

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: P1210778

Luminaire Tested: **ARCH3-70-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210778
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: ARCH3-70-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA 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: 7875 lumens
Efficiency: N/A
Efficacy: 107.7 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): 73.1
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

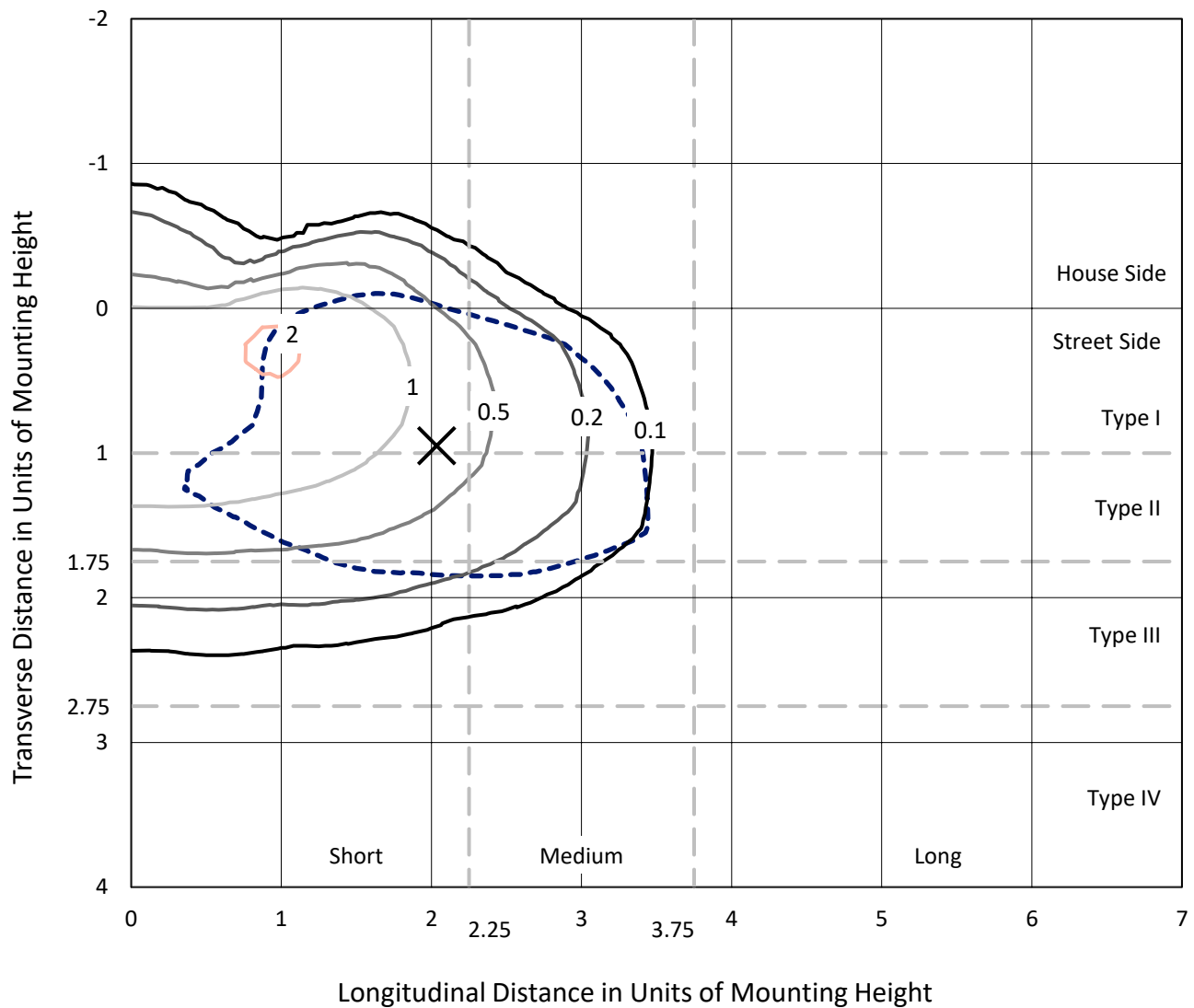


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Iso-Footcandle Lines of Horizontal Illumination

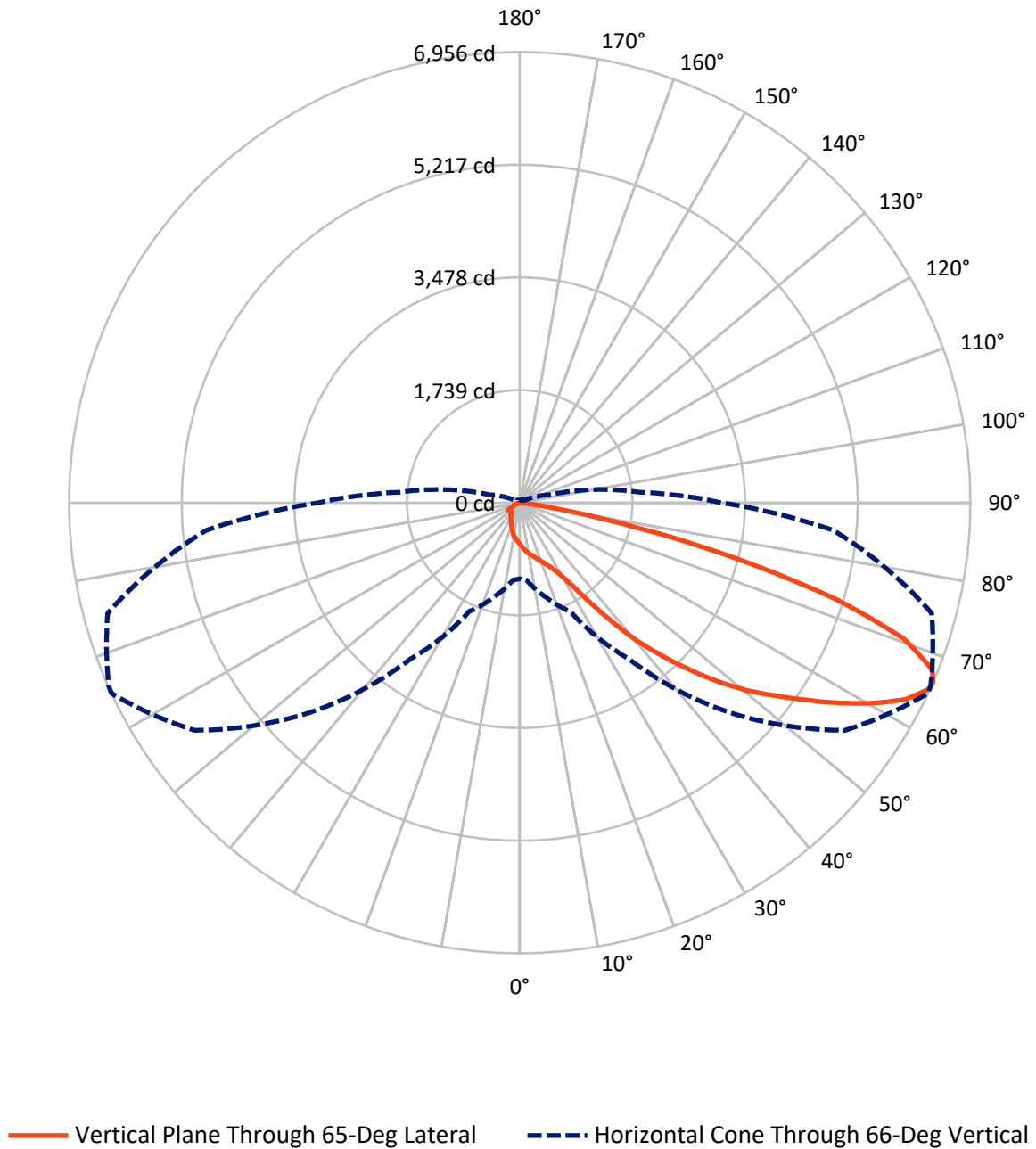
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	929.4	0.0	929.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6945.6	0.0	6945.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	7875.0	0.0	7875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	0.8
10°-20°	180.1	2.3
20°-30°	329.6	4.2
30°-40°	669.7	8.5
40°-50°	1414.1	18.0
50°-60°	2174.0	27.6
60°-70°	2188.3	27.8
70°-80°	817.7	10.4
80°-90°	40.8	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°	7875.0	100.0
0°-180°	7875.0	100.0

Coefficient of Utilization



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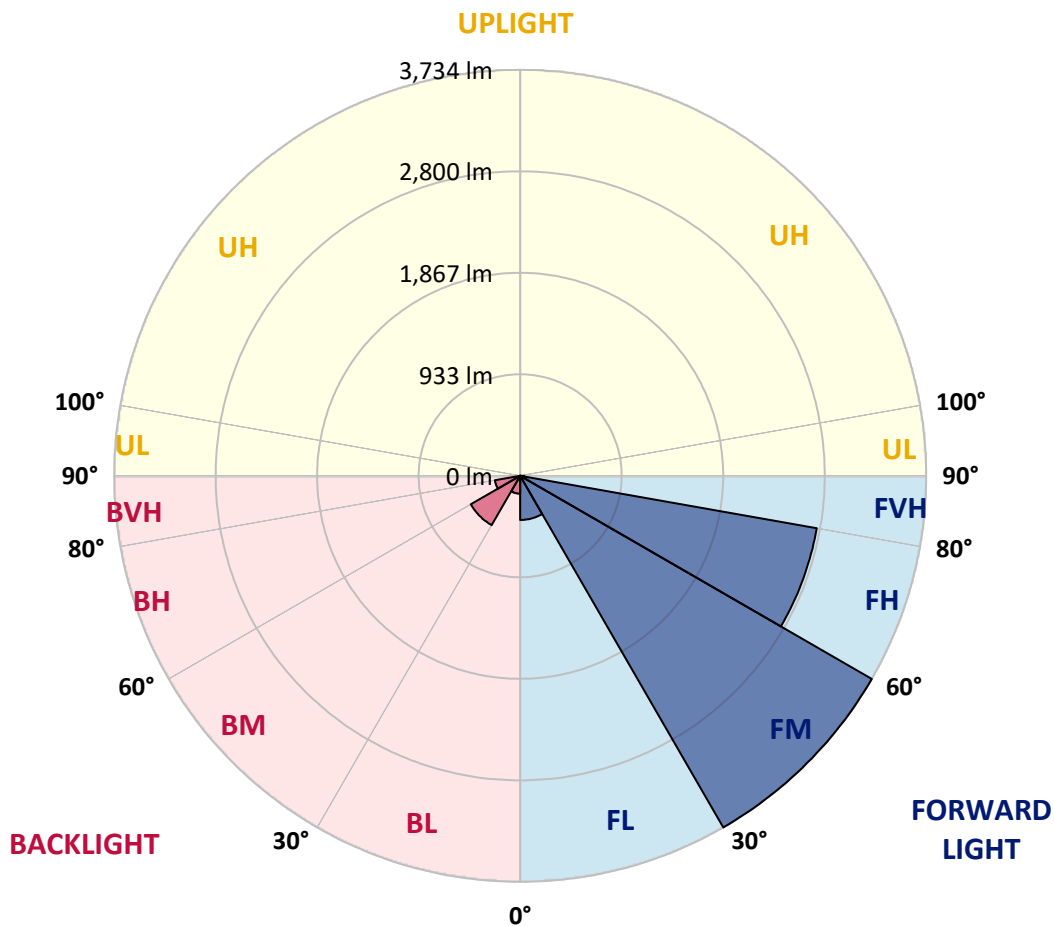
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.9	5.2			
FM	(30°-60°)	3733.8	47.4			
FH	(60°-80°)	2769.8	35.2			G2/5000
