

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: P573281

Luminaire Tested: **ARCH-S-PA2-50-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

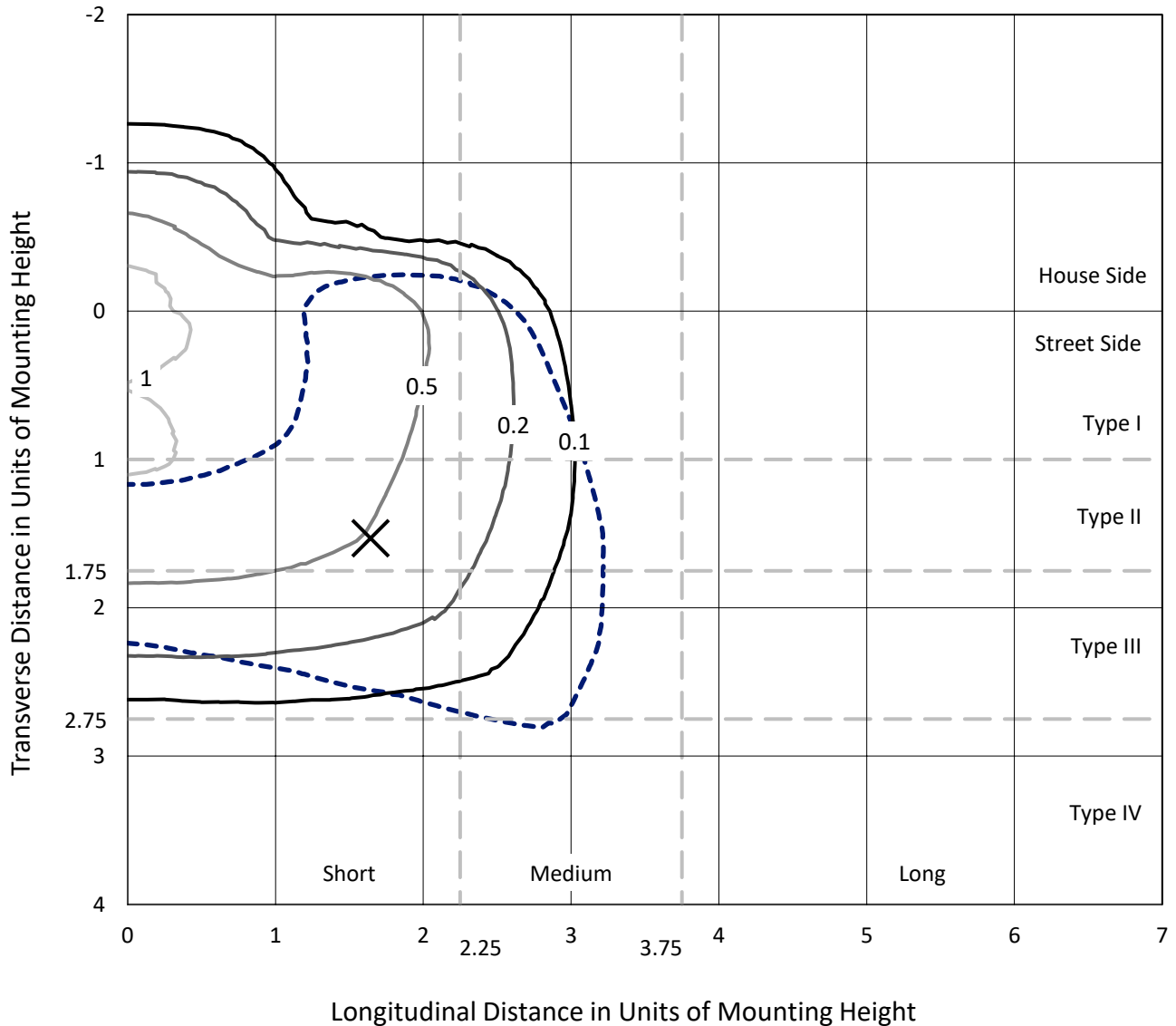
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

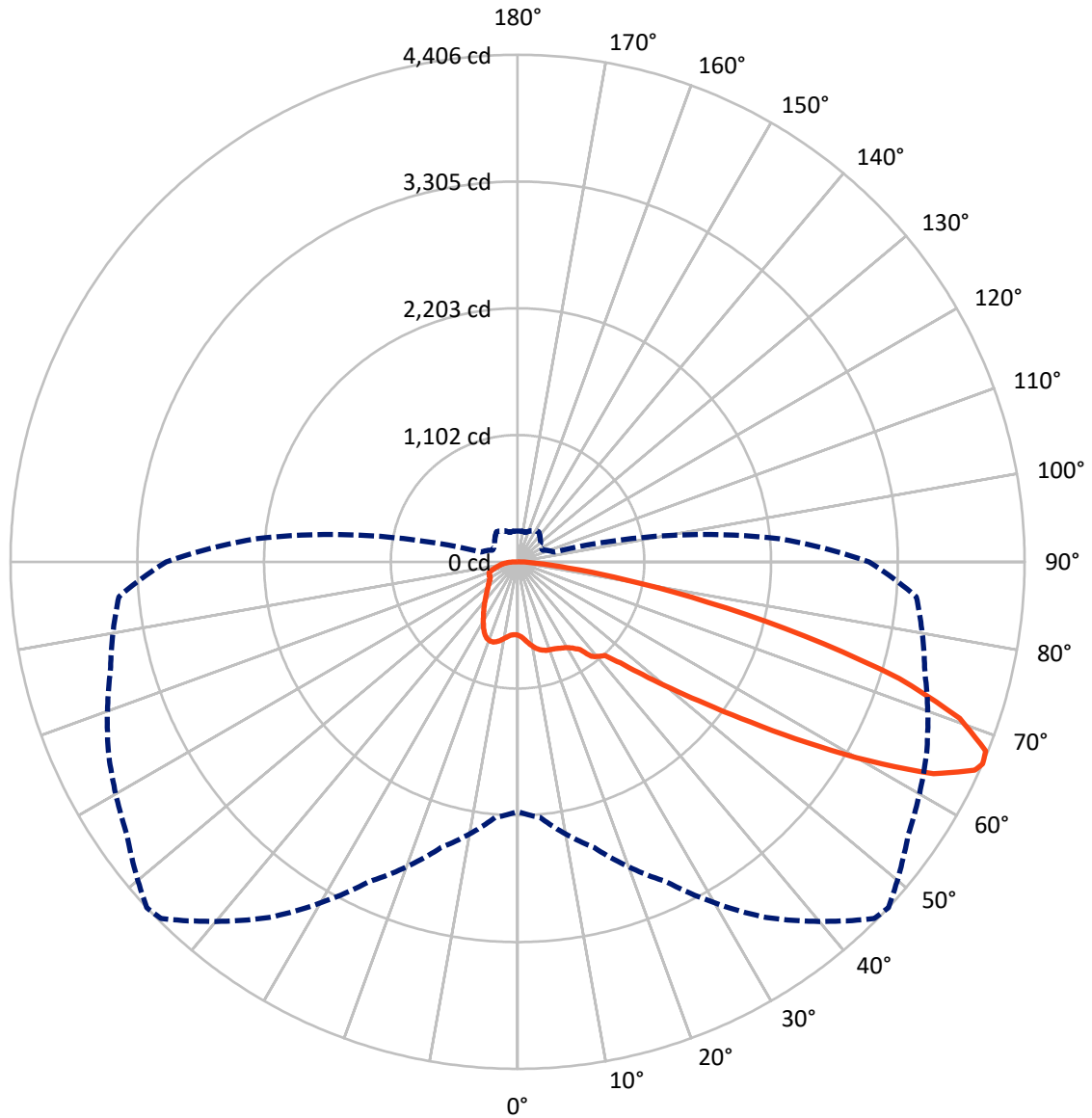
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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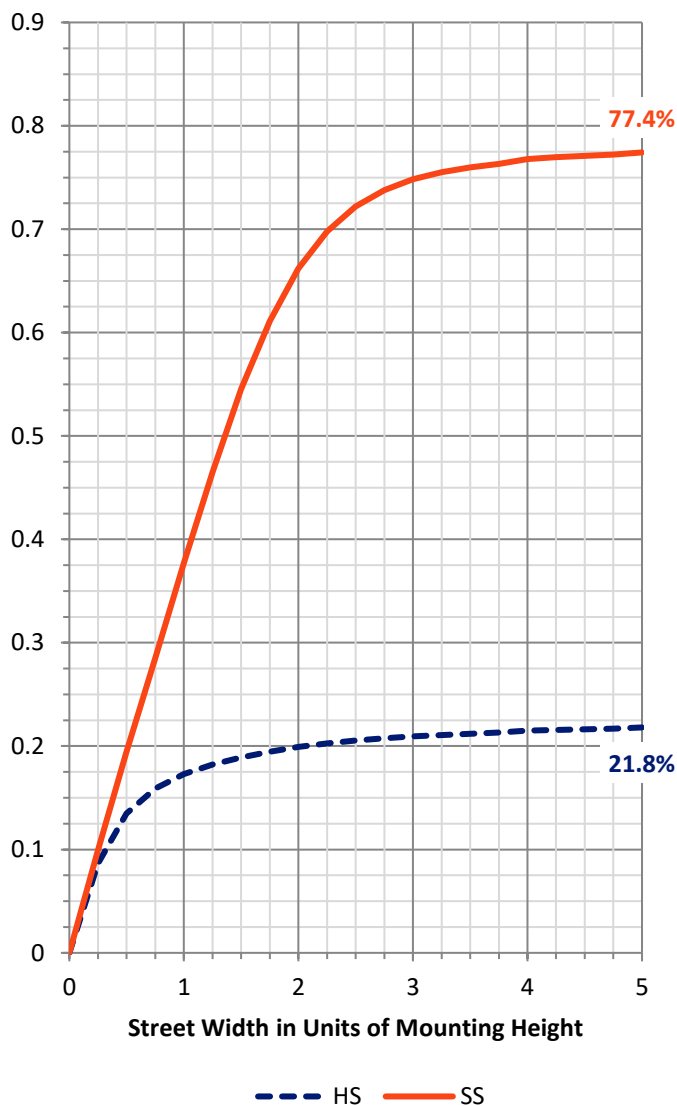
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.1	0.0	1411.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	4935.9	0.0	4935.9
	% Fixture	77.8	0.0	77.8
Total	Lumens	6347.0	0.0	6347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.0
10°-20°	213.0	3.4
20°-30°	355.3	5.6
30°-40°	516.0	8.1
40°-50°	789.1	12.4
50°-60°	1491.6	23.5
60°-70°	1927.3	30.4
70°-80°	866.3	13.6
80°-90°	123.6	1.9
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°	6347.0	100.0
0°-180°	6347.0	100.0

Coefficient of Utilization

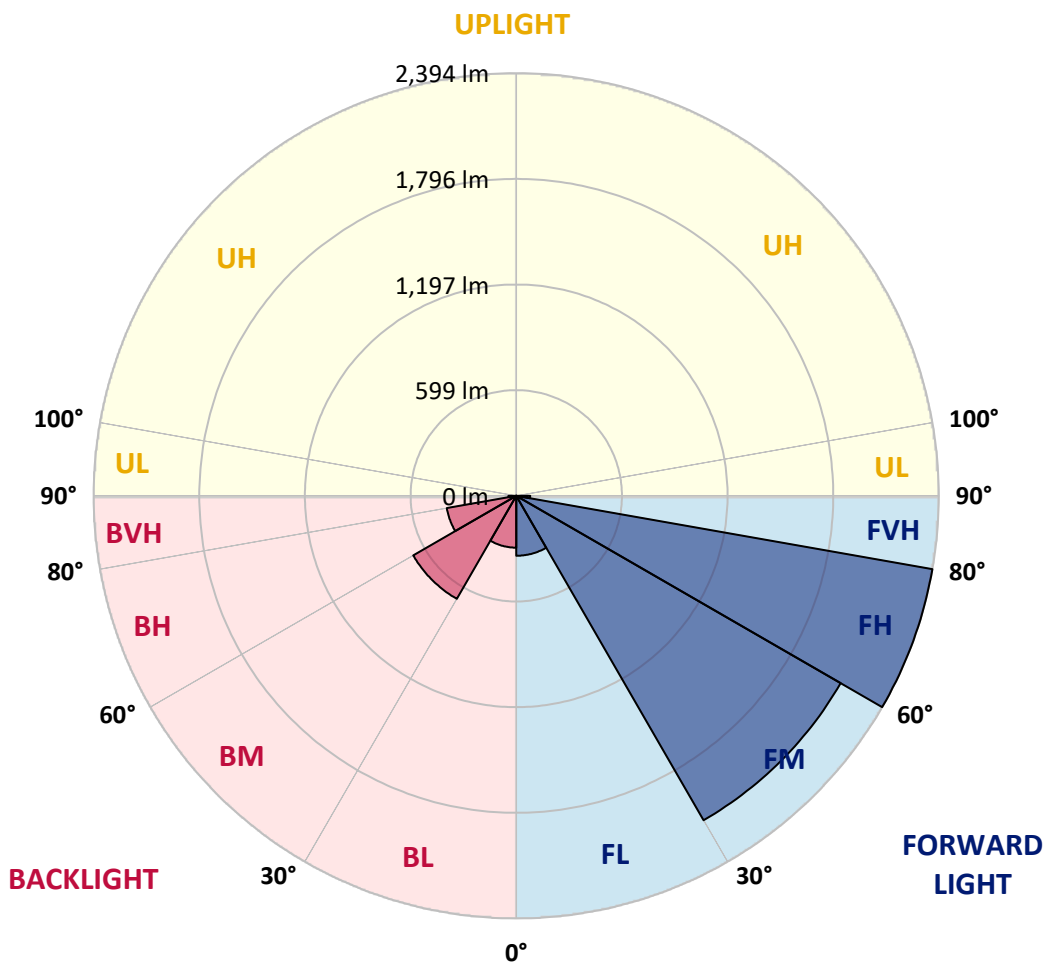


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.6	5.4			
FM (30°-60°)	2122.6	33.4			
FH (60°-80°)	2394.3	37.7			G2/5000
