

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: P1211638

Luminaire Tested: **ARCH4-70-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211638
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: ARCH4-70-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7722 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

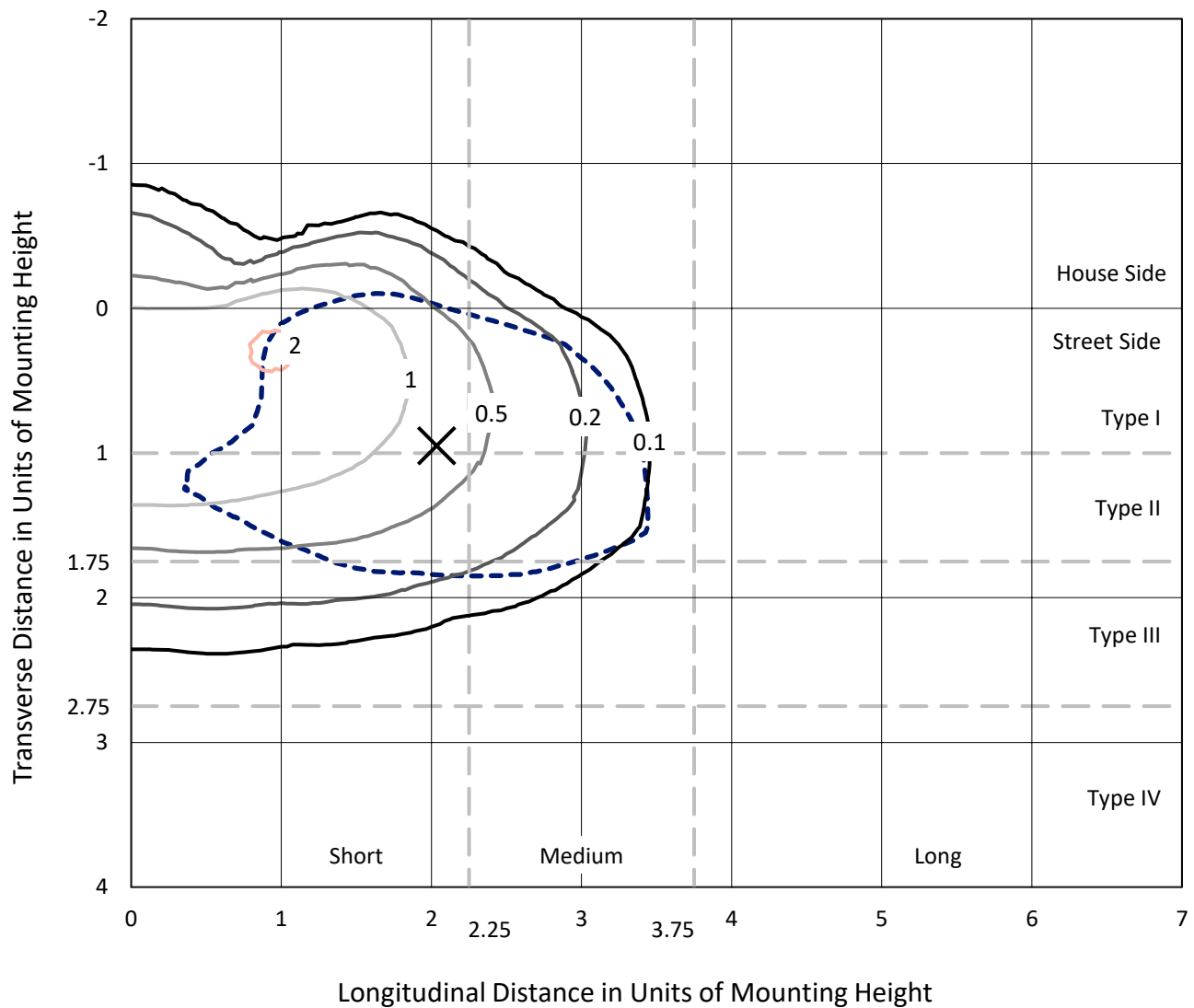


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Iso-Footcandle Lines of Horizontal Illumination

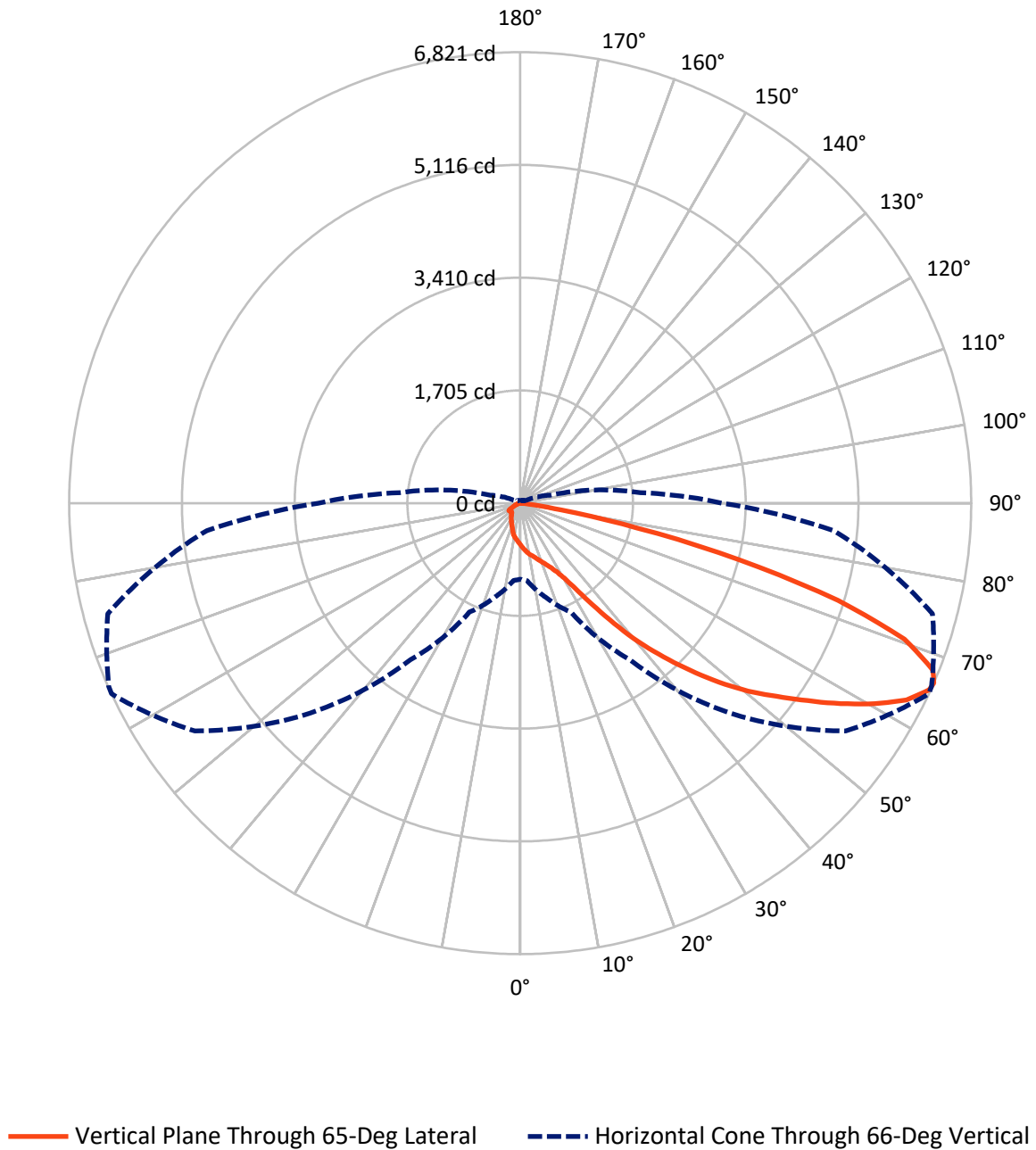
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	911.3	0.0	911.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6810.6	0.0	6810.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	7722.0	0.0	7722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	0.8
10°-20°	176.6	2.3
20°-30°	323.2	4.2
30°-40°	656.6	8.5
40°-50°	1386.7	18.0
50°-60°	2131.8	27.6
60°-70°	2145.8	27.8
70°-80°	801.8	10.4
80°-90°	40.0	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°	7722.0	100.0
0°-180°	7722.0	100.0

Coefficient of Utilization



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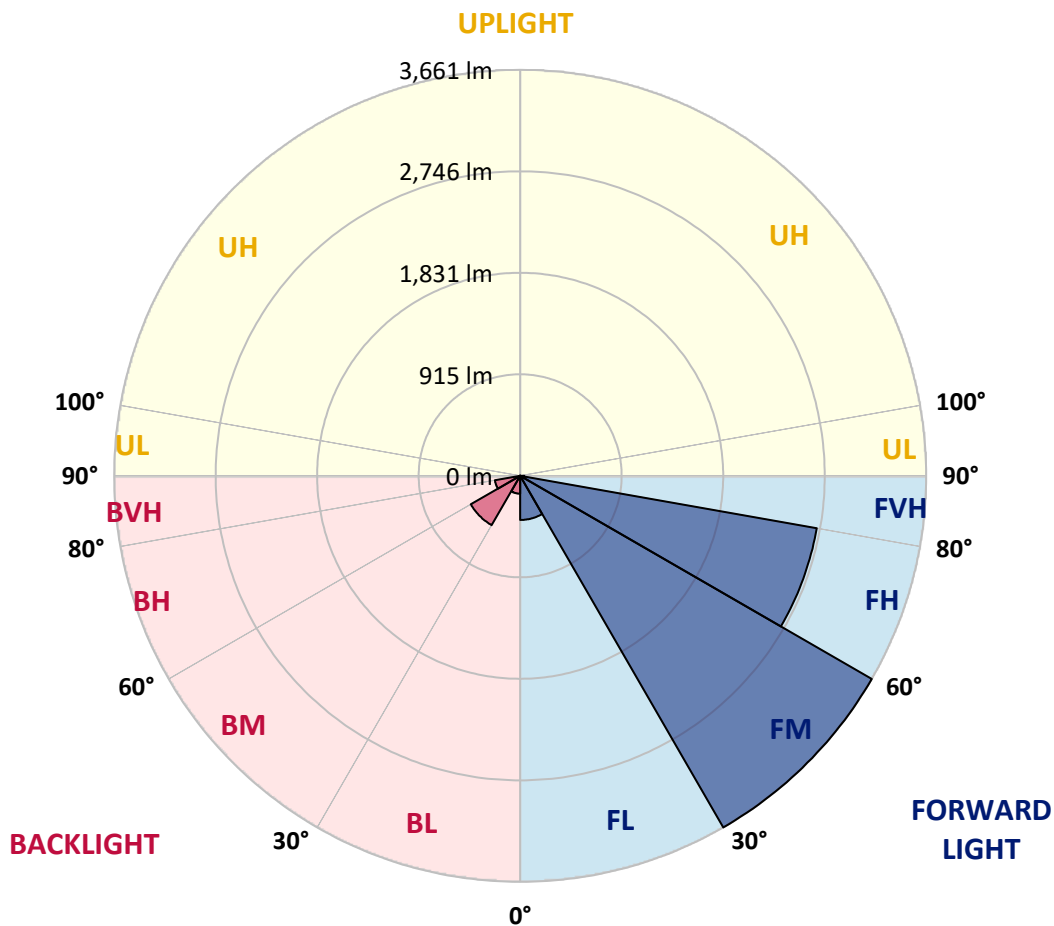
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.1	5.2			
FM	(30°-60°)	3661.2	47.4			
FH	(60°-80°)	2716.0	35.2			G2/5000
FVH	(80°-90°)	35.3	0.5			G1/100
BL	(0°-30°)	161.3	2.1	B1/500		
BM	(30°-60°)	513.8	6.7	B1/1000		
