

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: P348875

Luminaire Tested: **ARCH-N-PA1-60-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348875
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-PA1-60-730-U-T4W-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: 4929 lumens
Efficiency: N/A
Efficacy: 79.5 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

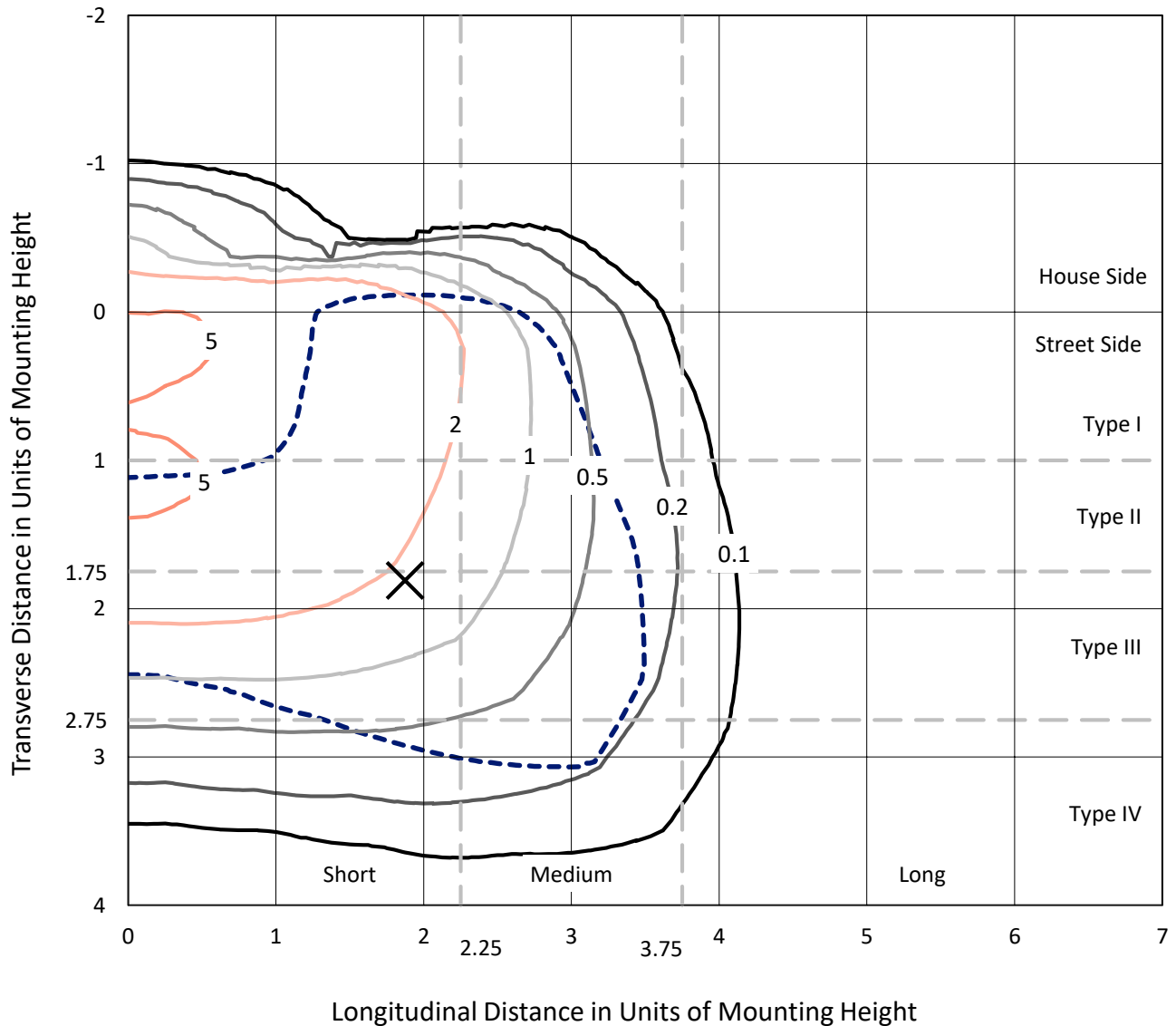
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348875
 CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

