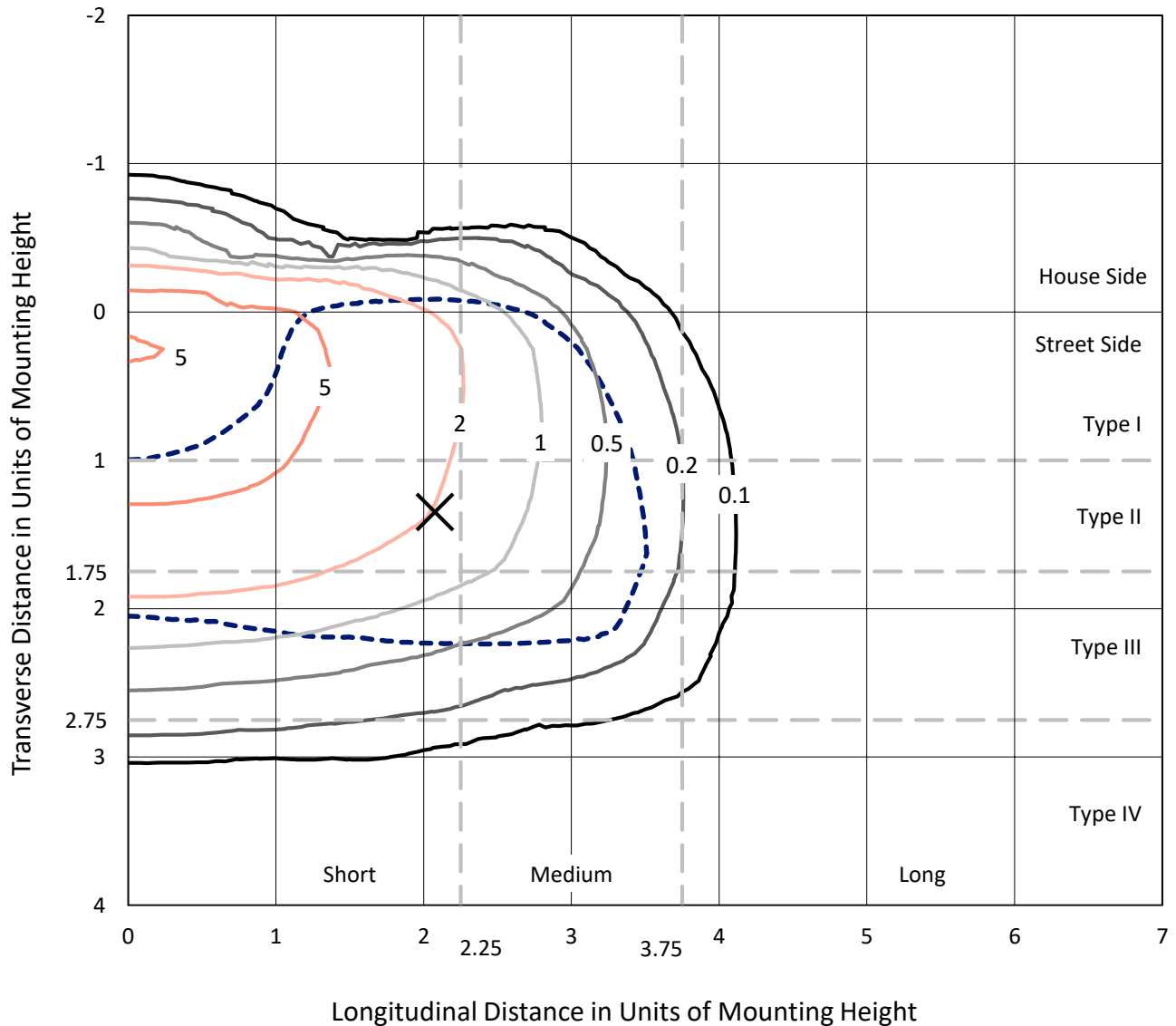
Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

