

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: P1210278

Luminaire Tested: **ARCH2-70-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210278
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: ARCH2-70-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

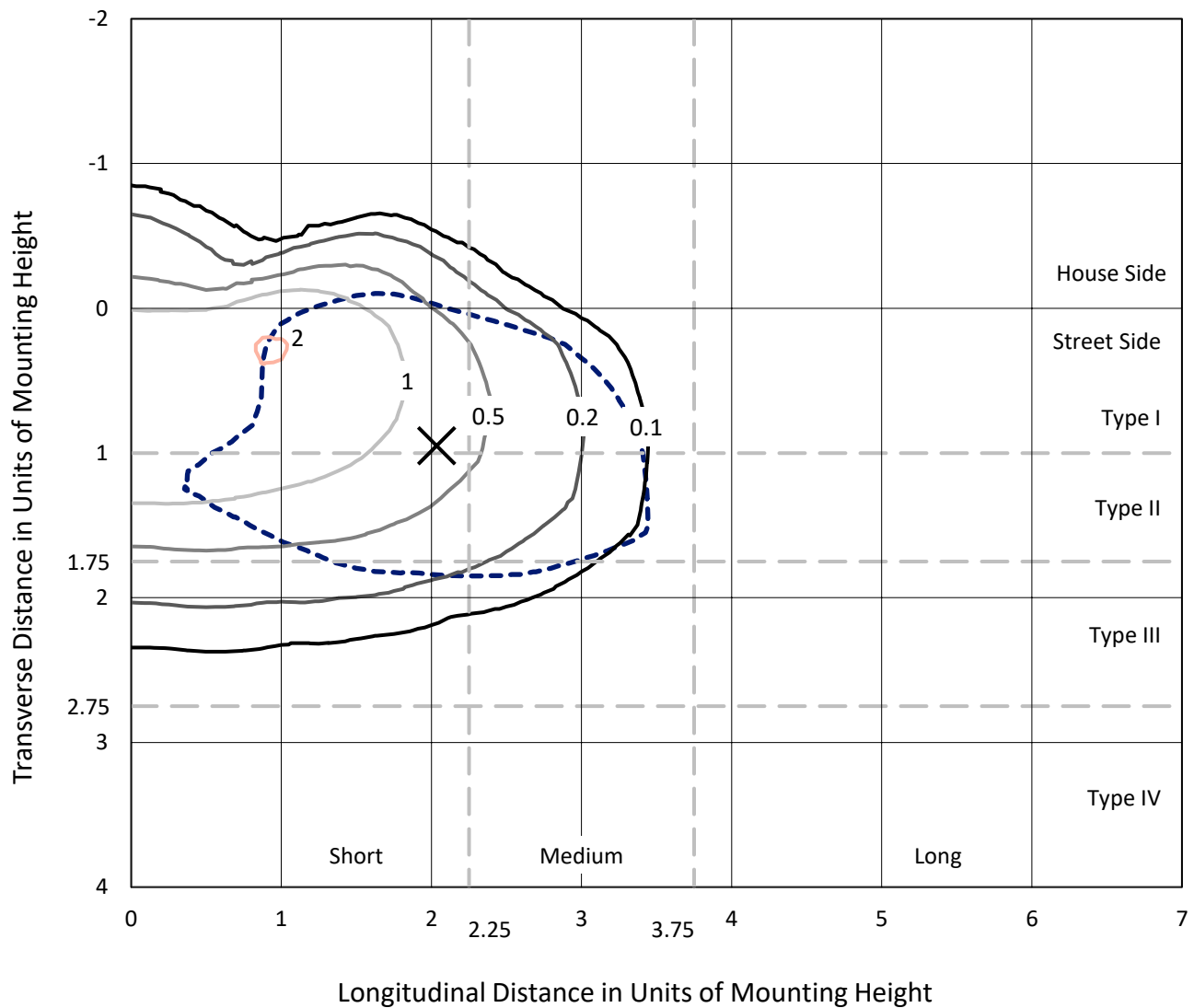
Lumens per Lamp: N/A
Luminaire Lumens: 7520 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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



