

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: P1210718

Luminaire Tested: **ARCH3-50-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6114 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

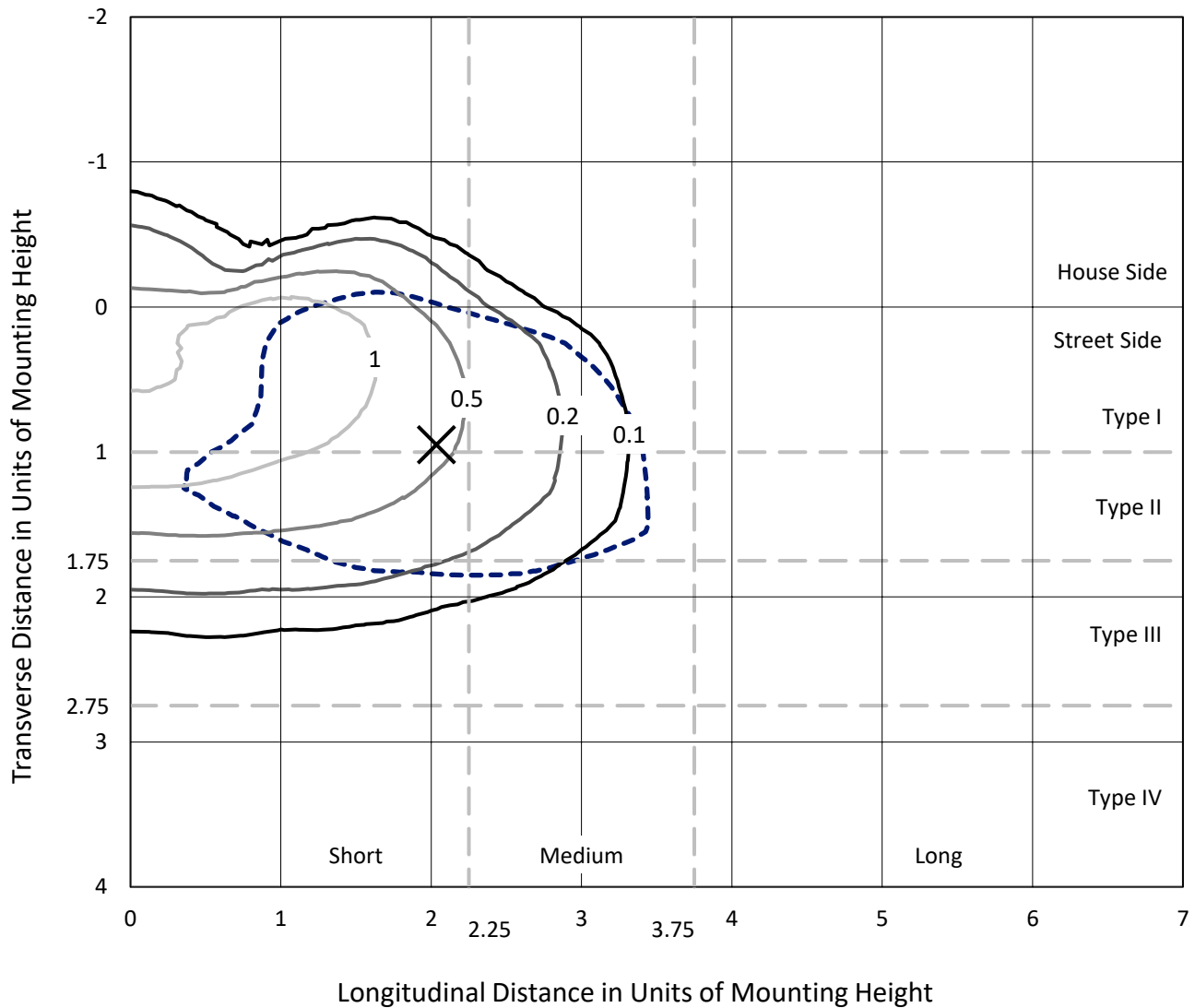
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

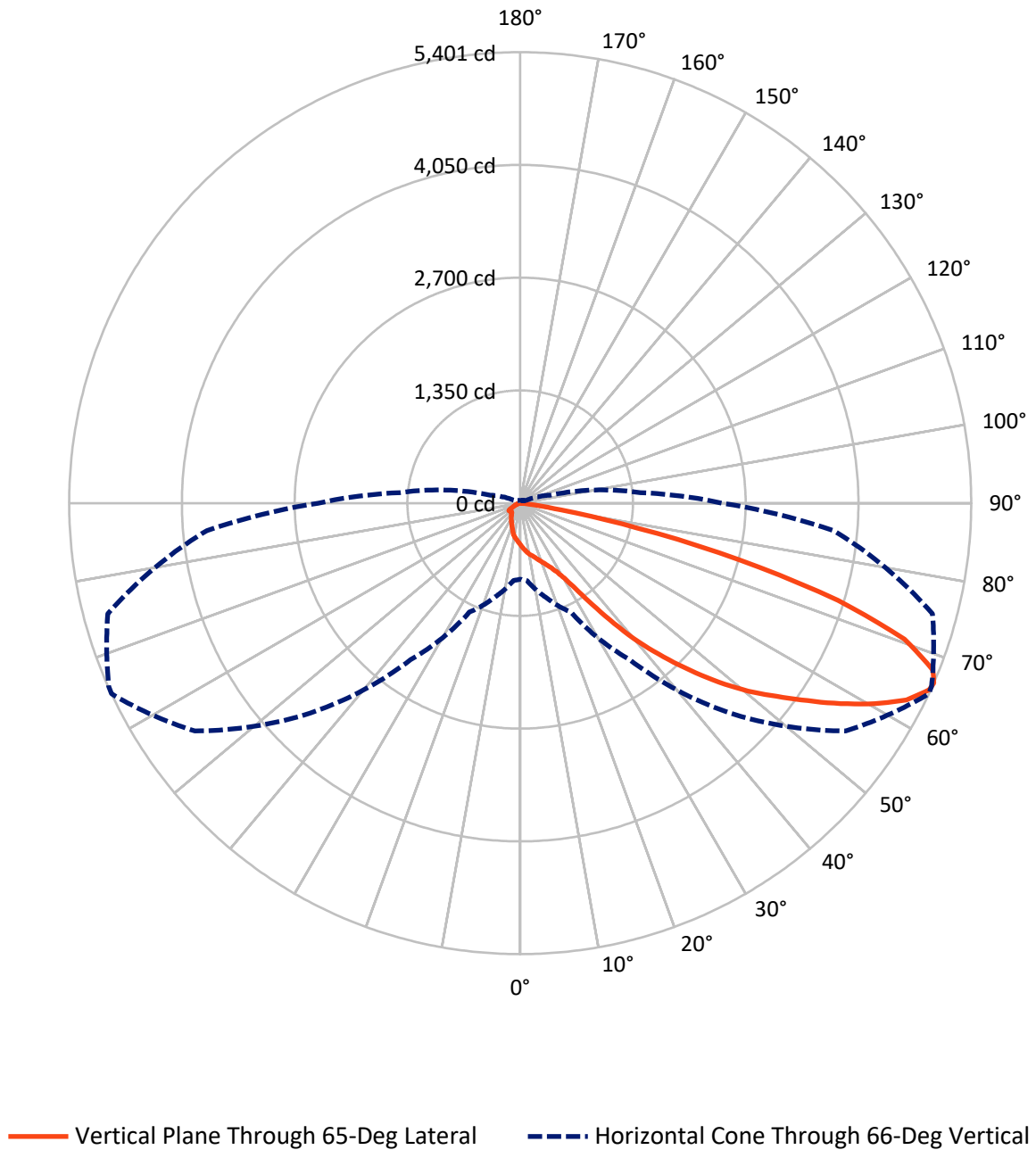
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	721.6	0.0	721.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5392.4	0.0	5392.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	6114.0	0.0	6114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	0.8
10°-20°	139.8	2.3
20°-30°	255.9	4.2
30°-40°	519.9	8.5
40°-50°	1097.9	18.0
50°-60°	1687.8	27.6
60°-70°	1698.9	27.8
70°-80°	634.8	10.4
80°-90°	31.7	0.5
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°	6114.0	100.0
0°-180°	6114.0	100.0

Coefficient of Utilization



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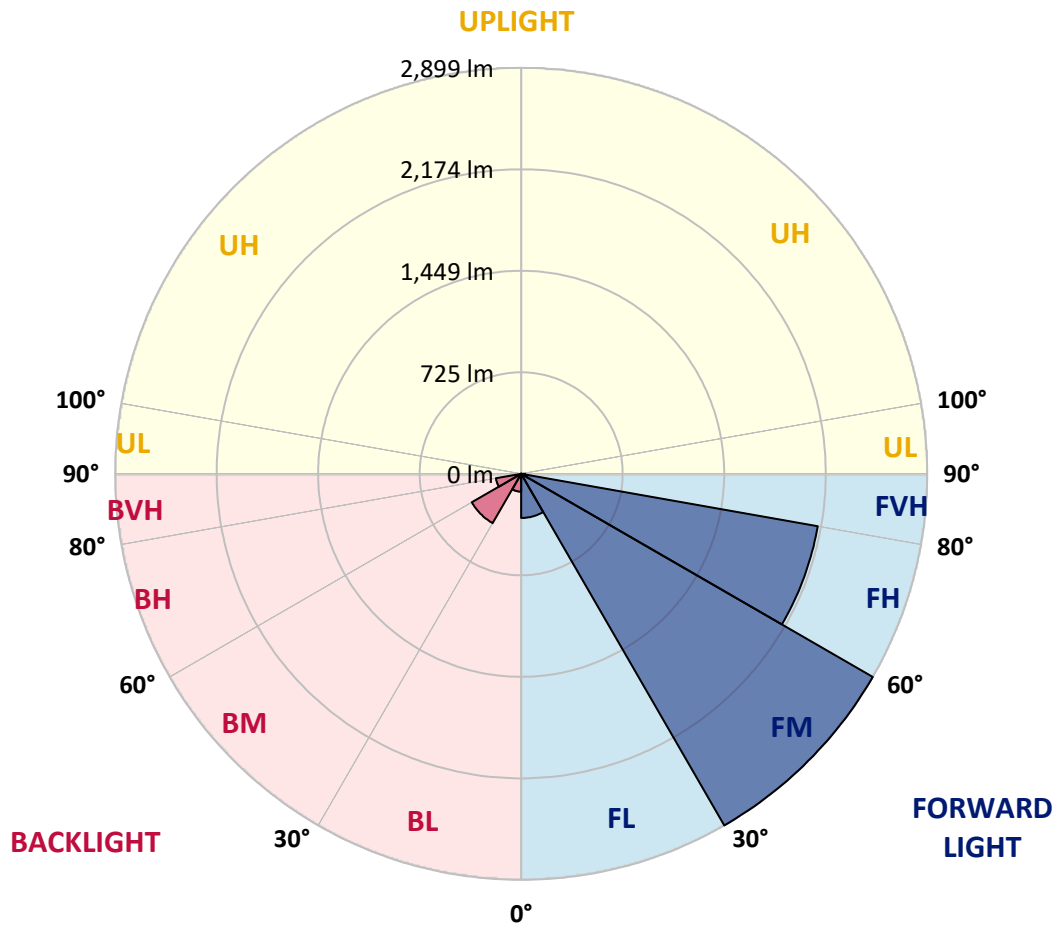
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	315.2	5.2			
FM	(30°-60°)	2898.8	47.4			
FH	(60°-80°)	2150.4	35.2			G2/5000
FVH	(80°-90°)	28.0	0.5			G1/100
BL	(0°-30°)	127.7	2.1	B1/500		
BM	(30°-60°)	406.8	6.7	B1/1000		
BH	(60°-80°)	183.3	3.0	B1/500		G1/500
BVH	(80°-90°)	3.7	0.1			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	568.0	569.1	566.9	562.5	558.0	552.5	543.6	529.2	527.0	517.0	505.9