FVH (80°-90°)	79.4	1.3			G1/100
BL (0°-30°)	293.7	4.6	B1/500		
BM (30°-60°)	674.0	10.6	B1/1000		
BH (60°-80°)	399.3	6.3	B1/500		G1/500
BVH (80°-90°)	44.2	0.7			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1
2.5°	674.3	669.1	665.7	663.9	660.5	653.6	653.6	651.9	645.0	641.5	639.8
5°	727.7	724.3	715.7	708.8	698.4	684.6	682.9	672.6	658.8	648.4	641.5
7.5°	779.5	776.0	767.4	757.1	739.8	722.6	717.4	703.6	681.2	665.7	653.6
10°	824.3	819.1	808.8	795.0	776.0	757.1	751.9	736.4	713.9	691.5	670.8
12.5°	853.6	850.2	838.1	820.9	800.2	781.2	777.8	764.0	741.5	717.4	691.5
15°	867.4	865.7	851.9	834.7	814.0	798.4	796.7	784.6	765.7	741.5	712.2
17.5°	864.0	862.3	850.2	832.9	817.4	808.8	808.8	800.2	784.6	764.0	732.9
20°	846.7	846.7	836.4	824.3	815.7	814.0	814.0	812.2	801.9	784.6	753.6
22.5°	829.5	829.5	822.6	814.0	812.2	819.1	820.9	824.3	820.9	807.1	779.5
25°	832.9	831.2	822.6	812.2	814.0	829.5	832.9	841.6	839.8	829.5	805.3
27.5°	870.9	869.2	846.7	826.0	824.3	843.3	846.7	858.8	858.8	850.2	834.7
30°	965.7	969.2	927.8	876.0	850.2	862.3	865.7	879.5	886.4	889.8	877.8
32.5°	1110.6	1105.4	1043.3	958.8	901.9	889.8	895.0	907.1	931.2	938.1	908.8
