

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: P1210266

Luminaire Tested: **ARCH2-70-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210266
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: ARCH2-70-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6912 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

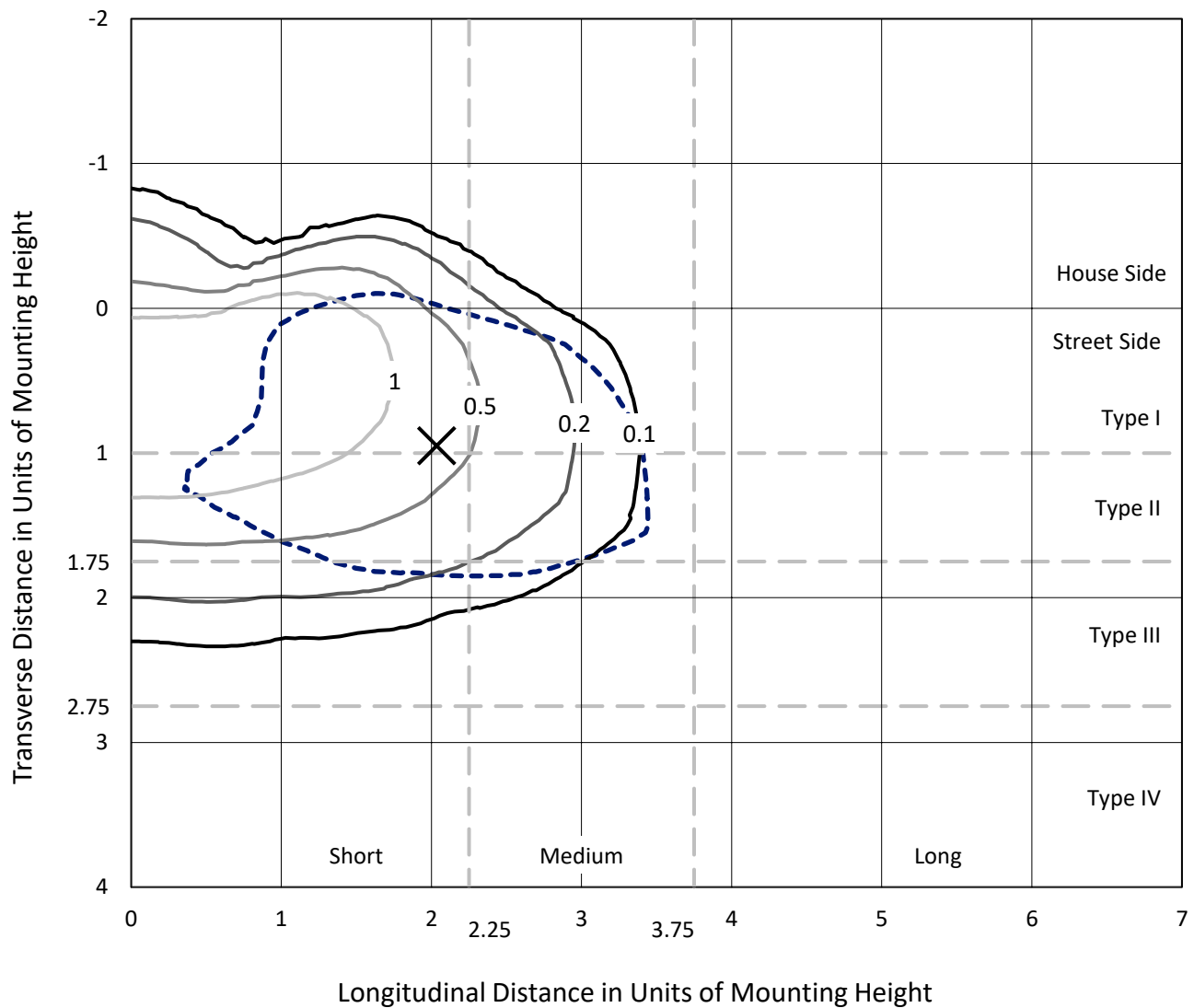
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

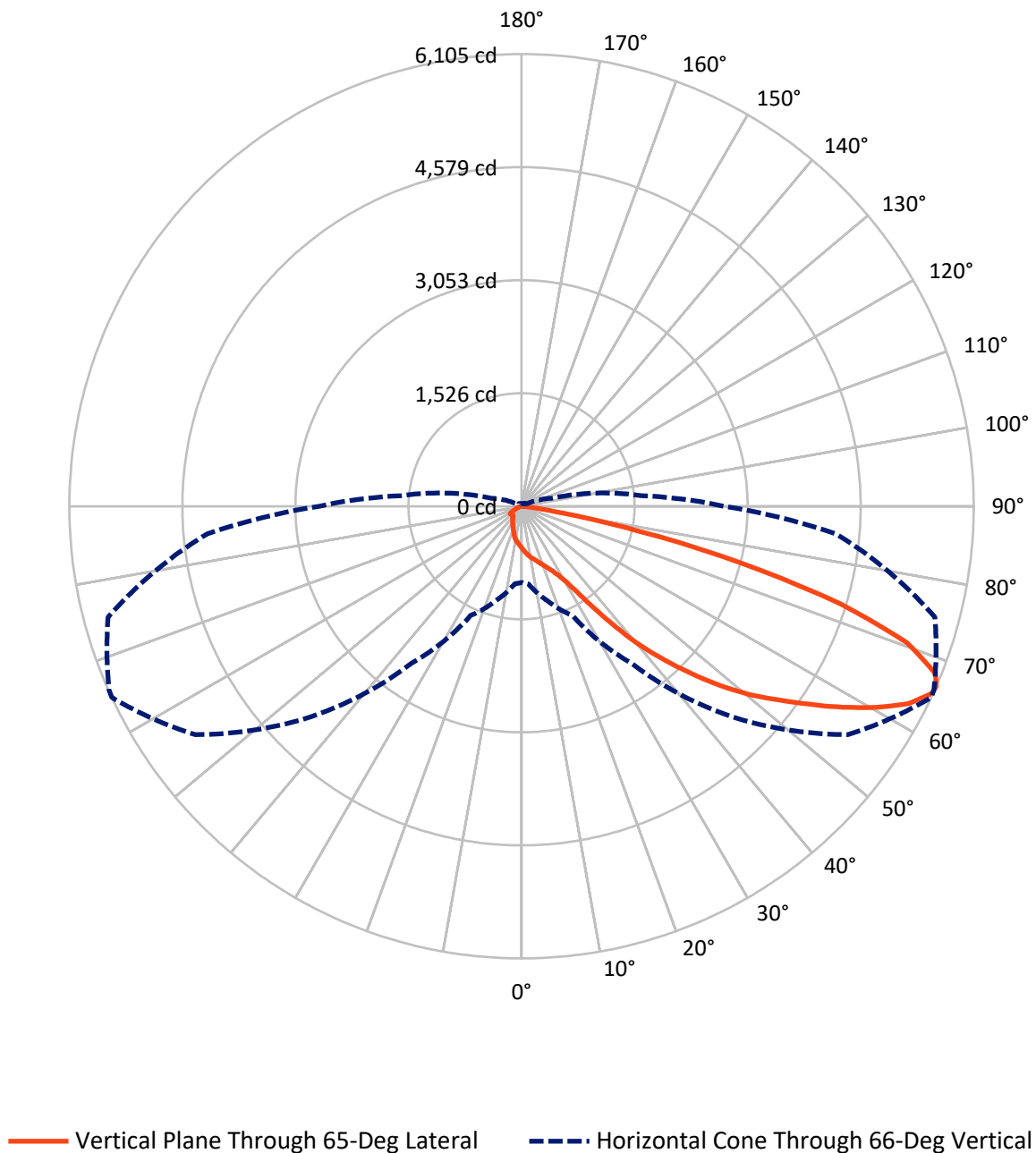


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	815.8	0.0	815.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6096.2	0.0	6096.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	6912.0	0.0	6912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	0.8
10°-20°	158.0	2.3
20°-30°	289.3	4.2
30°-40°	587.8	8.5
40°-50°	1241.2	18.0
50°-60°	1908.1	27.6
60°-70°	1920.7	27.8
70°-80°	717.7	10.4
80°-90°	35.9	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°	6912.0	100.0
0°-180°	6912.0	100.0

Coefficient of Utilization



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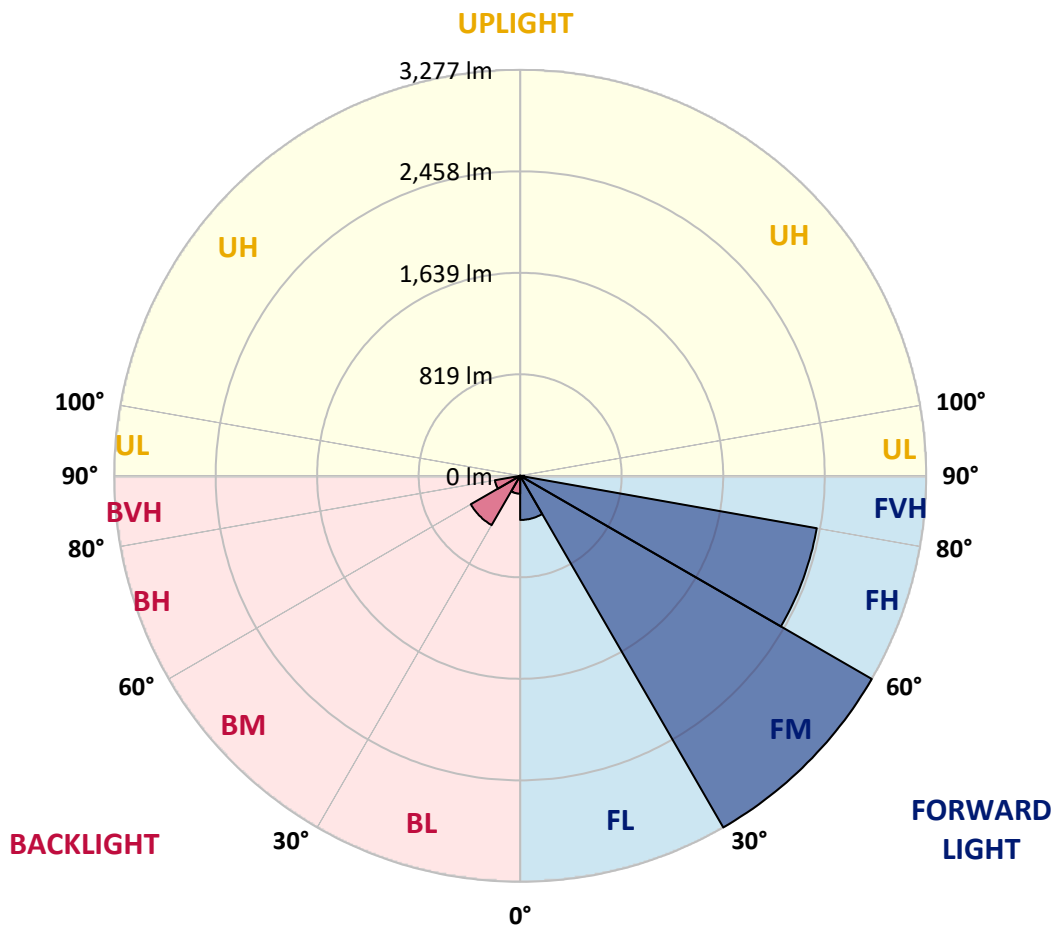
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	5.2			
FM	(30°-60°)	3277.2	47.4			
FH	(60°-80°)	2431.1	35.2			G2/5000
FVH	(80°-90°)	31.6	0.5			G1/100
BL	(0°-30°)	144.4	2.1	B1/500		
BM	(30°-60°)	459.9	6.7	B1/1000		