BH	(60°-80°)	231.5	3.0	B1/500		G1/500
BVH	(80°-90°)	4.7	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°	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
2.5°	717.4	718.8	716.0	710.4	704.8	697.8	686.6	668.4	665.6	652.9	638.9
5°	766.4	769.2	765.0	763.6	760.8	751.0	735.6	709.0	706.2	681.0	648.7
7.5°	783.3	787.5	784.7	784.7	784.7	780.5	773.4	749.6	745.4	713.2	664.2
10°	795.9	798.7	797.3	802.9	807.1	804.3	800.1	786.1	781.9	749.6	685.2
12.5°	815.5	816.9	818.3	821.1	828.1	830.9	829.5	816.9	814.1	791.7	711.8
15°	833.7	833.7	835.1	847.7	857.5	863.1	864.5	854.7	851.9	833.7	745.4
17.5°	850.5	851.9	856.1	870.1	886.9	898.2	905.2	901.0	896.7	882.7	784.7
20°	875.7	878.5	882.7	902.4	919.2	937.4	951.4	950.0	948.6	938.8	830.9
22.5°	919.2	922.0	929.0	947.2	964.0	986.4	1010.2	1008.8	1004.6	997.6	885.5
25°	985.0	985.0	989.2	1004.6	1025.7	1052.3	1074.7	1078.9	1074.7	1070.5	954.2
27.5°	1067.7	1069.1	1069.1	1085.9	1105.5	1139.2	1167.2	1171.4	1171.4	1167.2	1046.7
30°	1182.6	1178.4	1175.6	1189.6	1210.6	1259.7	1308.7	1317.1	1312.9	1319.9	1177.0
32.5°	1380.2	1373.1	1349.3	1352.1	1364.7	1432.0	1514.7	1544.1	1542.7	1555.3	1387.2
35°	1653.4	1639.4	1604.3	1574.9	1573.5	1646.4	1772.5	1883.2	1881.8	1925.2	1706.6
37.5°	1961.6	1979.9	1914.0	1863.6	1848.1	1905.6	2068.1	2307.7	2320.3	2396.0	2125.6
40°	2373.6	2384.8	2300.7	2229.3	2156.4	2177.4	2391.8	2764.5	2786.9	2871.0	2544.5