35°	1257.2	1260.6	1200.3	1093.3	984.7	939.9	936.4	953.7	989.9	958.8	907.1
37.5°	1393.4	1388.2	1317.5	1202.0	1093.3	1041.6	1043.3	1036.4	1005.4	943.3	919.2
40°	1541.7	1527.9	1469.3	1321.0	1183.0	1096.8	1081.3	1022.6	996.8	970.9	967.4
42.5°	1688.3	1690.0	1641.7	1495.1	1289.9	1136.4	1112.3	1051.9	1069.2	1064.0	1060.6
45°	1872.8	1872.8	1824.5	1688.3	1458.9	1284.8	1252.0	1179.6	1207.2	1227.8	1269.2
47.5°	2041.8	2031.5	2017.7	1902.1	1679.7	1477.9	1464.1	1381.3	1453.8	1517.6	1602.1
50°	2221.2	2207.4	2198.7	2128.0	1969.4	1771.1	1729.7	1643.5	1802.1	1921.1	2078.0
52.5°	2500.5	2476.4	2431.6	2391.9	2329.8	2100.4	2048.7	1984.9	2190.1	2340.2	2660.9
55°	2752.3	2731.6	2688.5	2717.8	2709.2	2500.5	2455.7	2395.3	2617.8	2800.6	3167.9
57.5°	2845.4	2847.2	2905.8	3062.7	3145.5	3024.8	2961.0	2900.6	3088.6	3173.1	3504.2
60°	2888.5	2883.4	3035.1	3290.4	3559.4	3595.6	3514.5	3390.4	3461.1	3466.3	3788.7
62.5°	2795.4	2809.2	3017.9	3385.2	3807.7	4068.1	4056.0	3838.7	3773.2	3700.8	3864.6
65°	2441.9	2460.9	2767.8	3216.2	3847.4	4354.4	4366.4	4112.9	3930.1	3728.4	3649.1
66°	2172.9	2229.8	2571.2	3069.6	3774.9	4383.7	4406.1	4142.3	3923.2	3662.8	3478.3