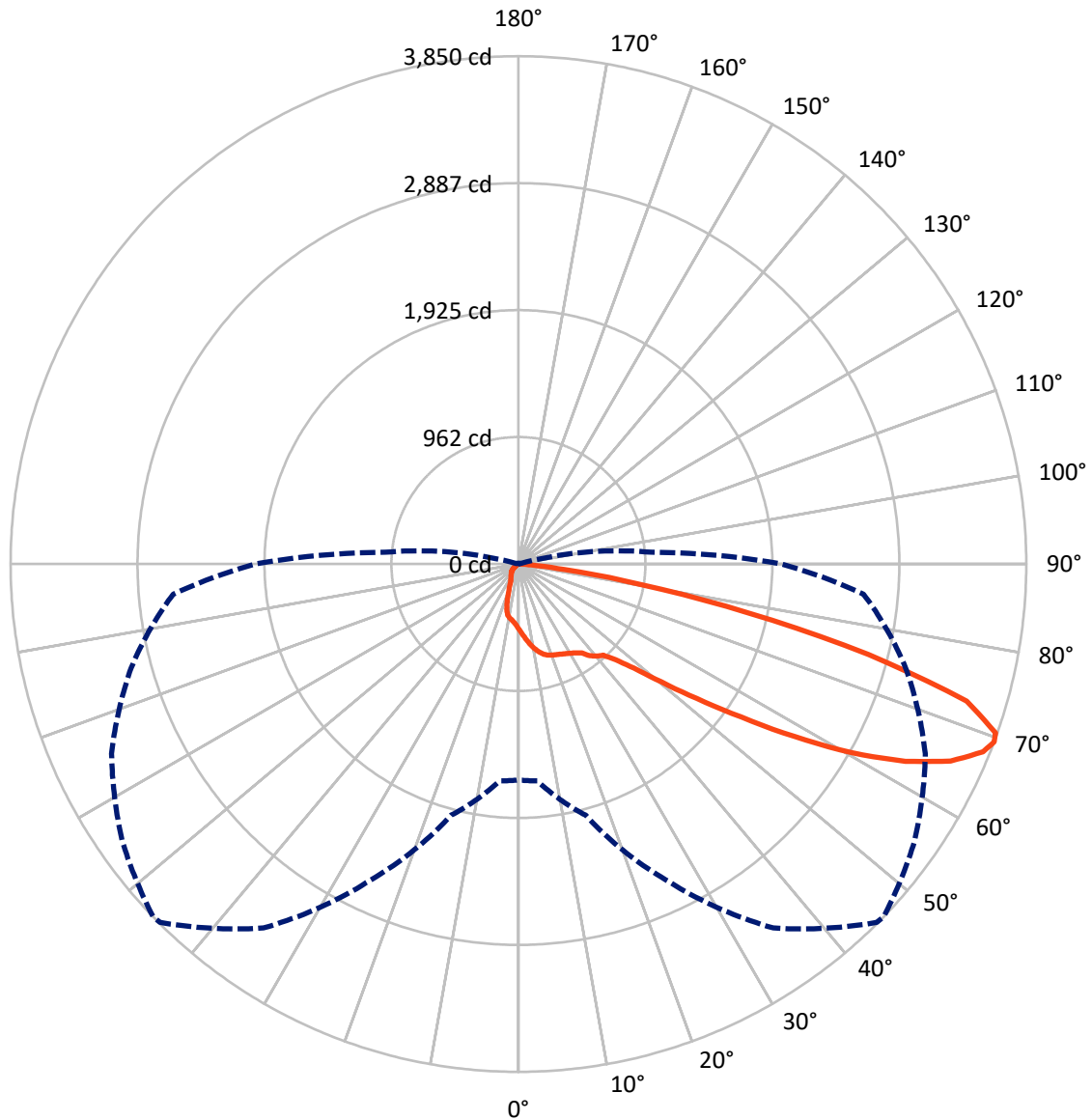


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P348875

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P348875

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

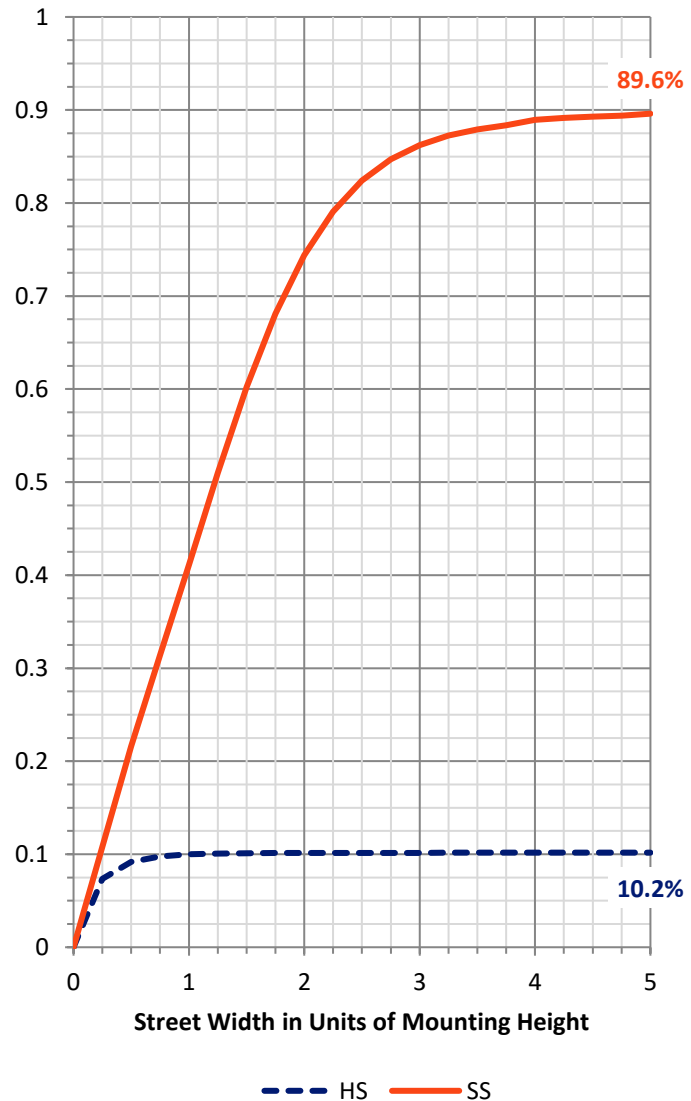
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	505.8	0.0	505.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4423.1	0.0	4423.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	4929.0	0.0	4929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	1.0
10°-20°	149.1	3.0
20°-30°	234.5	4.8
30°-40°	336.3	6.8
40°-50°	581.3	11.8
50°-60°	1148.4	23.3
60°-70°	1605.0	32.6
70°-80°	775.4	15.7
80°-90°	49.8	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°	4929.0	100.0
0°-180°	4929.0	100.0