FVH	(80°-90°)	36.0	0.5			G1/100
BL	(0°-30°)	164.5	2.1	B1/500		
BM	(30°-60°)	524.0	6.7	B1/1000		
BH	(60°-80°)	236.1	3.0	B1/500		G1/500
BVH	(80°-90°)	4.8	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°	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
2.5°	731.6	733.0	730.2	724.5	718.8	711.6	700.2	681.6	678.7	665.9	651.6
5°	781.6	784.5	780.2	778.8	775.9	765.9	750.2	723.0	720.2	694.5	661.6
7.5°	798.8	803.1	800.2	800.2	800.2	795.9	788.8	764.5	760.2	727.3	677.3
10°	811.6	814.5	813.1	818.8	823.1	820.2	815.9	801.6	797.3	764.5	698.7
12.5°	831.6	833.1	834.5	837.4	844.5	847.4	845.9	833.1	830.2	807.3	725.9
15°	850.2	850.2	851.6	864.5	874.5	880.2	881.7	871.6	868.8	850.2	760.2
17.5°	867.4	868.8	873.1	887.4	904.5	915.9	923.1	918.8	914.5	900.2	800.2
20°	893.1	895.9	900.2	920.2	937.4	956.0	970.2	968.8	967.4	957.4	847.4
22.5°	937.4	940.2	947.4	966.0	983.1	1006.0	1030.3	1028.8	1024.5	1017.4	903.1
25°	1004.5	1004.5	1008.8	1024.5	1046.0	1073.1	1096.0	1100.3	1096.0	1091.7	973.1
27.5°	1088.8	1090.3	1090.3	1107.4	1127.4	1161.7	1190.3	1194.6	1194.6	1190.3	1067.4
30°	1206.0	1201.7	1198.9	1213.2	1234.6	1284.6	1334.6	1343.2	1338.9	1346.1	1200.3
32.5°	1407.5	1400.4	1376.1	1378.9	1391.8	1460.4	1544.7	1574.7	1573.3	1586.1	1414.6
35°	1686.1	1671.9	1636.1	1606.1	1604.7	1679.0	1807.6	1920.5	1919.1	1963.4	1740.4
37.5°	2000.5	2019.1	1951.9	1900.5	1884.8	1943.3	2109.1	2353.5	2366.3	2443.5	2167.7