42.5°	2732.3	2743.5	2694.5	2607.6	2515.1	2475.9	2718.3	3179.3	3197.5	3313.8	2976.1
45°	2976.1	2984.5	3001.3	3009.7	2904.6	2823.4	3117.6	3605.2	3627.6	3762.1	3397.8
47.5°	3166.6	3173.7	3207.3	3291.4	3270.3	3205.9	3523.9	4048.0	4053.6	4203.5	3808.4
50°	3254.9	3271.7	3354.4	3483.3	3575.8	3594.0	3965.3	4466.9	4482.3	4625.3	4196.5
52.5°	3156.8	3162.4	3371.2	3613.6	3800.0	3984.9	4408.1	4855.1	4899.9	5006.4	4545.4
55°	2826.2	2866.8	3183.5	3609.4	3976.5	4356.2	4881.7	5274.0	5314.6	5381.9	4852.3
57.5°	2442.2	2487.1	2872.4	3428.7	4052.2	4699.5	5320.2	5719.6	5747.6	5765.8	5133.9
60°	2110.2	2152.2	2548.7	3082.6	3976.5	4941.9	5728.0	6162.3	6186.2	6137.1	5275.4
62.5°	1702.4	1744.5	2143.8	2624.4	3679.5	4991.0	6030.6	6556.1	6565.9	6432.8	5188.5
65°	1283.5	1311.5	1645.0	2056.9	3159.6	4730.4	6099.3	6801.3	6791.5	6518.2	4927.9
66°	1150.4	1174.2	1468.4	1818.7	2889.2	4492.2	6006.8	6820.9	6811.1	6455.2	4757.0
67.5°	992.0	999.0	1241.4	1488.0	2417.0	3986.3	5725.2	6731.2	6739.6	6281.4	4444.5
70°	774.8	773.4	913.6	1035.5	1650.6	2836.0	4775.2	6166.6	6207.2	5625.7	3790.2
72.5°	496.0	479.2	560.5	633.3	961.2	1646.4	3481.9	5026.0	5094.7	4419.3	2823.4
75°	295.6	278.8	298.4	316.7	461.0	791.7	2047.1	3420.3	3486.1	2833.2	1680.0
77.5°	221.4	214.4	215.8	200.4	204.6	297.0	934.6	1807.5	1855.2	1160.2	637.5
80°	169.5	151.3	141.5	148.5	134.5	117.7	347.5	622.1	651.5	274.6	133.1