REPORT NUMBER: P348875

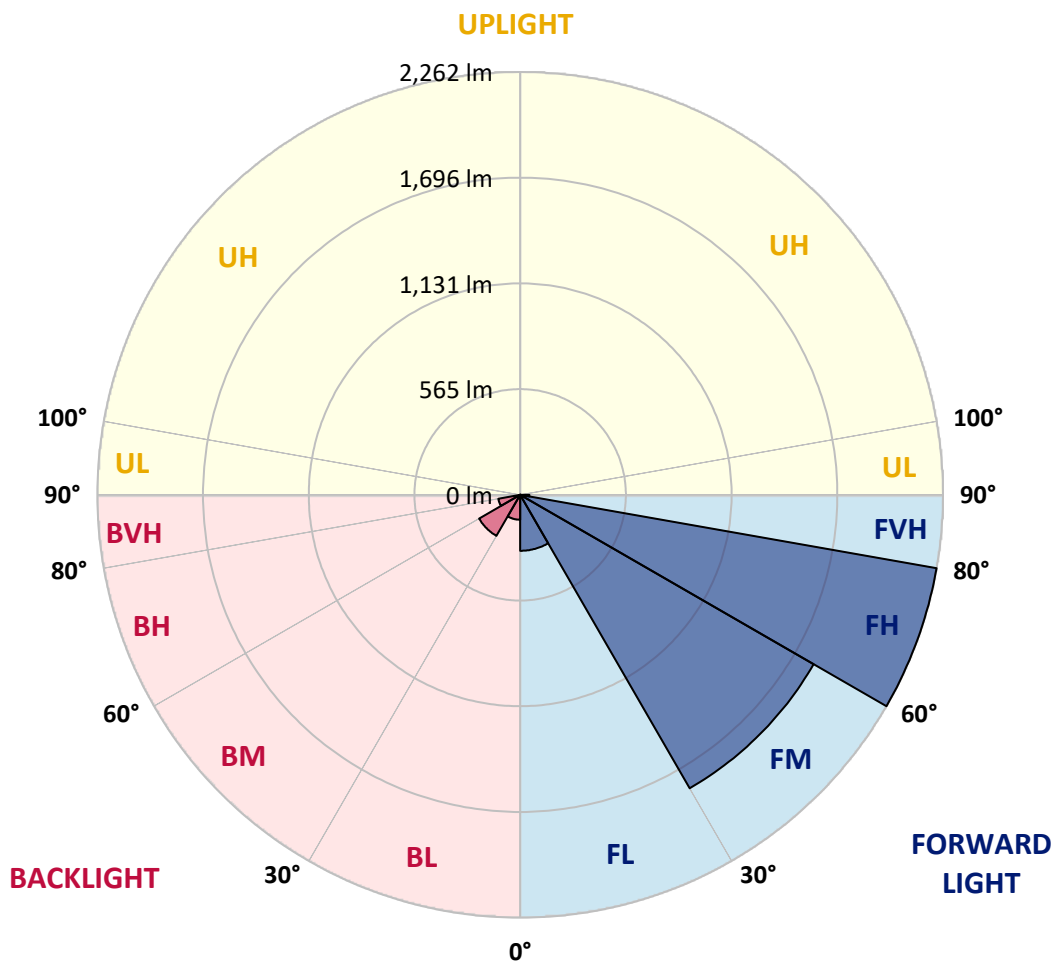
CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.5	6.1			
FM	(30°-60°)	1812.5	36.8			
FH	(60°-80°)	2261.7	45.9			G2/5000
FVH	(80°-90°)	49.4	1.0			G1/100
BL	(0°-30°)	133.3	2.7	B1/500		
BM	(30°-60°)	253.5	5.1	B1/1000		
BH	(60°-80°)	118.6	2.4	B1/500		G1/500
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 IV Short





