

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: P1210584

Luminaire Tested: **ARCH3-170-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15519 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

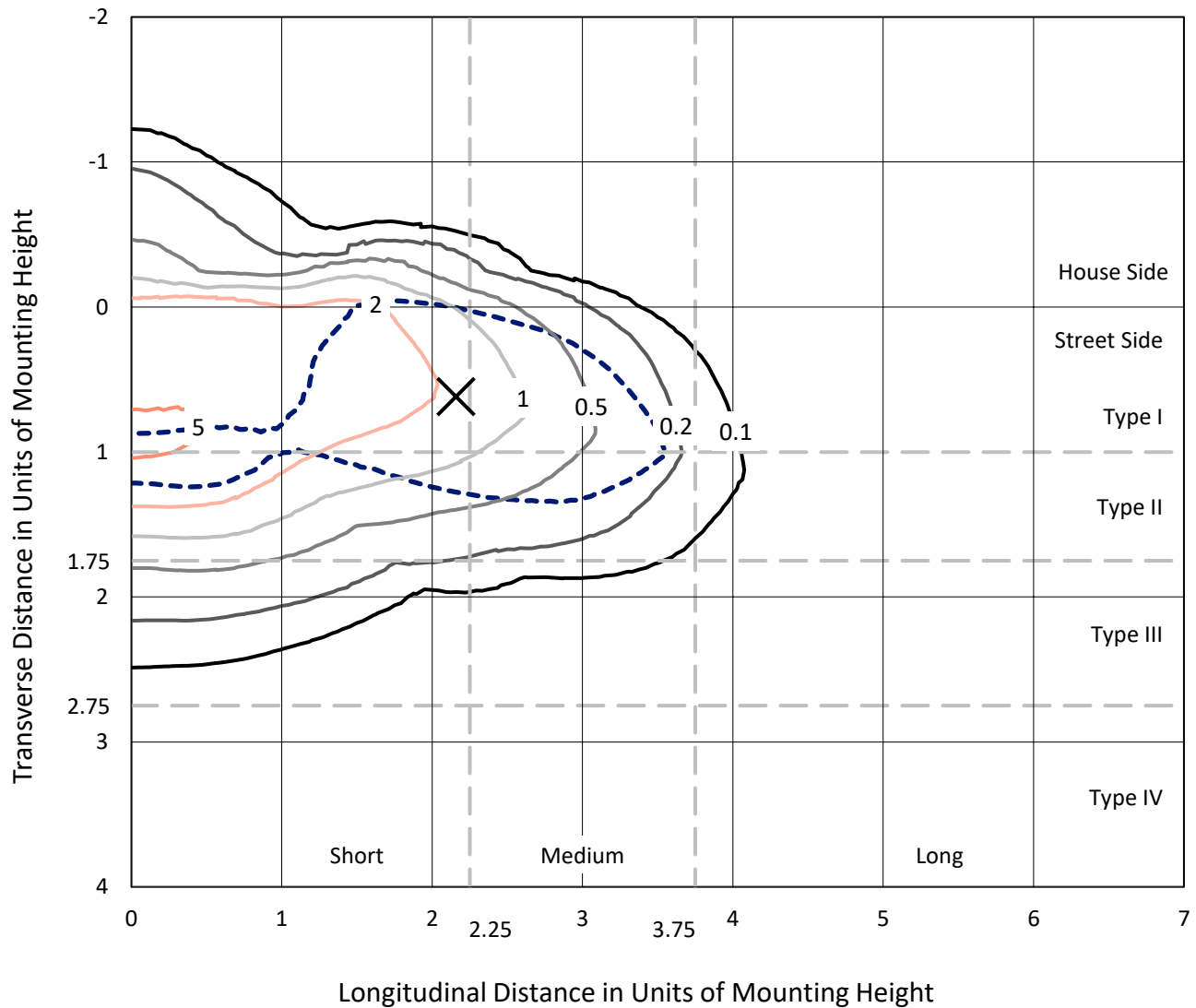
Input Watts (W): 170.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210584
 CATALOG NUMBER: ARCH3-170-727-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

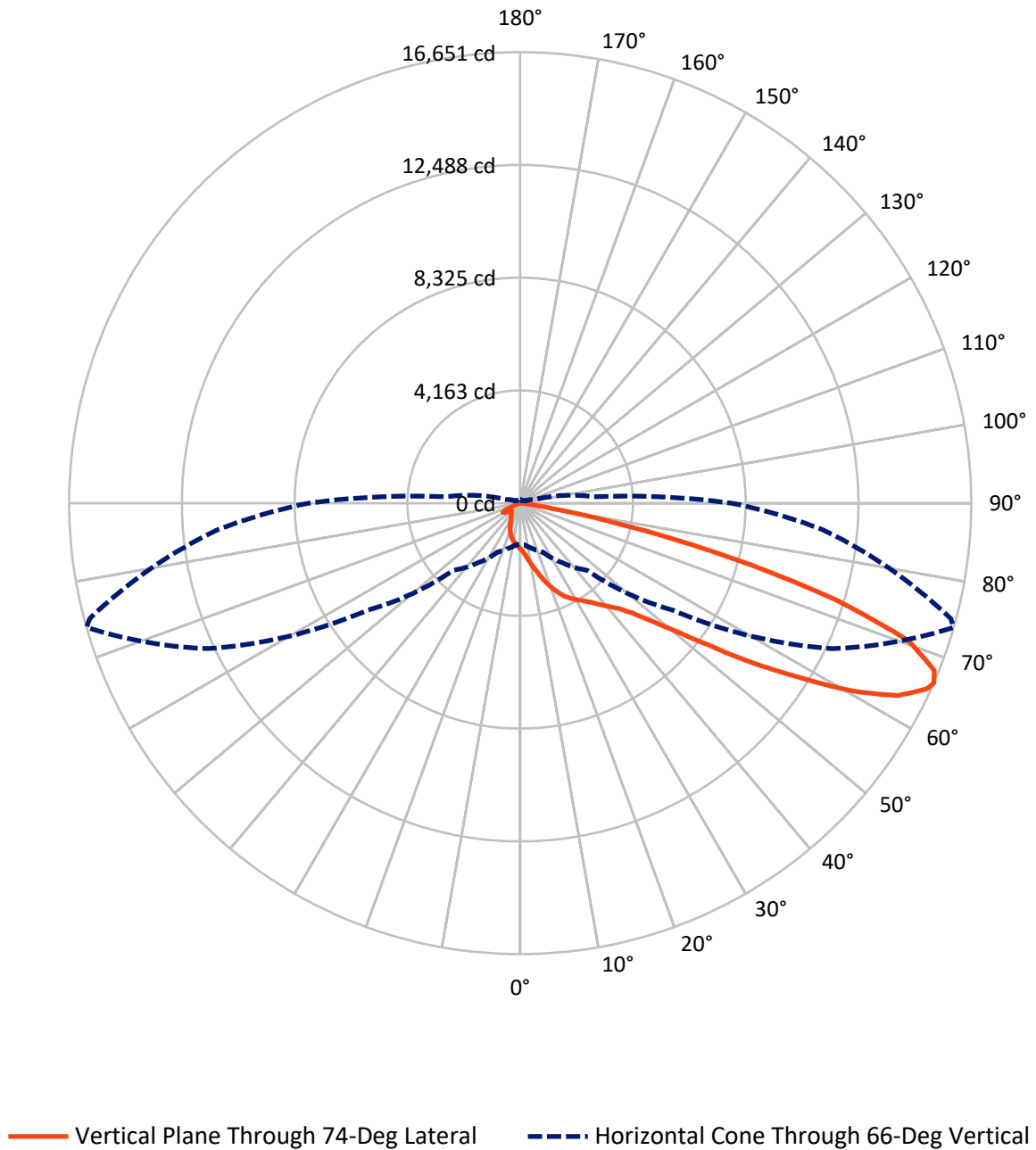
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P1210584
CATALOG NUMBER: ARCH3-170-727-U-T2RE-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1521.3	0.0	1521.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13997.6	0.0	13997.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	15519.0	0.0	15519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	1.1