40°	2420.6	2432.0	2346.3	2273.4	2199.1	2220.6	2439.2	2819.3	2842.1	2927.9	2594.9
42.5°	2786.4	2797.9	2747.8	2659.2	2564.9	2524.9	2772.1	3242.2	3260.8	3379.4	3035.1
45°	3035.1	3043.6	3060.8	3069.3	2962.2	2879.3	3179.4	3676.6	3699.5	3836.7	3465.2
47.5°	3229.4	3236.5	3270.8	3356.6	3335.1	3269.4	3593.8	4128.2	4133.9	4286.8	3883.8
50°	3319.4	3336.6	3420.9	3552.3	3646.6	3665.2	4043.9	4555.4	4571.2	4716.9	4279.7
52.5°	3219.4	3225.1	3438.0	3685.2	3875.3	4063.9	4495.4	4951.3	4997.0	5105.6	4635.5
55°	2882.2	2923.6	3246.5	3680.9	4055.3	4442.6	4978.4	5378.5	5419.9	5488.5	4948.4
57.5°	2490.6	2536.4	2929.3	3496.6	4132.5	4792.6	5425.7	5832.9	5861.5	5880.1	5235.6
60°	2152.0	2194.8	2599.2	3143.7	4055.3	5039.8	5841.5	6284.4	6308.7	6258.7	5379.9
62.5°	1736.2	1779.0	2186.3	2676.4	3752.4	5089.9	6150.1	6686.0	6696.0	6560.2	5291.3
65°	1308.9	1337.5	1677.6	2097.7	3222.2	4824.1	6220.1	6936.0	6926.0	6647.4	5025.6
66°	1173.2	1197.4	1497.5	1854.8	2946.5	4581.2	6125.8	6956.0	6946.0	6583.1	4851.2
67.5°	1011.7	1018.8	1266.0	1517.5	2464.9	4065.3	5838.6	6864.6	6873.2	6405.9	4532.6
70°	790.2	788.8	931.7	1056.0	1683.3	2892.2	4869.8	6288.7	6330.2	5737.2	3865.3
72.5°	505.8	488.7	571.6	645.9	980.2	1679.0	3550.9	5125.6	5195.6	4506.9	2879.3
75°	301.5	284.4	304.4	322.9	470.1	807.3	2087.7	3488.0	3555.2	2889.3	1713.3
77.5°	225.8	218.6	220.1	204.3	208.6	302.9	953.1	1843.3	1891.9	1183.2	650.2
80°	172.9	154.3	144.3	151.5	137.2	120.0	354.4	634.4	664.5	280.1	135.7
