

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: P348882

Luminaire Tested: **ARCH-N-PA1-60-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-740-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

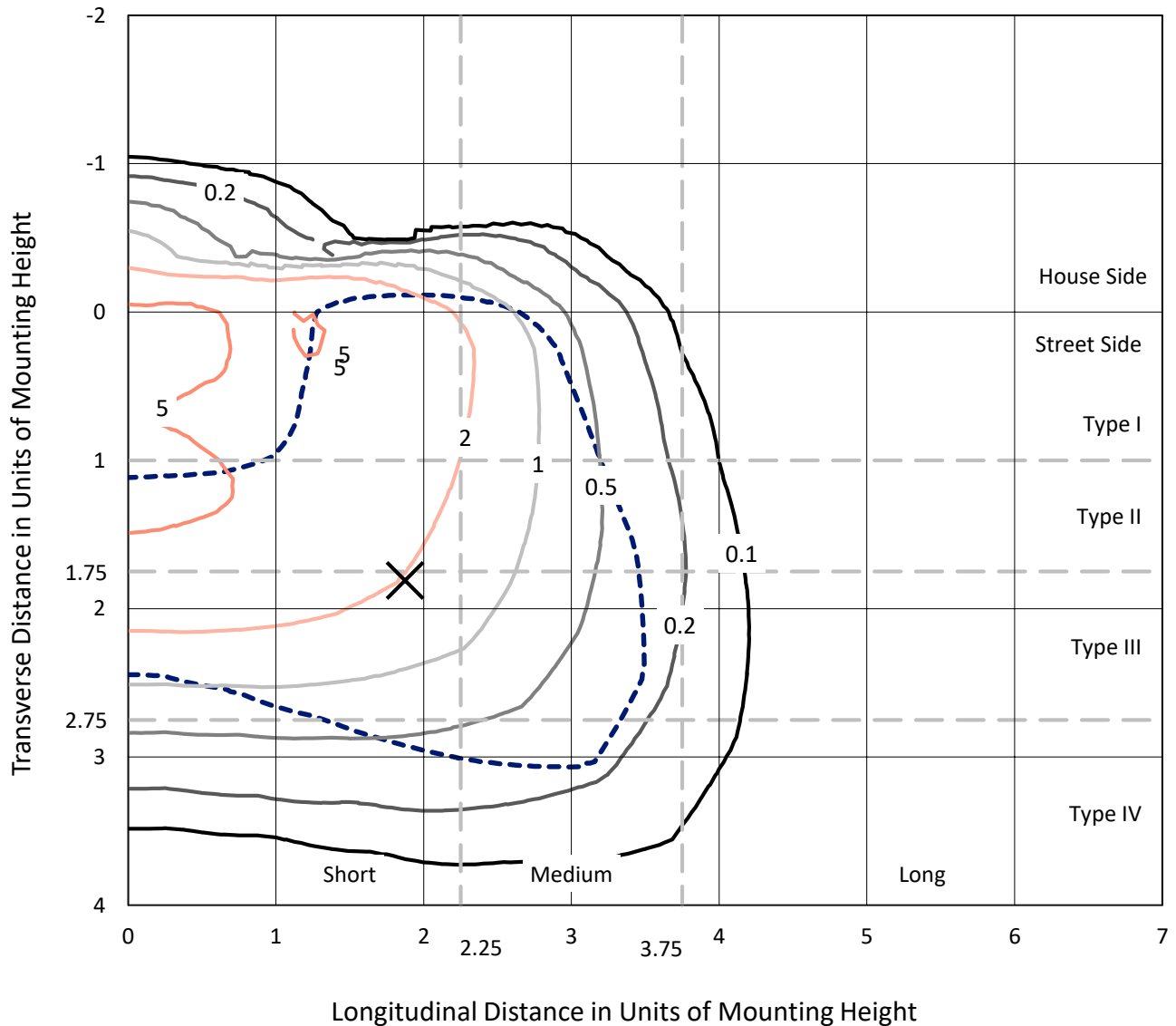
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

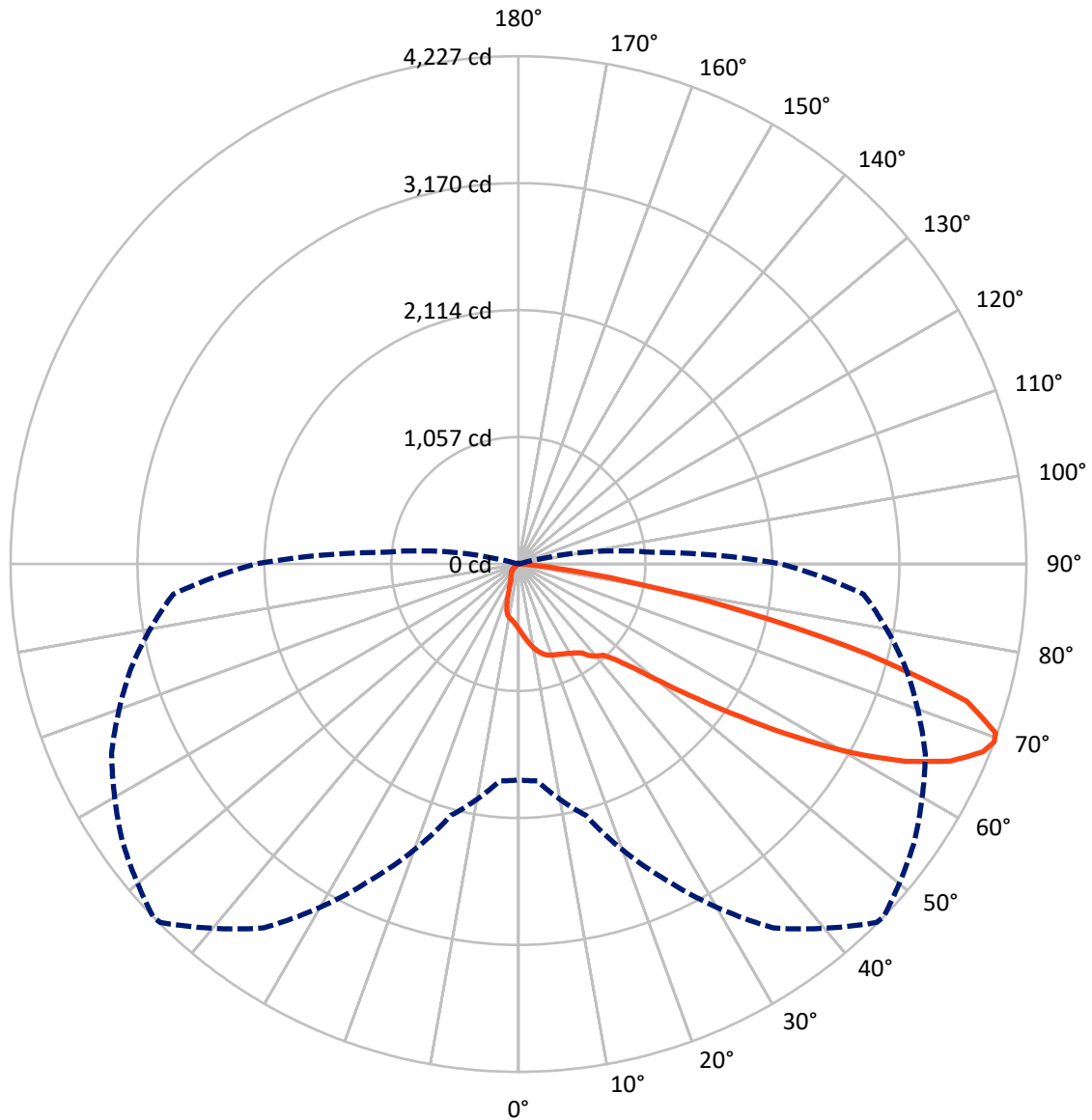


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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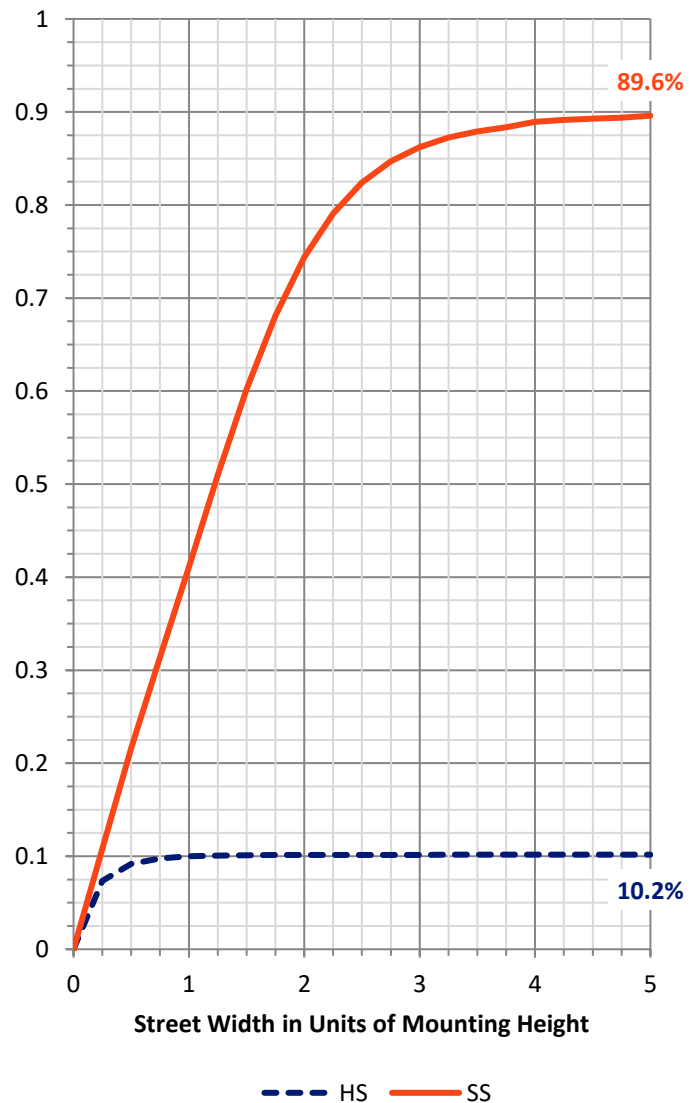
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.4	0.0	555.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4856.6	0.0	4856.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	5412.0	0.0	5412.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.0
10°-20°	163.7	3.0
20°-30°	257.5	4.8
30°-40°	369.3	6.8
40°-50°	638.3	11.8
50°-60°	1260.9	23.3
60°-70°	1762.2	32.6
70°-80°	851.4	15.7
80°-90°	54.7	1.0
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°	5412.0	100.0
0°-180°	5412.0	100.0



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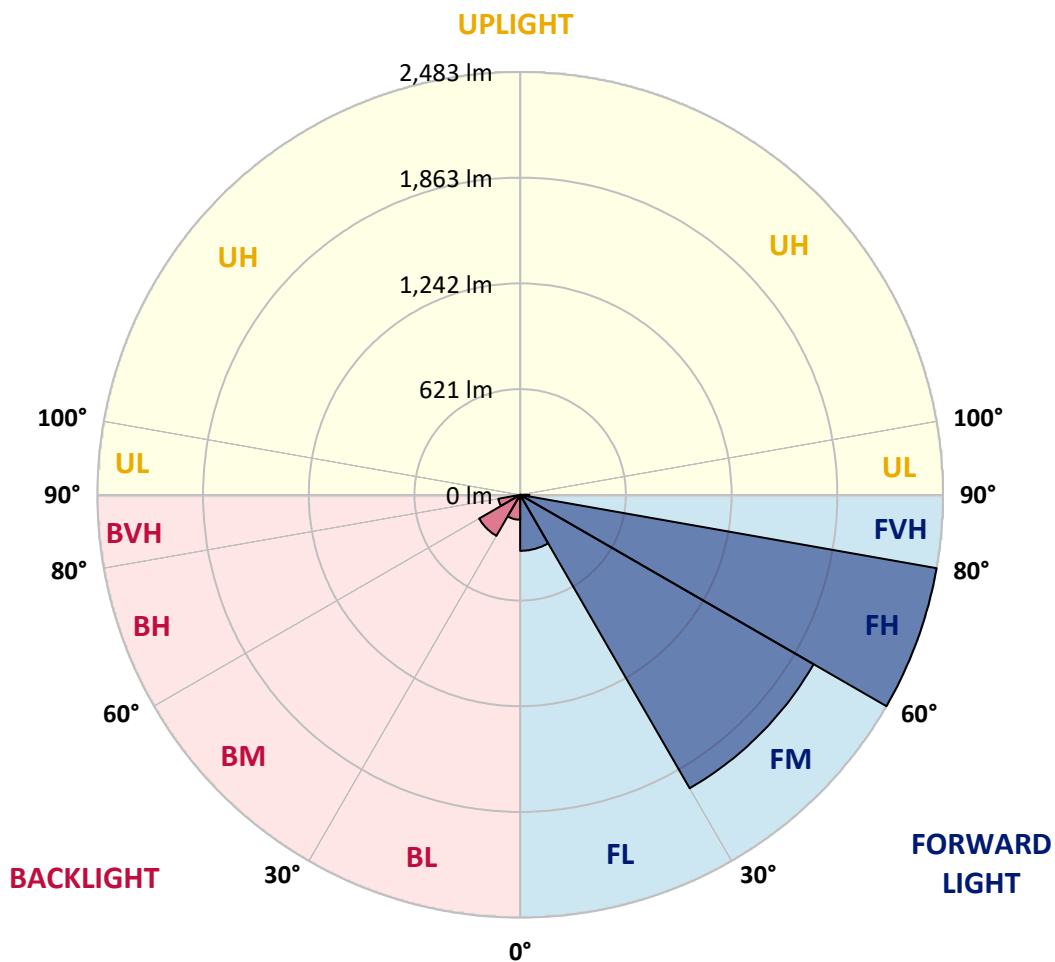