67.5°	1822.8	1819.4	2200.5	2747.1	3573.2	4357.8	4387.1	4100.9	3830.1	3469.7	3136.9
70°	1115.8	1150.2	1477.9	2050.4	2957.5	4035.3	4075.0	3809.4	3428.3	2938.6	2319.5
72.5°	572.5	629.4	845.0	1333.0	2147.0	3335.2	3469.7	3199.0	2802.3	2126.3	1415.8
75°	303.5	300.1	398.4	722.6	1371.0	2502.3	2573.0	2398.8	1936.6	1267.5	720.8
77.5°	162.1	170.7	208.7	370.8	753.6	1598.6	1688.3	1546.9	1103.7	648.4	344.9
80°	110.4	115.5	141.4	208.7	408.7	867.4	950.2	824.3	577.7	307.0	162.1
82.5°	70.7	74.2	96.6	129.3	244.9	420.8	443.2	422.5	282.8	174.2	98.3
85°	43.1	44.8	58.6	82.8	153.5	170.7	177.6	179.3	158.7	113.8	53.5
87.5°	20.7	22.4	32.8	41.4	72.4	62.1	56.9	58.6	87.9	67.3	24.1
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°	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1	638.1
2.5°	638.1	636.3	632.9	631.2	632.9	632.9	632.9	634.6	638.1	638.1	639.8
5°	638.1	634.6	631.2	631.2	634.6	638.1	641.5	648.4	651.9	653.6	653.6
7.5°	646.7	643.2	639.8	639.8	645.0	651.9	658.8	667.4	676.0	682.9	682.9
10°	663.9	658.8	655.3	657.0	665.7	674.3	682.9	693.3	701.9	710.5	710.5
12.5°	682.9	677.7	672.6	676.0	688.1	698.4	707.0	712.2	720.8	727.7	727.7