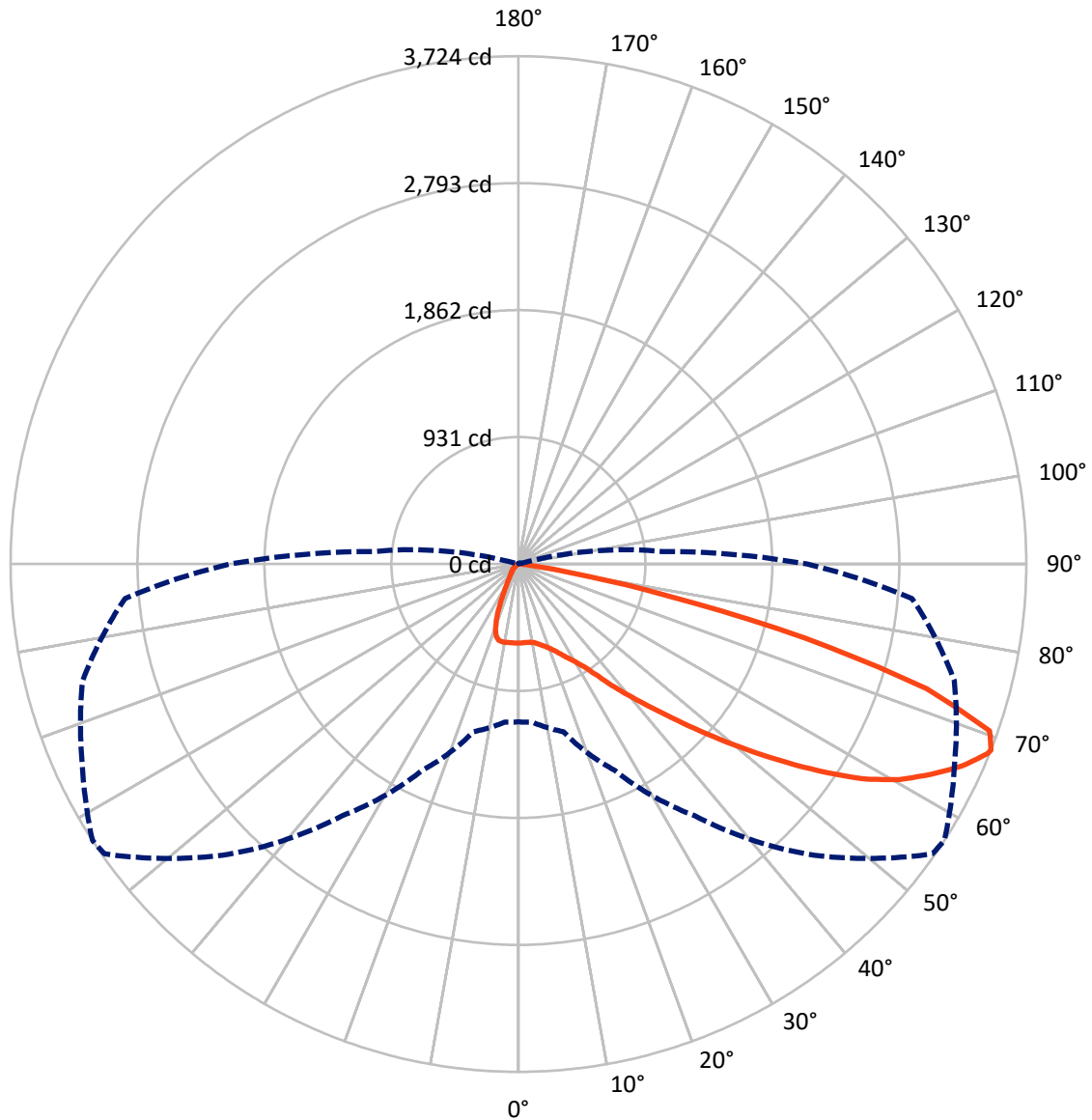


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P348819

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T3-HSS

### Luminous Intensity Polar Plot



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



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CATALOG NUMBER: ARCH-N-PA1-60-730-U-T3-HSS