BH	(60°-80°)	207.2	3.0	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1
2.5°	642.1	643.4	640.9	635.9	630.9	624.6	614.6	598.3	595.7	584.5	571.9
5°	686.0	688.6	684.8	683.5	681.0	672.2	658.5	634.6	632.1	609.5	580.7
7.5°	701.1	704.9	702.3	702.3	702.3	698.6	692.3	671.0	667.2	638.4	594.5
10°	712.4	714.9	713.6	718.7	722.4	719.9	716.1	703.6	699.8	671.0	613.3
12.5°	729.9	731.2	732.4	735.0	741.2	743.7	742.5	731.2	728.7	708.6	637.1
15°	746.2	746.2	747.5	758.8	767.6	772.6	773.8	765.1	762.6	746.2	667.2
17.5°	761.3	762.6	766.3	778.9	793.9	803.9	810.2	806.4	802.7	790.1	702.3
20°	783.9	786.4	790.1	807.7	822.8	839.1	851.6	850.3	849.1	840.3	743.7
22.5°	822.8	825.3	831.5	847.8	862.9	883.0	904.3	903.0	899.3	893.0	792.7
25°	881.7	881.7	885.5	899.3	918.1	941.9	962.0	965.7	962.0	958.2	854.1
27.5°	955.7	957.0	957.0	972.0	989.6	1019.7	1044.7	1048.5	1048.5	1044.7	936.9
30°	1058.5	1054.8	1052.3	1064.8	1083.6	1127.5	1171.4	1178.9	1175.2	1181.5	1053.5
32.5°	1235.4	1229.1	1207.8	1210.3	1221.6	1281.8	1355.8	1382.1	1380.9	1392.2	1241.7
35°	1480.0	1467.4	1436.1	1409.7	1408.5	1473.7	1586.6	1685.6	1684.4	1723.3	1527.6
37.5°	1755.9	1772.2	1713.2	1668.1	1654.3	1705.7	1851.2	2065.7	2076.9	2144.7	1902.6
40°	2124.6	2134.6	2059.4	1995.4	1930.2	1949.0	2140.9	2474.5	2494.6	2569.8	2277.6
42.5°	2445.7	2455.7	2411.8	2334.1	2251.3	2216.2	2433.1	2845.8	2862.1	2966.2	2663.9