Iso-Footcandle Lines of Horizontal Illumination

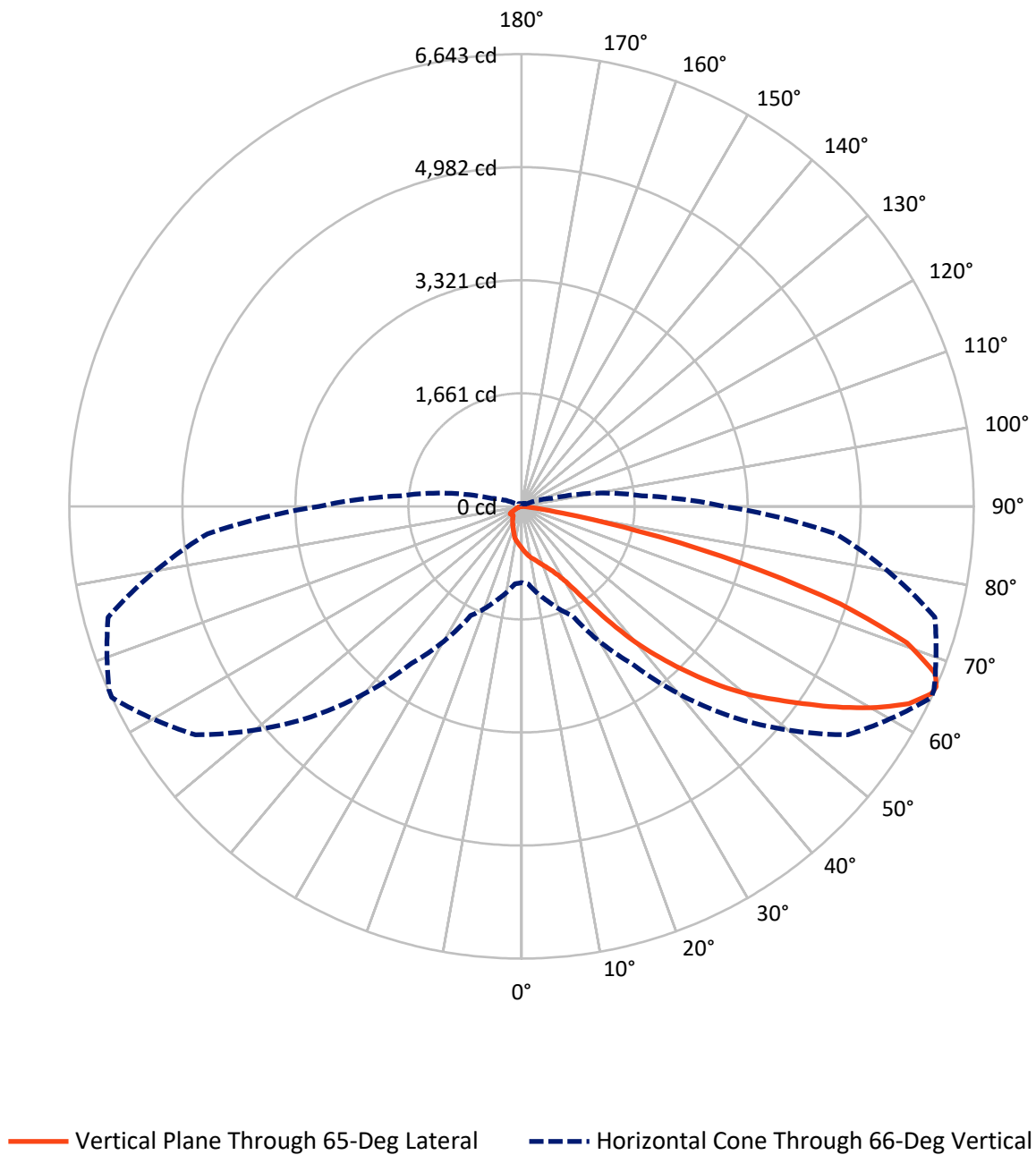
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

REPORT NUMBER: P1210278
CATALOG NUMBER: ARCH2-70-740-U-T3RE-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.5	0.0	887.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6632.5	0.0	6632.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	7520.0	0.0	7520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	0.8
10°-20°	171.9	2.3
20°-30°	314.7	4.2
30°-40°	639.5	8.5
40°-50°	1350.4	18.0
50°-60°	2076.0	27.6
60°-70°	2089.6	27.8
70°-80°	780.8	10.4
80°-90°	39.0	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°	7520.0	100.0
0°-180°	7520.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210278