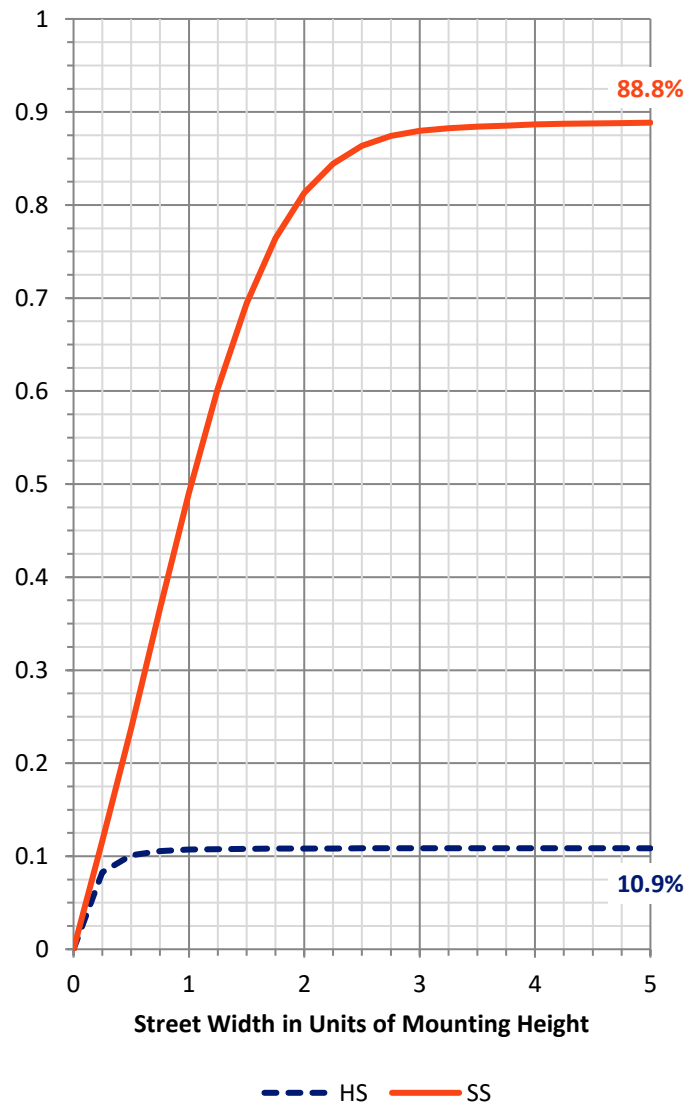
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	535.6	0.0	535.6
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	4348.4	0.0	4348.4
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	4884.0	0.0	4884.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	1.1
10°-20°	150.5	3.1
20°-30°	259.6	5.3
30°-40°	448.1	9.2
40°-50°	766.5	15.7
50°-60°	1226.3	25.1
60°-70°	1416.9	29.0
70°-80°	541.4	11.1
80°-90°	20.3	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°	4884.0	100.0
0°-180°	4884.0	100.0