82.5°	113.5	98.1	91.1	99.5	85.5	65.9	84.1	120.5	117.7	74.3	51.8
85°	58.8	50.4	50.4	50.4	43.4	32.2	36.4	49.0	49.0	39.2	30.8
87.5°	16.8	15.4	18.2	16.8	12.6	12.6	14.0	16.8	16.8	15.4	14.0
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°	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
2.5°	627.7	622.1	606.7	595.5	584.3	574.5	563.3	560.5	554.9	556.3	553.5
5°	631.9	616.5	589.9	564.7	545.1	528.2	507.2	498.8	487.6	483.4	480.6
7.5°	637.5	615.1	575.9	540.9	507.2	473.6	440.0	420.4	407.7	402.1	397.9
10°	650.1	620.7	568.9	514.2	456.8	409.1	375.5	361.5	353.1	351.7	350.3
12.5°	667.0	629.1	561.9	480.6	404.9	360.1	339.1	334.9	333.5	333.5	332.1
15°	692.2	643.1	550.7	441.4	364.3	333.5	323.7	316.7	313.9	313.9	313.9
17.5°	717.4	660.0	533.8	400.7	336.3	316.7	306.9	302.7	299.9	301.3	299.9
20°	749.6	679.6	511.4	365.7	318.1	302.7	292.8	288.6	287.2	287.2	287.2
22.5°	786.1	702.0	483.4	339.1	302.7	288.6	278.8	274.6	271.8	273.2	273.2
25°	835.1	730.0	454.0	312.5	287.2	274.6	263.4	257.8	257.8	259.2	260.6
27.5°	898.2	763.6	424.6	295.6	273.2	260.6	248.0	242.4	243.8	246.6	246.6
30°	990.6	809.9	395.1	277.4	257.8	243.8	232.6	227.0	229.8	235.4	235.4
32.5°	1122.3	885.5	369.9	256.4	235.4	220.0	208.8	204.6	211.6	222.8	222.8
35°	1357.7	1024.3	354.5	235.4	211.6	193.4	179.3	175.1	185.0	199.0	199.0
37.5°	1673.0	1247.0	360.1	217.2	192.0	170.9	155.5	149.9	156.9	169.5	173.7