45°	2663.9	2671.4	2686.5	2694.0	2599.9	2527.2	2790.6	3227.0	3247.1	3367.5	3041.4
47.5°	2834.5	2840.8	2870.9	2946.1	2927.3	2869.6	3154.3	3623.4	3628.4	3762.6	3408.9
50°	2913.5	2928.5	3002.5	3117.9	3200.7	3217.0	3549.4	3998.4	4012.2	4140.1	3756.3
52.5°	2825.7	2830.7	3017.6	3234.6	3401.4	3566.9	3945.7	4345.8	4385.9	4481.2	4068.6
55°	2529.7	2566.1	2849.5	3230.8	3559.4	3899.3	4369.6	4720.8	4757.2	4817.4	4343.3
57.5°	2186.1	2226.2	2571.1	3069.0	3627.1	4206.6	4762.2	5119.6	5144.7	5161.0	4595.4
60°	1888.8	1926.4	2281.4	2759.2	3559.4	4423.5	5127.1	5515.9	5537.3	5493.4	4722.0
62.5°	1523.8	1561.5	1918.9	2349.1	3293.5	4467.4	5398.1	5868.4	5877.2	5758.0	4644.3
65°	1148.8	1173.9	1472.4	1841.2	2828.2	4234.2	5459.5	6087.9	6079.1	5834.5	4411.0
66°	1029.7	1051.0	1314.4	1627.9	2586.1	4020.9	5376.7	6105.4	6096.6	5778.1	4258.0
67.5°	888.0	894.2	1111.2	1332.0	2163.5	3568.2	5124.6	6025.2	6032.7	5622.6	3978.3
70°	693.6	692.3	817.7	926.9	1477.4	2538.5	4274.3	5519.7	5556.1	5035.6	3392.6
72.5°	444.0	428.9	501.7	566.9	860.4	1473.7	3116.7	4498.8	4560.3	3955.7	2527.2
75°	264.6	249.6	267.1	283.4	412.6	708.6	1832.4	3061.5	3120.4	2536.0	1503.8
77.5°	198.2	191.9	193.1	179.3	183.1	265.9	836.5	1617.9	1660.6	1038.5	570.7
80°	151.8	135.5	126.7	132.9	120.4	105.4	311.0	556.9	583.2	245.8	119.1
82.5°	101.6	87.8	81.5	89.0	76.5	58.9	75.3	107.9	105.4	66.5	46.4