REPORT NUMBER: P348819

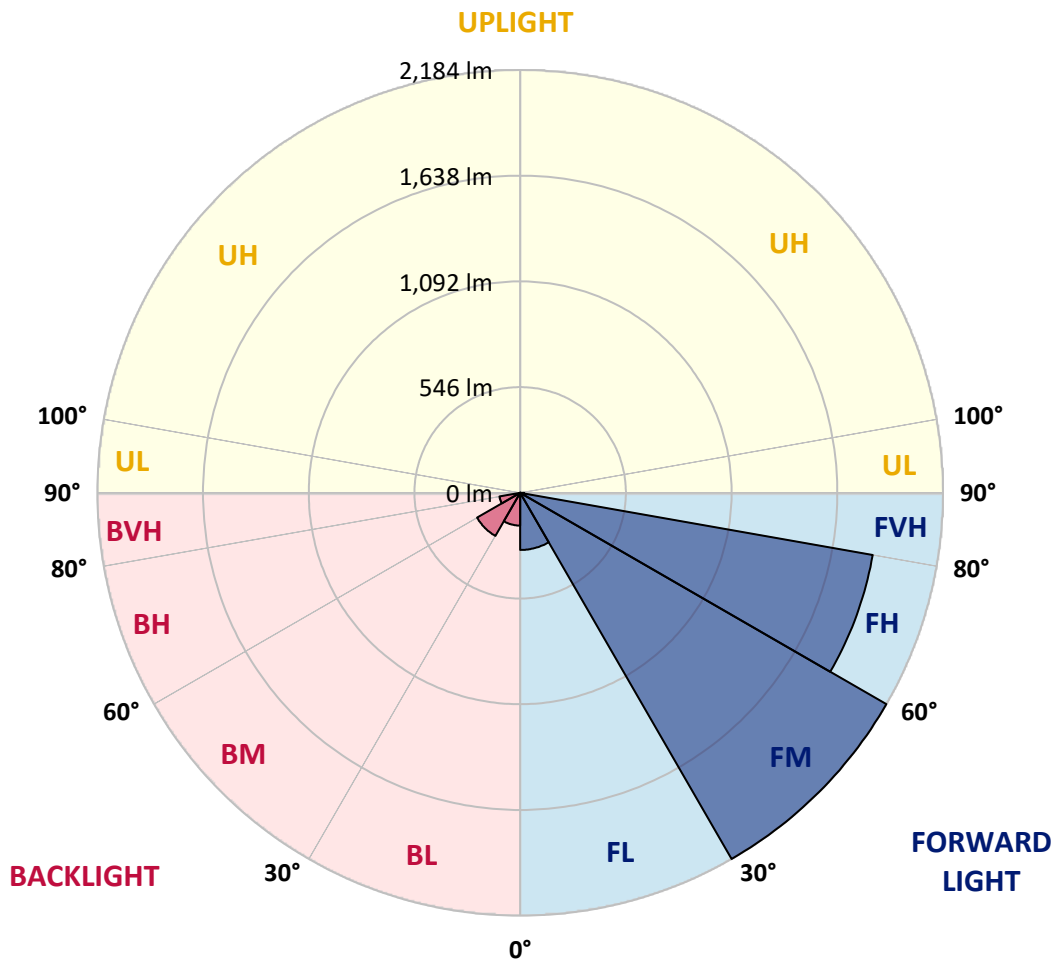
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	295.2	6.0			
FM	(30°-60°)	2184.1	44.7			
FH	(60°-80°)	1849.2	37.9			G2/5000
FVH	(80°-90°)	19.9	0.4			G1/100
BL	(0°-30°)	169.3	3.5	B1/500		
BM	(30°-60°)	256.9	5.3	B1/1000		
BH	(60°-80°)	109.1	2.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G2**