REPORT NUMBER: P348875

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	548.6	547.9	544.7	543.3	535.5	530.8	529.0	523.2	514.9	506.6	497.3
5°	611.0	610.8	604.8	599.0	584.2	570.4	567.8	554.4	535.7	518.1	500.6
7.5°	674.8	671.8	665.8	654.7	633.2	611.0	609.0	590.0	563.4	538.0	512.8
10°	728.9	727.1	719.2	702.3	677.1	651.9	649.4	626.1	596.0	564.8	532.7
12.5°	771.0	769.6	759.2	738.1	711.3	685.2	681.8	661.0	628.8	593.9	556.0
15°	796.6	795.9	783.2	760.8	734.4	711.8	708.8	690.5	660.7	624.2	581.5
17.5°	802.6	802.9	789.7	767.0	745.3	729.1	726.8	713.0	688.0	651.7	606.9
20°	789.2	792.0	780.2	760.6	747.2	738.6	736.8	728.4	707.4	673.2	627.2
22.5°	770.3	771.7	763.6	750.4	744.8	746.5	745.5	740.9	723.1	691.7	647.3
25°	758.7	758.7	753.9	742.8	746.5	756.4	756.6	755.7	741.6	714.3	671.8
27.5°	758.2	756.9	751.3	743.0	753.2	768.4	769.3	775.6	766.8	741.8	702.3
30°	776.7	775.1	763.3	752.5	765.4	781.8	784.1	797.8	793.4	771.7	736.3
32.5°	820.0	814.2	788.1	770.3	780.0	799.6	802.6	824.3	831.3	808.4	769.1
35°	879.1	860.9	823.2	804.0	804.9	825.5	828.3	860.2	880.7	842.1	794.5
37.5°	960.7	951.7	890.4	839.1	843.3	874.5	882.6	917.2	911.5	860.6	823.4
40°	1139.6	1125.5	1060.3	937.6	880.0	914.2	916.8	935.3	935.7	902.5	883.5
42.5°	1383.2	1377.4	1308.7	1116.2	952.4	940.8	945.4	976.6	1011.5	990.7	989.8
45°	1652.8	1649.8	1577.0	1353.3	1098.7	1027.9	1033.7	1075.6	1142.3	1147.0	1176.3
47.5°	1869.9	1868.5	1826.6	1618.0	1322.6	1175.6	1177.5	1221.8	1339.2	1397.2	1444.2
50°	2067.7	2074.4	2041.3	1904.3	1627.7	1407.0	1402.6	1432.1	1620.7	1715.7	1773.9
52.5°	2342.7	2352.2	2259.5	2171.4	1947.7	1694.0	1690.5	1721.5	1959.1	2030.2	2040.6
55°	2585.6	2569.4	2496.1	2470.7	2338.1	2048.5	2047.6	2074.8	2286.3	2316.6	2335.8
57.5°	2692.8	2686.6	2721.9	2780.2	2746.9	2467.5	2465.4	2444.6	2579.1	2582.3	2641.3
60°	2760.5	2768.2	2876.5	3056.1	3139.1	2918.4	2905.0	2778.1	2858.7	2851.6	2914.7
62.5°	2709.7	2724.7	2919.8	3219.0	3432.6	3311.9	3293.0	3083.6	3097.7	3073.0	3131.7
65°	2439.8	2463.1	2782.7	3188.3	3578.2	3619.5	3600.4	3353.3	3287.4	3246.8	3214.2
67.5°	1981.0	1994.9	2328.6	2920.9	3512.5	3803.0	3799.1	3589.7	3430.7	3217.4	2964.6
69°	1637.1	1650.8	1972.0	2639.4	3368.1	3842.3	3849.9	3665.5	3403.5	3039.0	2626.7
70°	1386.6	1401.2	1700.5	2398.2	3200.5	3824.1	3837.7	3658.4	3325.3	2832.4	2330.2
72.5°	727.3	739.8	1046.9	1652.2	2609.2	3511.4	3552.7	3349.1	2818.8	2057.0	1377.8
75°	228.6	235.7	408.8	863.6	1786.4	2730.3	2739.7	2627.2	2001.6	1131.5	573.8
77.5°	87.1	85.0	136.1	318.2	903.2	1719.2	1777.2	1641.8	1050.4	400.0	132.4
80°	46.9	47.1	70.7	131.7	386.4	883.5	932.5	795.7	373.2	124.8	30.5
82.5°	20.3	21.3	39.7	69.8	177.5	325.9	350.4	291.7	142.6	83.9	11.3
85°	4.4	4.9	19.2	37.9	72.3	91.5	95.9	94.5	90.8	65.2	4.4
87.5°	0.0	0.0	8.6	13.6	18.3	20.8	18.3	23.8	50.1	43.9	2.3
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: P348875