82.5°	115.7	100.0	92.9	101.5	87.2	67.2	85.7	122.9	120.0	75.7	52.9
85°	60.0	51.4	51.4	51.4	44.3	32.9	37.2	50.0	50.0	40.0	31.4
87.5°	17.1	15.7	18.6	17.1	12.9	12.9	14.3	17.1	17.1	15.7	14.3
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°	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6	641.6
2.5°	640.2	634.4	618.7	607.3	595.9	585.9	574.4	571.6	565.9	567.3	564.4
5°	644.4	628.7	601.6	575.9	555.9	538.7	517.3	508.7	497.3	493.0	490.1
7.5°	650.2	627.3	587.3	551.6	517.3	483.0	448.7	428.7	415.8	410.1	405.8
10°	663.0	633.0	580.1	524.4	465.8	417.2	383.0	368.7	360.1	358.7	357.2
12.5°	680.2	641.6	573.0	490.1	413.0	367.2	345.8	341.5	340.1	340.1	338.7
15°	705.9	655.9	561.6	450.1	371.5	340.1	330.1	322.9	320.1	320.1	320.1
17.5°	731.6	673.0	544.4	408.7	342.9	322.9	312.9	308.6	305.8	307.2	305.8
20°	764.5	693.0	521.6	373.0	324.4	308.6	298.6	294.4	292.9	292.9	292.9
22.5°	801.6	715.9	493.0	345.8	308.6	294.4	284.4	280.1	277.2	278.6	278.6
25°	851.6	744.5	463.0	318.7	292.9	280.1	268.6	262.9	262.9	264.4	265.8
27.5°	915.9	778.8	433.0	301.5	278.6	265.8	252.9	247.2	248.6	251.5	251.5
30°	1010.3	825.9	403.0	282.9	262.9	248.6	237.2	231.5	234.3	240.1	240.1
32.5°	1144.6	903.1	377.2	261.5	240.1	224.3	212.9	208.6	215.8	227.2	227.2
35°	1384.6	1044.6	361.5	240.1	215.8	197.2	182.9	178.6	188.6	202.9	202.9
37.5°	1706.1	1271.8	367.2	221.5	195.8	174.3	158.6	152.9	160.0	172.9	177.2