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.8	6.1			
FM	(30°-60°)	1990.1	36.8			
FH	(60°-80°)	2483.4	45.9			G2/5000
FVH	(80°-90°)	54.3	1.0			G1/100
BL	(0°-30°)	146.4	2.7	B1/500		
BM	(30°-60°)	278.3	5.1	B1/1000		
BH	(60°-80°)	130.2	2.4	B1/500		G1/500
BVH	(80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	602.4	601.6	598.1	596.6	587.9	582.9	580.8	574.5	565.4	556.2	546.1
5°	670.9	670.7	664.1	657.7	641.5	626.3	623.5	608.7	588.2	568.9	549.6
7.5°	740.9	737.6	731.1	718.9	695.3	670.9	668.6	647.8	618.6	590.7	563.1
10°	800.3	798.3	789.7	771.1	743.5	715.8	713.0	687.4	654.4	620.2	584.9
12.5°	846.5	845.0	833.6	810.5	781.0	752.4	748.6	725.7	690.5	652.1	610.5
15°	874.7	873.9	860.0	835.3	806.4	781.5	778.2	758.2	725.5	685.4	638.4
17.5°	881.3	881.5	867.1	842.2	818.3	800.6	798.0	782.8	755.4	715.6	666.3
20°	866.6	869.6	856.7	835.1	820.4	811.0	809.0	799.8	776.7	739.2	688.7
22.5°	845.7	847.3	838.4	823.9	817.8	819.6	818.6	813.5	794.0	759.5	710.8
25°	833.1	833.1	827.7	815.6	819.6	830.5	830.8	829.8	814.3	784.3	737.6
27.5°	832.6	831.0	824.9	815.8	827.0	843.7	844.7	851.6	841.9	814.5	771.1