10°-20°	530.1	3.4
20°-30°	1011.6	6.5
30°-40°	1773.1	11.4
40°-50°	3040.5	19.6
50°-60°	3954.3	25.5
60°-70°	3579.7	23.1
70°-80°	1381.2	8.9
80°-90°	83.1	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°	15519.0	100.0
0°-180°	15519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210584

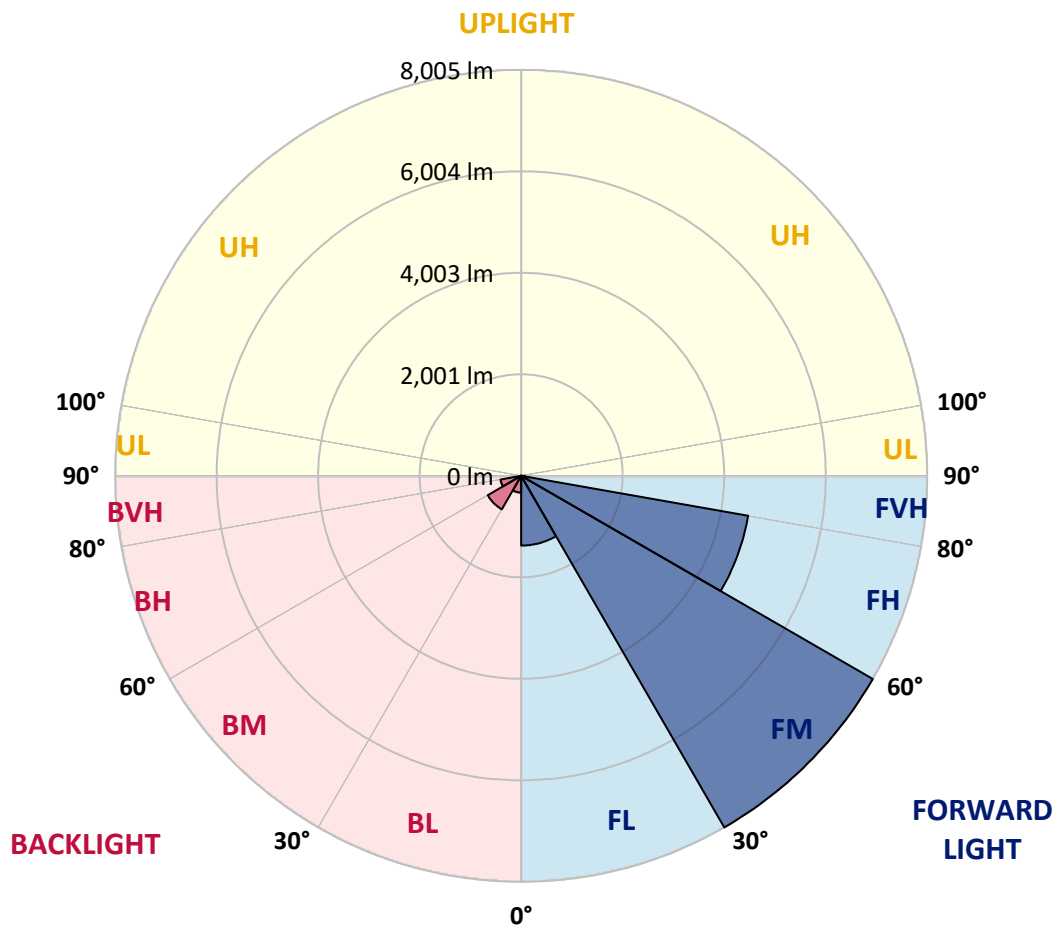
CATALOG NUMBER: ARCH3-170-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.2	8.9			
FM	(30°-60°)	8005.5	51.6			
FH	(60°-80°)	4545.0	29.3			G2/5000
FVH	(80°-90°)	72.0	0.5			G1/100
BL	(0°-30°)	331.8	2.1	B1/500		
BM	(30°-60°)	762.5	4.9	B1/1000		
BH	(60°-80°)	415.9	2.7	B1/500		G1/500
BVH	(80°-90°)	11.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P1210584

CATALOG NUMBER: ARCH3-170-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0
2.5°	2034.0	2017.2	1986.6	1983.8	1958.7	1928.1	1875.1	1819.4	1780.4	1774.8	1727.5