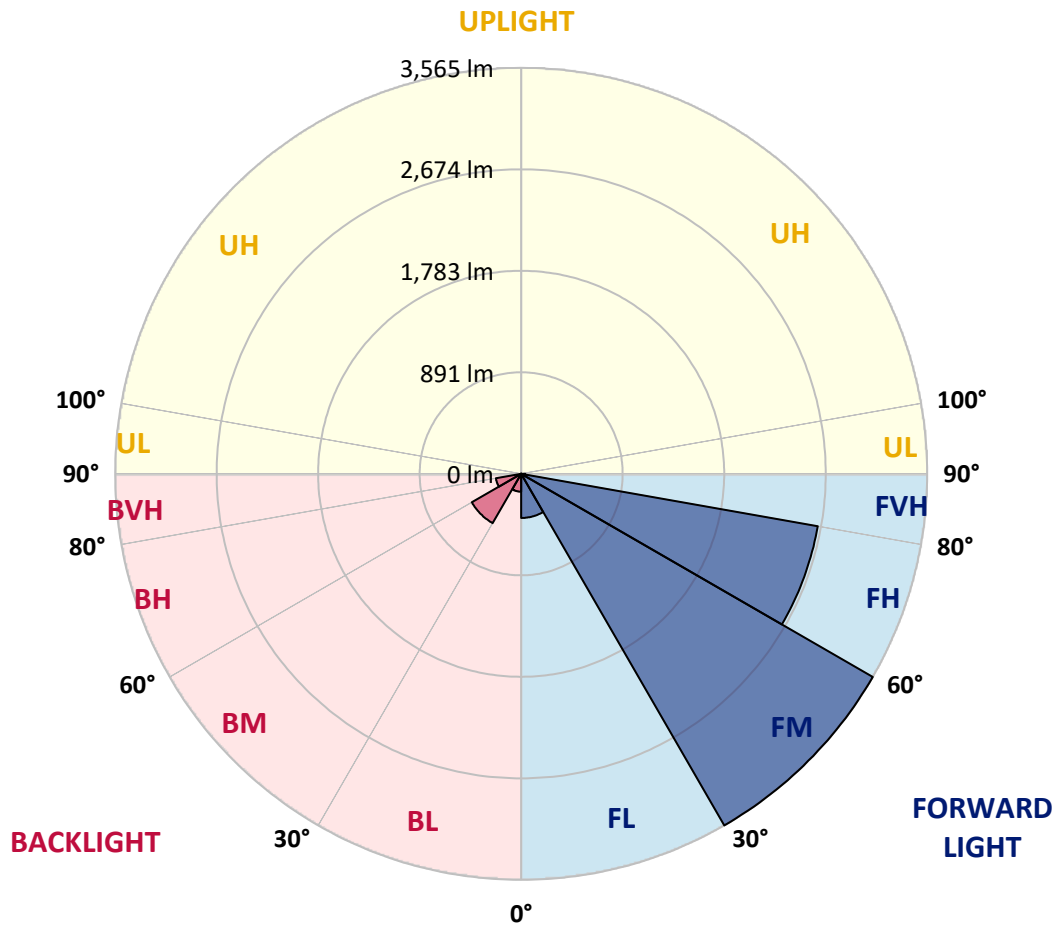
CATALOG NUMBER: ARCH2-70-740-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.6	5.2			
FM	(30°-60°)	3565.5	47.4			
FH	(60°-80°)	2645.0	35.2			G2/5000
FVH	(80°-90°)	34.4	0.5			G1/100
BL	(0°-30°)	157.1	2.1	B1/500		
BM	(30°-60°)	500.4	6.7	B1/1000		
BH	(60°-80°)	225.5	3.0	B1/500		G1/500
BVH	(80°-90°)	4.6	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