30°	852.9	851.1	838.1	826.2	840.4	858.4	861.0	875.9	871.1	847.3	808.4
32.5°	900.3	894.0	865.3	845.7	856.4	878.0	881.3	905.1	912.7	887.6	844.5
35°	965.3	945.2	903.9	882.8	883.8	906.4	909.4	944.5	967.0	924.7	872.4
37.5°	1054.8	1044.9	977.7	921.4	925.9	960.2	969.1	1007.1	1000.8	945.0	904.1
40°	1251.2	1235.8	1164.2	1029.5	966.3	1003.8	1006.6	1026.9	1027.4	990.9	970.1
42.5°	1518.7	1512.3	1437.0	1225.6	1045.7	1033.0	1038.1	1072.3	1110.7	1087.8	1086.8
45°	1814.8	1811.5	1731.6	1486.0	1206.3	1128.7	1135.0	1180.9	1254.3	1259.4	1291.6
47.5°	2053.1	2051.6	2005.6	1776.5	1452.2	1290.8	1292.9	1341.6	1470.5	1534.2	1585.7
50°	2270.3	2277.7	2241.4	2090.9	1787.2	1544.8	1540.0	1572.5	1779.5	1883.8	1947.8
52.5°	2572.3	2582.7	2480.9	2384.2	2138.6	1860.0	1856.2	1890.2	2151.0	2229.2	2240.6
55°	2838.9	2821.2	2740.7	2712.8	2567.2	2249.2	2248.2	2278.2	2510.3	2543.6	2564.6
57.5°	2956.7	2949.8	2988.7	3052.6	3016.1	2709.3	2707.0	2684.2	2831.8	2835.4	2900.1
60°	3031.0	3039.4	3158.4	3355.6	3446.7	3204.3	3189.6	3050.3	3138.9	3131.0	3200.3
62.5°	2975.2	2991.7	3205.9	3534.5	3768.9	3636.5	3615.7	3385.8	3401.3	3374.1	3438.6