5°	606.8	609.1	605.7	604.6	602.4	594.6	582.4	561.4	559.1	539.2	513.7
7.5°	620.2	623.5	621.3	621.3	621.3	617.9	612.4	593.5	590.2	564.7	525.9
10°	630.1	632.4	631.2	635.7	639.0	636.8	633.5	622.4	619.0	593.5	542.5
12.5°	645.7	646.8	647.9	650.1	655.7	657.9	656.8	646.8	644.6	626.8	563.6
15°	660.1	660.1	661.2	671.2	679.0	683.4	684.5	676.7	674.5	660.1	590.2
17.5°	673.4	674.5	677.8	688.9	702.2	711.1	716.7	713.3	710.0	698.9	621.3
20°	693.4	695.6	698.9	714.5	727.8	742.2	753.3	752.2	751.1	743.3	657.9
22.5°	727.8	730.0	735.5	750.0	763.3	781.0	799.9	798.8	795.4	789.9	701.1
25°	779.9	779.9	783.2	795.4	812.1	833.2	850.9	854.2	850.9	847.6	755.5
27.5°	845.4	846.5	846.5	859.8	875.3	901.9	924.1	927.5	927.5	924.1	828.7
30°	936.3	933.0	930.8	941.9	958.5	997.3	1036.2	1042.8	1039.5	1045.1	931.9
32.5°	1092.8	1087.2	1068.3	1070.6	1080.6	1133.8	1199.3	1222.6	1221.4	1231.4	1098.3
35°	1309.1	1298.0	1270.3	1247.0	1245.9	1303.5	1403.4	1491.0	1489.9	1524.3	1351.2
37.5°	1553.2	1567.6	1515.4	1475.5	1463.3	1508.8	1637.5	1827.2	1837.2	1897.1	1683.0
40°	1879.3	1888.2	1821.6	1765.0	1707.4	1724.0	1893.7	2188.8	2206.6	2273.2	2014.7
42.5°	2163.3	2172.2	2133.4	2064.6	1991.4	1960.3	2152.2	2517.2	2531.6	2623.7	2356.4
45°	2356.4	2363.0	2376.3	2383.0	2299.8	2235.4	2468.4	2854.5	2872.2	2978.7	2690.3