REPORT NUMBER: P1210278

CATALOG NUMBER: ARCH2-70-740-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
2.5°	698.6	700.0	697.3	691.8	686.4	679.5	668.6	650.9	648.1	635.9	622.2
5°	746.4	749.1	745.0	743.7	740.9	731.4	716.4	690.4	687.7	663.2	631.8
7.5°	762.8	766.9	764.1	764.1	764.1	760.0	753.2	730.0	725.9	694.5	646.8
10°	775.0	777.8	776.4	781.9	786.0	783.2	779.1	765.5	761.4	730.0	667.2
12.5°	794.1	795.5	796.9	799.6	806.4	809.2	807.8	795.5	792.8	771.0	693.2
15°	811.9	811.9	813.3	825.5	835.1	840.5	841.9	832.4	829.6	811.9	725.9
17.5°	828.3	829.6	833.7	847.4	863.7	874.7	881.5	877.4	873.3	859.6	764.1
20°	852.8	855.6	859.6	878.7	895.1	912.9	926.5	925.1	923.8	914.2	809.2
22.5°	895.1	897.9	904.7	922.4	938.8	960.6	983.8	982.5	978.4	971.5	862.4
25°	959.3	959.3	963.3	978.4	998.8	1024.8	1046.6	1050.7	1046.6	1042.5	929.2
27.5°	1039.8	1041.1	1041.1	1057.5	1076.6	1109.4	1136.6	1140.7	1140.7	1136.6	1019.3
30°	1151.7	1147.6	1144.8	1158.5	1178.9	1226.7	1274.5	1282.6	1278.6	1285.4	1146.2
32.5°	1344.0	1337.2	1314.0	1316.8	1329.0	1394.5	1475.0	1503.7	1502.3	1514.6	1350.9
35°	1610.1	1596.5	1562.4	1533.7	1532.4	1603.3	1726.1	1833.9	1832.5	1874.8	1662.0
37.5°	1910.3	1928.1	1863.9	1814.8	1799.8	1855.7	2014.0	2247.4	2259.6	2333.3	2070.0
40°	2311.5	2322.4	2240.5	2170.9	2100.0	2120.5	2329.2	2692.2	2714.0	2795.9	2478.0
42.5°	2660.8	2671.7	2624.0	2539.4	2449.3	2411.1	2647.2	3096.1	3113.8	3227.1	2898.2
45°	2898.2	2906.4	2922.8	2931.0	2828.6	2749.5	3036.1	3510.9	3532.7	3663.7	3309.0
47.5°	3083.8	3090.6	3123.4	3205.3	3184.8	3122.0	3431.8	3942.1	3947.5	4093.6	3708.8
50°	3169.8	3186.1	3266.7	3392.2	3482.2	3500.0	3861.6	4350.1	4365.1	4504.3	4086.7
52.5°	3074.3	3079.7	3283.0	3519.1	3700.6	3880.7	4292.8	4728.1	4771.7	4875.4	4426.5
55°	2752.2	2791.8	3100.2	3515.0	3872.5	4242.3	4754.0	5136.0	5175.6	5241.1	4725.3
57.5°	2378.4	2422.0	2797.3	3339.0	3946.2	4576.6	5181.1	5570.0	5597.3	5615.0	4999.6
60°	2055.0	2095.9	2482.1	3001.9	3872.5	4812.7	5578.1	6001.1	6024.3	5976.6	5137.4
62.5°	1657.9	1698.8	2087.7	2555.7	3583.2	4860.4	5872.9	6384.6	6394.1	6264.5	5052.8
65°	1249.9	1277.2	1601.9	2003.1	3077.0	4606.6	5939.7	6623.4	6613.8	6347.7	4799.0
66°	1120.3	1143.5	1430.0	1771.1	2813.6	4374.6	5849.7	6642.5	6632.9	6286.3	4632.5
67.5°	966.1	972.9	1209.0	1449.1	2353.8	3882.1	5575.4	6555.1	6563.3	6117.1	4328.2
70°	754.6	753.2	889.7	1008.4	1607.4	2761.8	4650.3	6005.2	6044.8	5478.5	3691.0
72.5°	483.0	466.7	545.8	616.8	936.1	1603.3	3390.8	4894.5	4961.4	4303.7	2749.5
75°	287.9	271.5	290.6	308.4	448.9	771.0	1993.6	3330.8	3394.9	2759.1	1636.1
77.5°	215.6	208.8	210.1	195.1	199.2	289.3	910.1	1760.2	1806.6	1129.8	620.9
80°	165.1	147.4	137.8	144.6	131.0	114.6	338.4	605.8	634.5	267.4	129.6
82.5°	110.5	95.5	88.7	96.9	83.2	64.1	81.9	117.3	114.6	72.3	50.5
85°	57.3	49.1	49.1	49.1	42.3	31.4	35.5	47.8	47.8	38.2	30.0
87.5°	16.4	15.0	17.7	16.4	12.3	12.3	13.6	16.4	16.4	15.0	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210278