CATALOG NUMBER: ARCH-N-PA1-60-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	494.3	490.2	483.0	475.1	469.6	463.8	459.2	457.1	454.8	453.2	455.3
5°	493.4	485.3	471.5	458.0	448.3	440.5	434.0	431.5	428.9	427.1	426.8
7.5°	501.5	490.2	468.9	449.3	434.2	423.6	414.8	411.1	408.1	406.7	405.6
10°	517.0	502.4	474.0	448.3	428.9	410.9	392.0	377.4	367.9	363.5	361.9
12.5°	537.1	518.8	483.7	453.2	425.0	390.3	350.1	315.5	293.0	285.6	281.3
15°	560.7	538.0	496.4	459.4	410.7	347.3	279.2	233.9	213.1	208.9	204.3
17.5°	583.3	558.3	511.7	460.6	379.2	277.6	204.5	173.8	165.7	168.5	169.2
20°	603.2	578.5	526.7	450.4	322.2	208.2	158.3	150.7	153.7	159.0	159.9
22.5°	623.3	597.9	540.6	423.6	249.1	158.1	142.6	144.4	147.4	152.8	153.7
25°	647.8	621.4	553.5	374.4	187.0	134.5	135.4	138.2	141.2	146.1	146.5
27.5°	676.0	651.2	562.0	310.4	138.7	123.6	126.6	130.8	133.8	138.4	139.4
30°	713.4	690.5	564.8	244.0	116.2	113.9	115.3	120.4	124.8	129.0	129.6
32.5°	748.5	729.4	555.6	184.2	107.7	104.9	104.9	107.9	113.0	116.9	117.9
35°	780.9	768.4	526.0	134.7	101.2	96.6	94.3	94.3	97.5	100.8	101.7
37.5°	823.7	823.2	478.2	107.5	95.0	89.7	84.8	81.1	80.0	80.7	81.1
40°	896.9	897.6	415.8	96.4	89.7	82.5	75.1	68.4	62.2	60.1	59.9
42.5°	1011.3	1000.9	350.4	91.1	85.0	75.1	64.0	55.0	45.3	42.3	42.1
45°	1193.0	1131.2	281.0	86.2	80.2	66.8	52.9	40.7	32.8	30.5	30.5
47.5°	1457.6	1302.5	217.7	80.9	73.7	57.3	40.0	29.4	24.0	22.9	23.1
50°	1731.2	1470.3	166.9	74.2	65.9	47.4	29.6	21.3	18.3	18.3	18.5
52.5°	1973.9	1593.2	130.1	67.0	56.2	37.2	22.4	16.6	15.3	15.0	15.3
55°	2201.0	1672.5	99.6	58.7	44.6	27.7	17.1	13.6	12.7	12.2	12.0
57.5°	2420.1	1711.8	74.6	47.4	32.4	20.1	13.6	11.6	10.6	9.9	9.7
60°	2565.9	1679.9	51.3	34.9	22.4	14.6	11.3	9.9	8.8	8.1	7.9
62.5°	2648.2	1592.8	33.0	25.2	15.9	10.9	9.0	8.3	6.7	6.0	6.0
65°	2614.9	1449.0	23.1	18.0	11.6	8.1	6.7	6.7	4.9	3.9	3.7
67.5°	2317.3	1224.2	17.6	13.4	8.3	6.0	5.1	5.8	3.0	1.8	1.8
69°	1993.7	1014.5	15.0	11.1	6.9	4.9	4.4	5.3	2.1	1.4	1.2
70°	1732.8	875.2	13.6	9.7	5.8	4.2	3.9	5.1	2.1	1.2	0.9
72.5°	1036.7	488.1	10.4	6.9	3.7	3.2	3.2	5.8	2.1	1.2	0.9
75°	419.0	171.9	7.6	4.9	2.8	2.8	3.9	7.4	1.8	0.9	0.7
77.5°	95.0	37.7	4.4	3.0	1.8	2.8	4.6	5.8	1.2	0.5	0.0
80°	23.1	9.2	2.8	1.8	1.2	2.1	3.5	3.2	0.2	0.0	0.0
82.5°	7.6	3.2	1.2	0.9	0.2	0.7	1.6	0.9	0.0	0.0	0.0
85°	3.2	1.8	0.5	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	2.1	0.7	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)