47.5°	2507.2	2512.8	2539.4	2606.0	2589.3	2538.3	2790.1	3205.0	3209.5	3328.2	3015.3
50°	2577.1	2590.4	2655.9	2758.0	2831.2	2845.6	3139.6	3536.8	3549.0	3662.1	3322.6
52.5°	2499.5	2503.9	2669.2	2861.1	3008.7	3155.1	3490.2	3844.1	3879.6	3963.9	3598.9
55°	2237.7	2269.8	2520.5	2857.8	3148.5	3449.1	3865.1	4175.8	4207.9	4261.2	3841.8
57.5°	1933.7	1969.2	2274.3	2714.7	3208.4	3720.9	4212.4	4528.6	4550.7	4565.2	4064.8
60°	1670.8	1704.0	2018.0	2440.7	3148.5	3912.8	4535.2	4879.1	4898.0	4859.2	4176.9
62.5°	1347.9	1381.2	1697.4	2077.9	2913.3	3951.7	4774.8	5190.9	5198.6	5093.2	4108.1
65°	1016.2	1038.4	1302.4	1628.6	2501.7	3745.3	4829.2	5385.0	5377.2	5160.9	3901.7
66°	910.8	929.7	1162.6	1440.0	2287.6	3556.7	4756.0	5400.5	5392.8	5111.0	3766.4
67.5°	785.5	791.0	982.9	1178.2	1913.7	3156.2	4533.0	5329.5	5336.2	4973.4	3519.0
70°	613.5	612.4	723.3	819.8	1306.9	2245.4	3780.8	4882.5	4914.6	4454.2	3000.9
72.5°	392.7	379.4	443.8	501.4	761.0	1303.5	2756.9	3979.4	4033.8	3499.0	2235.4
75°	234.1	220.8	236.3	250.7	365.0	626.8	1620.8	2708.0	2760.2	2243.2	1330.2
77.5°	175.3	169.7	170.8	158.6	162.0	235.2	740.0	1431.1	1468.8	918.6	504.8
80°	134.2	119.8	112.0	117.6	106.5	93.2	275.1	492.6	515.9	217.4	105.4
82.5°	89.9	77.7	72.1	78.8	67.7	52.1	66.6	95.4	93.2	58.8	41.0
85°	46.6	39.9	39.9	39.9	34.4	25.5	28.8	38.8	38.8	31.1	24.4