CATALOG NUMBER: ARCH2-70-740-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7	612.7
2.5°	611.3	605.8	590.8	579.9	569.0	559.5	548.5	545.8	540.3	541.7	539.0
5°	615.4	600.4	574.5	549.9	530.8	514.4	494.0	485.8	474.9	470.8	468.0
7.5°	620.9	599.0	560.8	526.7	494.0	461.2	428.5	409.4	397.1	391.6	387.5
10°	633.1	604.5	554.0	500.8	444.8	398.4	365.7	352.0	343.9	342.5	341.1
12.5°	649.5	612.7	547.2	468.0	394.3	350.7	330.2	326.1	324.8	324.8	323.4
15°	674.1	626.3	536.3	429.8	354.8	324.8	315.2	308.4	305.7	305.7	305.7
17.5°	698.6	642.7	519.9	390.3	327.5	308.4	298.8	294.7	292.0	293.4	292.0
20°	730.0	661.8	498.0	356.1	309.7	294.7	285.2	281.1	279.7	279.7	279.7
22.5°	765.5	683.6	470.8	330.2	294.7	281.1	271.5	267.4	264.7	266.1	266.1
25°	813.3	710.9	442.1	304.3	279.7	267.4	256.5	251.1	251.1	252.4	253.8
27.5°	874.7	743.7	413.4	287.9	266.1	253.8	241.5	236.1	237.4	240.2	240.2
30°	964.7	788.7	384.8	270.2	251.1	237.4	226.5	221.1	223.8	229.2	229.2
32.5°	1093.0	862.4	360.2	249.7	229.2	214.2	203.3	199.2	206.0	217.0	217.0
35°	1322.2	997.5	345.2	229.2	206.0	188.3	174.7	170.6	180.1	193.8	193.8
37.5°	1629.2	1214.4	350.7	211.5	186.9	166.5	151.5	146.0	152.8	165.1	169.2
40°	1971.7	1476.4	398.4	196.5	169.2	148.7	133.7	128.3	132.4	137.8	139.2
42.5°	2314.2	1754.8	488.5	185.6	155.6	133.7	120.1	116.0	118.7	120.1	121.4
45°	2655.4	2030.4	601.8	178.8	143.3	121.4	107.8	107.8	109.2	109.2	109.2
47.5°	2978.7	2299.2	720.5	177.4	132.4	109.2	98.2	99.6	99.6	101.0	101.0
50°	3284.4	2539.4	840.5	181.5	122.8	98.2	90.1	90.1	90.1	91.4	90.1
52.5°	3539.6	2749.5	966.1	188.3	113.3	90.1	81.9	81.9	81.9	83.2	81.9
55°	3781.1	2940.5	1094.3	197.9	105.1	83.2	75.0	72.3	72.3	73.7	72.3
57.5°	3977.6	3067.4	1215.8	199.2	98.2	76.4	69.6	65.5	65.5	65.5	65.5
60°	3985.8	2993.8	1251.3	174.7	90.1	69.6	62.8	57.3	58.7	58.7	58.7
62.5°	3725.1	2606.2	1005.6	131.0	80.5	62.8	57.3	51.9	51.9	51.9	51.9
65°	3213.4	2027.7	589.5	103.7	69.6	55.9	50.5	46.4	46.4	46.4	45.0
66°	2973.3	1778.0	451.7	94.2	65.5	54.6	49.1	45.0	43.7	42.3	42.3
67.5°	2581.7	1405.5	282.5	83.2	60.0	50.5	45.0	40.9	39.6	38.2	38.2
70°	1944.4	892.4	137.8	64.1	51.9	43.7	39.6	35.5	34.1	32.7	31.4
72.5°	1364.5	522.6	72.3	49.1	42.3	38.2	34.1	30.0	28.7	27.3	27.3
75°	771.0	252.4	47.8	35.5	34.1	31.4	28.7	24.6	23.2	23.2	23.2
77.5°	292.0	87.3	32.7	25.9	27.3	24.6	20.5	20.5	19.1	20.5	19.1
80°	76.4	38.2	20.5	19.1	20.5	17.7	15.0	16.4	16.4	16.4	16.4
82.5°	40.9	21.8	12.3	13.6	12.3	12.3	9.6	10.9	12.3	10.9	12.3
85°	28.7	10.9	6.8	6.8	5.5	5.5	4.1	5.5	6.8	5.5	5.5
87.5°	15.0	4.1	4.1	4.1	4.1	2.7	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)