Type III Short





REPORT NUMBER: P348819

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	566.7	569.3	571.1	572.3	573.7	576.7	577.6	579.0	579.7	579.7	581.3
5°	544.3	547.1	551.0	554.3	560.7	569.0	575.0	577.3	581.5	585.2	587.3
7.5°	523.5	526.8	531.4	539.0	550.1	563.5	576.0	579.2	587.3	595.1	599.1
10°	510.1	512.7	518.7	529.5	544.1	562.8	580.3	584.3	598.1	611.3	618.7
12.5°	505.5	507.8	514.1	526.3	544.3	566.3	590.5	596.3	616.6	635.8	646.2
15°	512.2	512.7	519.4	530.9	548.7	574.8	607.4	614.3	639.9	664.9	677.8
17.5°	538.1	536.0	539.5	544.6	558.6	586.1	625.1	635.5	669.7	699.1	711.3
20°	602.7	602.7	594.9	581.0	581.3	603.7	649.2	660.9	702.7	736.7	747.8
22.5°	713.4	711.3	695.6	661.6	630.5	633.9	678.5	693.7	742.5	778.7	782.4
25°	846.4	843.8	819.6	771.8	717.8	682.9	718.2	735.8	789.8	821.9	814.3
27.5°	987.3	985.2	961.2	901.8	824.9	760.9	765.6	782.2	838.1	869.7	845.5
30°	1123.7	1124.4	1100.7	1039.7	952.6	860.5	825.6	835.3	885.0	917.1	882.4
32.5°	1253.5	1254.5	1233.9	1165.8	1084.5	976.2	908.7	906.2	939.5	971.1	931.4
35°	1369.2	1371.5	1357.5	1304.6	1218.4	1105.0	1016.6	1010.6	1016.8	1052.6	1006.4
37.5°	1480.8	1482.2	1471.5	1427.0	1354.9	1246.6	1152.8	1144.3	1130.9	1158.4	1105.5
40°	1602.9	1599.5	1587.2	1546.8	1484.9	1403.0	1299.3	1284.5	1261.2	1285.6	1235.8
42.5°	1716.6	1712.6	1714.7	1669.0	1616.8	1563.7	1469.9	1444.5	1430.9	1459.1	1395.6
45°	1858.6	1856.5	1863.4	1823.7	1781.5	1742.9	1665.5	1637.8	1631.8	1664.8	1588.9
47.5°	1998.8	2003.9	2025.3	2008.5	1991.4	1957.4	1872.7	1860.2	1863.9	1903.9	1792.8
50°	2115.6	2121.6	2180.5	2199.9	2224.6	2204.8	2119.8	2112.2	2126.7	2162.7	2012.2
52.5°	2200.1	2212.4	2285.6	2375.0	2465.0	2478.4	2393.7	2386.7	2406.4	2411.9	2181.7
55°	2258.8	2269.7	2352.6	2516.1	2699.4	2757.2	2704.5	2677.7	2674.0	2619.3	2360.0
57.5°	2269.2	2268.0	2387.2	2607.3	2883.3	3032.2	2999.0	2972.6	2896.9	2811.0	2564.3
60°	2210.5	2217.2	2355.6	2638.9	2998.7	3240.3	3242.8	3208.7	3090.6	2997.3	2762.5
62.5°	2029.9	2057.2	2196.9	2556.0	2997.3	3324.1	3421.6	3395.5	3254.4	3150.0	2963.4
65°	1737.1	1746.8	1880.1	2272.0	2794.8	3289.0	3582.5	3572.8	3402.0	3298.3	3066.6
67.5°	1268.5	1247.5	1387.5	1789.1	2366.2	3084.4	3698.0	3710.3	3515.8	3328.7	2956.7
68°	1157.7	1163.9	1272.9	1669.7	2254.0	3012.1	3705.6	3724.3	3527.1	3308.9	2896.7
70°	690.0	702.1	799.3	1149.6	1714.7	2603.1	3623.4	3666.1	3459.7	3104.0	2505.4
72.5°	176.2	190.5	282.4	514.5	979.4	1834.1	3058.8	3131.1	3003.8	2518.2	1691.4
75°	72.5	76.2	100.9	169.5	364.9	826.3	2016.1	2170.8	2082.4	1507.6	764.4
77.5°	50.1	52.7	64.9	94.0	158.0	280.1	988.4	1100.2	991.2	514.5	166.7
80°	36.0	38.1	46.4	62.6	90.8	100.0	322.2	372.5	295.8	112.9	41.3
82.5°	21.5	23.1	34.6	44.6	55.2	47.8	80.1	91.0	85.7	56.1	18.5
85°	10.6	12.5	23.3	31.9	29.8	20.1	24.5	27.3	33.7	34.2	9.9
87.5°	0.7	1.4	13.6	19.2	8.3	4.6	7.2	8.8	12.0	16.9	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348819