65°	2678.8	2704.5	3055.4	3500.7	3928.8	3974.2	3953.2	3681.9	3609.6	3564.9	3529.1
67.5°	2175.1	2190.4	2556.8	3207.1	3856.7	4175.7	4171.4	3941.5	3766.9	3532.7	3255.1
69°	1797.6	1812.5	2165.2	2898.1	3698.1	4218.8	4227.2	4024.7	3737.0	3336.8	2884.1
70°	1522.5	1538.5	1867.1	2633.2	3514.2	4198.8	4213.8	4016.9	3651.2	3110.0	2558.6
72.5°	798.5	812.3	1149.5	1814.1	2864.8	3855.5	3900.9	3677.3	3095.0	2258.6	1512.9
75°	251.0	258.8	448.9	948.3	1961.5	2997.8	3008.2	2884.6	2197.7	1242.4	630.1
77.5°	95.7	93.4	149.5	349.4	991.7	1887.6	1951.3	1802.6	1153.3	439.2	145.4
80°	51.5	51.8	77.6	144.6	424.3	970.1	1023.9	873.7	409.8	137.0	33.5
82.5°	22.3	23.3	43.6	76.6	194.9	357.8	384.7	320.2	156.6	92.1	12.4
85°	4.8	5.3	21.1	41.6	79.4	100.5	105.3	103.8	99.7	71.6	4.8
87.5°	0.0	0.0	9.4	15.0	20.0	22.8	20.0	26.1	55.1	48.2	2.5
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°	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3	542.3
2.5°	542.8	538.2	530.3	521.7	515.6	509.3	504.2	501.9	499.4	497.6	499.9
5°	541.8	532.9	517.6	502.9	492.3	483.6	476.5	473.7	471.0	468.9	468.7