15°	701.9	693.3	691.5	698.4	710.5	717.4	720.8	720.8	724.3	731.2	731.2
17.5°	722.6	713.9	712.2	719.1	729.5	729.5	722.6	717.4	715.7	720.8	722.6
20°	743.3	734.6	734.6	739.8	738.1	726.0	713.9	705.3	698.4	703.6	705.3
22.5°	769.1	760.5	757.1	750.2	734.6	710.5	691.5	681.2	676.0	679.5	682.9
25°	795.0	788.1	779.5	755.3	719.1	681.2	657.0	648.4	650.1	657.0	660.5
27.5°	827.8	824.3	803.6	751.9	691.5	639.8	615.6	613.9	620.8	631.2	636.3
30°	867.4	862.3	826.0	741.5	653.6	591.5	574.3	577.7	588.1	596.7	601.9
32.5°	895.0	891.6	836.4	717.4	607.0	548.4	534.6	534.6	539.8	551.8	557.0
35°	903.6	917.4	843.3	681.2	551.8	510.5	496.7	488.0	488.0	498.4	501.8
37.5°	933.0	964.0	846.7	632.9	507.0	476.0	458.7	443.2	438.0	436.3	436.3
40°	1000.2	1036.4	845.0	570.8	463.9	441.5	420.8	403.5	389.7	370.8	372.5
42.5°	1117.5	1145.1	839.8	505.3	426.0	410.4	389.7	369.0	346.6	325.9	324.2
45°	1343.4	1302.0	826.0	448.4	391.5	382.8	363.9	339.7	312.1	293.2	293.2
47.5°	1700.4	1586.5	817.4	394.9	360.4	358.7	341.5	315.6	288.0	274.2	272.5
50°	2190.1	1979.7	831.2	357.0	332.8	338.0	324.2	300.1	277.6	265.6	263.8
52.5°	2752.3	2402.2	846.7	332.8	312.1	322.5	315.6	293.2	270.7	260.4	258.7