5°	2435.2	2426.8	2396.2	2376.7	2329.3	2256.9	2134.3	2011.7	1908.6	1897.4	1791.6
7.5°	2541.0	2546.6	2552.2	2571.7	2555.0	2521.5	2429.6	2256.9	2095.3	2070.2	1886.3
10°	2557.8	2552.2	2552.2	2577.3	2624.6	2672.0	2660.9	2513.2	2304.2	2273.6	2017.2
12.5°	2738.9	2747.2	2727.7	2716.6	2708.2	2733.3	2816.9	2752.8	2524.3	2499.3	2176.1
15°	2972.9	2970.1	2942.3	2942.3	2917.2	2875.4	2928.3	2975.7	2789.0	2758.4	2357.2
17.5°	3142.9	3154.0	3151.2	3168.0	3159.6	3103.9	3076.0	3173.5	3062.1	3023.1	2563.3
20°	3279.4	3310.1	3321.2	3374.1	3399.2	3360.2	3287.8	3349.1	3324.0	3287.8	2772.3
22.5°	3424.3	3449.4	3468.9	3560.8	3630.5	3622.1	3530.2	3516.2	3577.5	3544.1	2978.5
25°	3569.2	3580.3	3638.8	3750.3	3861.7	3889.6	3794.9	3686.2	3806.0	3775.4	3162.4
27.5°	3728.0	3733.6	3803.2	3939.7	4095.8	4154.3	4079.1	3878.4	3981.5	3981.5	3329.6