7.5°	550.6	538.2	514.9	493.3	476.8	465.1	455.5	451.4	448.1	446.6	445.3
10°	567.6	551.7	520.4	492.3	471.0	451.2	430.4	414.4	404.0	399.1	397.4
12.5°	589.7	569.7	531.1	497.6	466.6	428.6	384.4	346.4	321.8	313.6	308.8
15°	615.6	590.7	545.1	504.5	450.9	381.4	306.5	256.8	234.0	229.4	224.3
17.5°	640.5	613.1	561.8	505.7	416.4	304.8	224.6	190.8	181.9	185.0	185.7
20°	662.3	635.1	578.3	494.6	353.7	228.6	173.8	165.4	168.7	174.6	175.6
22.5°	684.4	656.4	593.5	465.1	273.5	173.6	156.6	158.6	161.9	167.7	168.7
25°	711.3	682.3	607.7	411.1	205.3	147.7	148.7	151.7	155.0	160.4	160.9
27.5°	742.2	715.1	617.1	340.8	152.2	135.8	139.1	143.6	146.9	152.0	153.0
30°	783.3	758.2	620.2	268.0	127.6	125.1	126.6	132.2	137.0	141.6	142.4
32.5°	821.9	800.8	610.0	202.2	118.2	115.2	115.2	118.5	124.1	128.4	129.4
35°	857.4	843.7	577.5	147.9	111.1	106.1	103.5	103.5	107.1	110.6	111.6
37.5°	904.4	903.9	525.0	118.0	104.3	98.5	93.1	89.1	87.8	88.6	89.1
40°	984.8	985.6	456.5	105.8	98.5	90.6	82.5	75.1	68.3	66.0	65.7
42.5°	1110.4	1099.0	384.7	100.0	93.4	82.5	70.3	60.4	49.7	46.4	46.2
45°	1309.9	1242.1	308.6	94.6	88.1	73.3	58.1	44.7	36.0	33.5	33.5