40°	2024.7	1516.1	409.1	201.8	173.7	152.7	137.3	131.7	135.9	141.5	142.9
42.5°	2376.4	1801.9	501.6	190.6	159.7	137.3	123.3	119.1	121.9	123.3	124.7
45°	2726.7	2084.9	617.9	183.6	147.1	124.7	110.7	110.7	112.1	112.1	112.1
47.5°	3058.8	2361.0	739.8	182.2	135.9	112.1	100.9	102.3	102.3	103.7	103.7
50°	3372.6	2607.6	863.1	186.4	126.1	100.9	92.5	92.5	92.5	93.9	92.5
52.5°	3634.6	2823.4	992.0	193.4	116.3	92.5	84.1	84.1	84.1	85.5	84.1
55°	3882.6	3019.5	1123.7	203.2	107.9	85.5	77.1	74.3	74.3	75.7	74.3
57.5°	4084.4	3149.8	1248.4	204.6	100.9	78.5	71.5	67.3	67.3	67.3	67.3
60°	4092.8	3074.2	1284.9	179.3	92.5	71.5	64.5	58.8	60.3	60.3	60.3
62.5°	3825.2	2676.2	1032.7	134.5	82.7	64.5	58.8	53.2	53.2	53.2	53.2
65°	3299.8	2082.1	605.3	106.5	71.5	57.4	51.8	47.6	47.6	47.6	46.2
66°	3053.2	1825.7	463.8	96.7	67.3	56.0	50.4	46.2	44.8	43.4	43.4
67.5°	2651.0	1443.2	290.0	85.5	61.7	51.8	46.2	42.0	40.6	39.2	39.2
70°	1996.7	916.4	141.5	65.9	53.2	44.8	40.6	36.4	35.0	33.6	32.2
72.5°	1401.2	536.6	74.3	50.4	43.4	39.2	35.0	30.8	29.4	28.0	28.0
75°	791.7	259.2	49.0	36.4	35.0	32.2	29.4	25.2	23.8	23.8	23.8
77.5°	299.9	89.7	33.6	26.6	28.0	25.2	21.0	21.0	19.6	21.0	19.6
80°	78.5	39.2	21.0	19.6	21.0	18.2	15.4	16.8	16.8	16.8	16.8
82.5°	42.0	22.4	12.6	14.0	12.6	12.6	9.8	11.2	12.6	11.2	12.6
85°	29.4	11.2	7.0	7.0	5.6	5.6	4.2	5.6	7.0	5.6	5.6
87.5°	15.4	4.2	4.2	4.2	4.2	2.8	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)