85°	52.7	45.2	45.2	45.2	38.9	28.8	32.6	43.9	43.9	35.1	27.6
87.5°	15.1	13.8	16.3	15.1	11.3	11.3	12.5	15.1	15.1	13.8	12.5
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°	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1	563.1
2.5°	561.9	556.9	543.1	533.0	523.0	514.2	504.2	501.7	496.7	497.9	495.4
5°	565.6	551.8	528.0	505.4	487.9	472.8	454.0	446.5	436.5	432.7	430.2
7.5°	570.7	550.6	515.5	484.1	454.0	423.9	393.8	376.3	365.0	360.0	356.2
10°	581.9	555.6	509.2	460.3	408.9	366.2	336.1	323.6	316.1	314.8	313.5
12.5°	597.0	563.1	502.9	430.2	362.5	322.3	303.5	299.8	298.5	298.5	297.2
15°	619.6	575.7	492.9	395.1	326.1	298.5	289.7	283.4	280.9	280.9	280.9
17.5°	642.1	590.7	477.8	358.7	301.0	283.4	274.7	270.9	268.4	269.7	268.4
20°	671.0	608.3	457.8	327.3	284.7	270.9	262.1	258.4	257.1	257.1	257.1
22.5°	703.6	628.4	432.7	303.5	270.9	258.4	249.6	245.8	243.3	244.6	244.6
25°	747.5	653.4	406.4	279.7	257.1	245.8	235.8	230.8	230.8	232.0	233.3
27.5°	803.9	683.5	380.0	264.6	244.6	233.3	222.0	217.0	218.2	220.7	220.7
30°	886.7	724.9	353.7	248.3	230.8	218.2	208.2	203.2	205.7	210.7	210.7
32.5°	1004.6	792.7	331.1	229.5	210.7	196.9	186.9	183.1	189.4	199.4	199.4
35°	1215.3	916.8	317.3	210.7	189.4	173.1	160.5	156.8	165.6	178.1	178.1
37.5°	1497.5	1116.2	322.3	194.4	171.8	153.0	139.2	134.2	140.5	151.8	155.5
40°	1812.3	1357.0	366.2	180.6	155.5	136.7	122.9	117.9	121.7	126.7	127.9