87.5°	13.3	12.2	14.4	13.3	10.0	10.0	11.1	13.3	13.3	12.2	11.1
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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	497.0	492.6	480.4	471.5	462.6	454.9	446.0	443.8	439.3	440.4	438.2
5°	500.3	488.1	467.1	447.1	431.6	418.2	401.6	394.9	386.1	382.7	380.5
7.5°	504.8	487.0	456.0	428.2	401.6	375.0	348.4	332.8	322.8	318.4	315.1
10°	514.8	491.5	450.4	407.1	361.7	323.9	297.3	286.2	279.6	278.5	277.3
12.5°	528.1	498.1	444.9	380.5	320.6	285.1	268.5	265.1	264.0	264.0	262.9
15°	548.0	509.2	436.0	349.5	288.4	264.0	256.3	250.7	248.5	248.5	248.5
17.5°	568.0	522.5	422.7	317.3	266.3	250.7	243.0	239.6	237.4	238.5	237.4
20°	593.5	538.1	404.9	289.6	251.8	239.6	231.9	228.5	227.4	227.4	227.4
22.5°	622.4	555.8	382.7	268.5	239.6	228.5	220.8	217.4	215.2	216.3	216.3
25°	661.2	578.0	359.4	247.4	227.4	217.4	208.6	204.1	204.1	205.2	206.3
27.5°	711.1	604.6	336.1	234.1	216.3	206.3	196.4	191.9	193.0	195.3	195.3
30°	784.3	641.2	312.8	219.7	204.1	193.0	184.2	179.7	181.9	186.4	186.4
32.5°	888.6	701.1	292.9	203.0	186.4	174.2	165.3	162.0	167.5	176.4	176.4
35°	1075.0	811.0	280.7	186.4	167.5	153.1	142.0	138.7	146.4	157.5	157.5
37.5°	1324.6	987.4	285.1	172.0	152.0	135.3	123.1	118.7	124.3	134.2	137.6
40°	1603.1	1200.4	323.9	159.8	137.6	120.9	108.7	104.3	107.6	112.0	113.2