40°	2064.8	1546.1	417.2	205.8	177.2	155.8	140.0	134.3	138.6	144.3	145.8
42.5°	2423.5	1837.6	511.6	194.3	162.9	140.0	125.7	121.5	124.3	125.7	127.2
45°	2780.7	2126.3	630.2	187.2	150.0	127.2	112.9	112.9	114.3	114.3	114.3
47.5°	3119.4	2407.8	754.5	185.8	138.6	114.3	102.9	104.3	104.3	105.7	105.7
50°	3439.4	2659.2	880.2	190.0	128.6	102.9	94.3	94.3	94.3	95.7	94.3
52.5°	3706.7	2879.3	1011.7	197.2	118.6	94.3	85.7	85.7	85.7	87.2	85.7
55°	3959.6	3079.4	1146.0	207.2	110.0	87.2	78.6	75.7	75.7	77.2	75.7
57.5°	4165.3	3212.2	1273.2	208.6	102.9	80.0	72.9	68.6	68.6	68.6	68.6
60°	4173.9	3135.1	1310.3	182.9	94.3	72.9	65.7	60.0	61.4	61.4	61.4
62.5°	3901.0	2729.3	1053.1	137.2	84.3	65.7	60.0	54.3	54.3	54.3	54.3
65°	3365.1	2123.4	617.3	108.6	72.9	58.6	52.9	48.6	48.6	48.6	47.2
66°	3113.6	1861.9	473.0	98.6	68.6	57.2	51.4	47.2	45.7	44.3	44.3
67.5°	2703.5	1471.8	295.8	87.2	62.9	52.9	47.2	42.9	41.4	40.0	40.0
70°	2036.2	934.5	144.3	67.2	54.3	45.7	41.4	37.2	35.7	34.3	32.9
72.5°	1428.9	547.3	75.7	51.4	44.3	40.0	35.7	31.4	30.0	28.6	28.6
75°	807.3	264.4	50.0	37.2	35.7	32.9	30.0	25.7	24.3	24.3	24.3
77.5°	305.8	91.5	34.3	27.1	28.6	25.7	21.4	21.4	20.0	21.4	20.0
80°	80.0	40.0	21.4	20.0	21.4	18.6	15.7	17.1	17.1	17.1	17.1
82.5°	42.9	22.9	12.9	14.3	12.9	12.9	10.0	11.4	12.9	11.4	12.9
85°	30.0	11.4	7.1	7.1	5.7	5.7	4.3	5.7	7.1	5.7	5.7
87.5°	15.7	4.3	4.3	4.3	4.3	2.9	1.4	0.0	1.4	1.4	1.4
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)