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3	580.3
2.5°	582.0	582.2	580.6	579.9	580.3	577.6	576.4	576.9	576.9	577.6	576.4
5°	587.7	587.7	585.0	581.3	579.2	573.9	570.4	569.5	568.8	568.3	567.4
7.5°	600.2	598.8	594.0	585.9	579.0	567.4	558.6	554.0	551.7	550.8	550.1
10°	620.3	617.8	609.7	594.7	578.7	558.2	539.0	525.4	514.1	509.4	506.7
12.5°	647.3	643.6	630.0	605.1	577.1	539.2	497.7	457.7	420.5	405.3	397.7
15°	678.5	673.2	651.7	613.8	567.6	496.5	406.2	336.2	284.7	265.3	257.0
17.5°	710.1	703.2	670.6	619.4	539.2	408.1	285.0	215.2	180.8	171.6	168.4
20°	742.0	731.8	687.0	615.2	475.0	294.2	188.0	157.3	147.3	144.6	143.6
22.5°	772.3	756.6	701.8	599.1	376.2	197.5	148.7	139.0	135.8	134.2	133.7
25°	798.6	776.6	714.8	549.2	266.3	149.2	133.9	130.7	126.6	123.6	123.8
27.5°	823.3	796.7	722.6	467.0	177.6	127.5	124.0	119.6	112.0	107.6	107.6
30°	853.1	823.5	728.4	359.3	130.7	112.7	109.9	103.2	92.8	87.1	87.1
32.5°	897.9	864.2	724.7	252.2	108.3	99.1	92.6	83.4	72.1	66.5	66.3
35°	966.5	927.0	698.4	165.4	95.6	86.1	75.7	64.4	54.5	49.9	49.7
37.5°	1058.9	1011.0	639.2	118.2	85.7	74.1	61.7	49.2	41.8	38.8	38.6
40°	1178.7	1108.7	554.7	95.8	76.4	62.6	47.6	38.1	33.0	30.7	30.9
42.5°	1322.6	1213.3	453.3	82.7	67.4	51.5	37.2	30.0	26.8	25.2	24.7
45°	1482.4	1316.6	347.1	73.7	58.4	41.6	29.1	23.8	21.2	20.3	20.3
47.5°	1658.1	1417.0	254.0	65.8	48.7	32.1	23.3	19.4	17.3	16.6	16.4
50°	1817.7	1486.8	183.1	57.5	40.0	25.4	18.9	16.2	14.8	13.9	13.9
52.5°	1950.7	1508.7	134.9	48.5	32.3	20.3	15.7	13.9	12.5	11.8	11.8
55°	2067.8	1499.7	100.2	40.0	26.1	16.6	13.4	11.8	10.6	9.9	9.9
57.5°	2180.1	1470.6	74.8	32.6	21.0	13.4	11.3	9.9	8.8	8.3	8.3
60°	2271.7	1422.1	55.7	26.3	16.9	10.9	9.5	8.1	7.2	6.5	6.5
62.5°	2346.1	1368.5	40.9	21.7	13.4	8.5	7.4	6.7	5.3	4.6	4.6
65°	2346.6	1279.6	30.7	18.0	10.4	6.7	5.5	5.3	3.5	2.8	2.5
67.5°	2176.8	1103.2	23.6	15.5	8.1	5.1	4.2	4.4	1.8	1.2	0.9
68°	2115.2	1058.4	22.2	15.2	7.6	4.8	3.9	4.4	1.6	0.9	0.7
70°	1783.3	842.0	17.8	14.8	6.7	3.7	3.2	4.4	1.4	0.7	0.5
72.5°	1140.6	488.7	13.2	11.8	5.1	2.8	2.1	3.9	1.4	0.5	0.2
75°	485.4	151.5	9.0	8.3	3.0	2.1	1.4	2.5	0.9	0.2	0.0
77.5°	102.3	34.2	5.3	5.1	2.1	1.4	0.9	0.7	0.2	0.0	0.0
80°	26.3	9.9	2.8	2.5	1.2	0.7	0.5	0.0	0.0	0.0	0.0
82.5°	8.3	3.9	1.6	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	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)