47.5°	1600.4	1430.1	239.0	88.8	80.9	62.9	43.9	32.2	26.4	25.1	25.4
50°	1900.8	1614.4	183.2	81.5	72.3	52.0	32.5	23.3	20.0	20.0	20.3
52.5°	2167.3	1749.3	142.9	73.6	61.7	40.9	24.6	18.3	16.7	16.5	16.7
55°	2416.7	1836.4	109.4	64.5	49.0	30.4	18.8	15.0	14.0	13.4	13.2
57.5°	2657.3	1879.5	82.0	52.0	35.5	22.1	15.0	12.7	11.7	10.9	10.7
60°	2817.4	1844.5	56.3	38.3	24.6	16.0	12.4	10.9	9.6	8.9	8.6
62.5°	2907.7	1748.8	36.3	27.7	17.5	11.9	9.9	9.1	7.4	6.6	6.6
65°	2871.2	1591.0	25.4	19.8	12.7	8.9	7.4	7.4	5.3	4.3	4.1
67.5°	2544.3	1344.1	19.3	14.7	9.1	6.6	5.6	6.3	3.3	2.0	2.0
69°	2189.1	1114.0	16.5	12.2	7.6	5.3	4.8	5.8	2.3	1.5	1.3
70°	1902.6	960.9	15.0	10.7	6.3	4.6	4.3	5.6	2.3	1.3	1.0
72.5°	1138.3	535.9	11.4	7.6	4.1	3.6	3.6	6.3	2.3	1.3	1.0
75°	460.0	188.8	8.4	5.3	3.0	3.0	4.3	8.1	2.0	1.0	0.8
77.5°	104.3	41.4	4.8	3.3	2.0	3.0	5.1	6.3	1.3	0.5	0.0
80°	25.4	10.1	3.0	2.0	1.3	2.3	3.8	3.6	0.3	0.0	0.0
82.5°	8.4	3.6	1.3	1.0	0.3	0.8	1.8	1.0	0.0	0.0	0.0
85°	3.6	2.0	0.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	0.0	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)