55°	3186.9	2745.4	824.3	310.4	291.4	307.0	307.0	286.3	267.3	257.0	257.0
57.5°	3492.1	2883.4	746.7	289.7	274.2	293.2	298.3	282.8	265.6	262.1	262.1
60°	3623.2	2876.5	610.5	270.7	262.1	279.4	293.2	279.4	269.0	277.6	279.4
62.5°	3552.5	2726.4	474.2	257.0	253.5	275.9	298.3	293.2	281.1	288.0	291.4
65°	3233.4	2462.6	357.0	244.9	243.2	277.6	312.1	301.8	272.5	274.2	275.9
66°	3054.1	2285.0	327.7	241.4	239.7	279.4	319.0	298.3	265.6	269.0	267.3
67.5°	2671.3	2005.6	288.0	234.5	232.8	279.4	327.7	291.4	257.0	262.1	257.0
70°	1959.0	1419.3	246.6	225.9	222.5	274.2	325.9	277.6	238.0	234.5	225.9
72.5°	1136.4	858.8	219.0	215.6	206.9	241.4	305.2	255.2	217.3	206.9	198.3
75°	558.7	436.3	194.9	203.5	181.1	212.1	275.9	236.3	200.0	186.2	181.1
77.5°	257.0	220.7	175.9	186.2	160.4	182.8	251.8	215.6	177.6	156.9	151.8
80°	139.7	138.0	148.3	155.2	134.5	160.4	222.5	188.0	150.0	127.6	120.7
82.5°	86.2	87.9	108.6	119.0	105.2	139.7	196.6	156.9	113.8	89.7	91.4
85°	44.8	50.0	72.4	79.3	69.0	103.5	148.3	105.2	63.8	46.6	46.6
87.5°	15.5	20.7	36.2	43.1	37.9	62.1	93.1	50.0	13.8	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)