42.5°	2127.1	1612.9	449.0	170.6	143.0	122.9	110.4	106.6	109.1	110.4	111.6
45°	2440.7	1866.2	553.1	164.3	131.7	111.6	99.1	99.1	100.3	100.3	100.3
47.5°	2737.9	2113.3	662.2	163.0	121.7	100.3	90.3	91.6	91.6	92.8	92.8
50°	3018.8	2334.1	772.6	166.8	112.9	90.3	82.8	82.8	82.8	84.0	82.8
52.5°	3253.4	2527.2	888.0	173.1	104.1	82.8	75.3	75.3	75.3	76.5	75.3
55°	3475.4	2702.8	1005.9	181.9	96.6	76.5	69.0	66.5	66.5	67.7	66.5
57.5°	3656.0	2819.4	1117.5	183.1	90.3	70.2	64.0	60.2	60.2	60.2	60.2
60°	3663.5	2751.7	1150.1	160.5	82.8	64.0	57.7	52.7	53.9	53.9	53.9
62.5°	3424.0	2395.5	924.3	120.4	74.0	57.7	52.7	47.7	47.7	47.7	47.7
65°	2953.6	1863.7	541.8	95.3	64.0	51.4	46.4	42.6	42.6	42.6	41.4
66°	2732.9	1634.2	415.1	86.5	60.2	50.2	45.2	41.4	40.1	38.9	38.9
67.5°	2372.9	1291.8	259.6	76.5	55.2	46.4	41.4	37.6	36.4	35.1	35.1
70°	1787.2	820.2	126.7	58.9	47.7	40.1	36.4	32.6	31.4	30.1	28.8
72.5°	1254.2	480.4	66.5	45.2	38.9	35.1	31.4	27.6	26.3	25.1	25.1
75°	708.6	232.0	43.9	32.6	31.4	28.8	26.3	22.6	21.3	21.3	21.3
77.5°	268.4	80.3	30.1	23.8	25.1	22.6	18.8	18.8	17.6	18.8	17.6
80°	70.2	35.1	18.8	17.6	18.8	16.3	13.8	15.1	15.1	15.1	15.1
82.5°	37.6	20.1	11.3	12.5	11.3	11.3	8.8	10.0	11.3	10.0	11.3
85°	26.3	10.0	6.3	6.3	5.0	5.0	3.8	5.0	6.3	5.0	5.0
87.5°	13.8	3.8	3.8	3.8	3.8	2.5	1.3	0.0	1.3	1.3	1.3
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)