42.5°	1881.5	1426.7	397.2	150.9	126.5	108.7	97.6	94.3	96.5	97.6	98.7
45°	2158.9	1650.8	489.2	145.3	116.5	98.7	87.6	87.6	88.8	88.8	88.8
47.5°	2421.8	1869.3	585.8	144.2	107.6	88.8	79.9	81.0	81.0	82.1	82.1
50°	2670.3	2064.6	683.4	147.5	99.8	79.9	73.2	73.2	73.2	74.3	73.2
52.5°	2877.8	2235.4	785.5	153.1	92.1	73.2	66.6	66.6	66.6	67.7	66.6
55°	3074.1	2390.7	889.7	160.9	85.4	67.7	61.0	58.8	58.8	59.9	58.8
57.5°	3233.9	2493.9	988.5	162.0	79.9	62.1	56.6	53.3	53.3	53.3	53.3
60°	3240.5	2434.0	1017.3	142.0	73.2	56.6	51.0	46.6	47.7	47.7	47.7
62.5°	3028.7	2118.9	817.6	106.5	65.5	51.0	46.6	42.2	42.2	42.2	42.2
65°	2612.6	1648.6	479.3	84.3	56.6	45.5	41.0	37.7	37.7	37.7	36.6
66°	2417.4	1445.5	367.2	76.5	53.3	44.4	39.9	36.6	35.5	34.4	34.4
67.5°	2099.0	1142.7	229.6	67.7	48.8	41.0	36.6	33.3	32.2	31.1	31.1
70°	1580.9	725.5	112.0	52.1	42.2	35.5	32.2	28.8	27.7	26.6	25.5
72.5°	1109.4	424.9	58.8	39.9	34.4	31.1	27.7	24.4	23.3	22.2	22.2
75°	626.8	205.2	38.8	28.8	27.7	25.5	23.3	20.0	18.9	18.9	18.9
77.5°	237.4	71.0	26.6	21.1	22.2	20.0	16.6	16.6	15.5	16.6	15.5
80°	62.1	31.1	16.6	15.5	16.6	14.4	12.2	13.3	13.3	13.3	13.3
82.5°	33.3	17.8	10.0	11.1	10.0	10.0	7.8	8.9	10.0	8.9	10.0
85°	23.3	8.9	5.5	5.5	4.4	4.4	3.3	4.4	5.5	4.4	4.4
87.5°	12.2	3.3	3.3	3.3	3.3	2.2	1.1	0.0	1.1	1.1	1.1
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)