30°	4017.8	4073.5	4101.3	4223.9	4360.5	4441.3	4352.1	4081.8	4137.6	4162.6	3505.1
32.5°	4641.9	4650.2	4641.9	4694.8	4722.7	4770.0	4666.9	4310.3	4296.4	4324.2	3677.8
35°	5594.8	5561.3	5472.2	5394.2	5232.6	5143.4	5009.7	4602.9	4491.4	4530.4	3847.8
37.5°	6751.1	6703.7	6500.3	6260.7	5915.2	5558.5	5391.4	4959.5	4739.4	4789.5	4031.7
40°	7854.4	7823.8	7581.4	7286.0	6695.3	6085.1	5731.3	5260.4	5015.2	5034.7	4218.4
42.5°	8762.7	8757.1	8553.8	8244.5	7486.6	6653.5	6132.5	5555.8	5305.0	5335.6	4413.4
45°	9450.9	9398.0	9247.5	9024.6	8252.8	7244.2	6617.3	6004.3	5770.3	5806.5	4706.0
47.5°	9450.9	9459.3	9556.8	9534.5	8787.8	7798.7	7146.7	6570.0	6458.5	6491.9	5188.0
50°	8681.9	8759.9	9194.6	9559.6	9066.4	8230.5	7717.9	7277.7	7391.9	7442.0	6029.4
52.5°	7160.6	7291.6	8046.7	8879.7	8860.2	8447.9	8308.6	8177.6	8690.3	8779.4	7272.1
55°	5441.5	5527.9	6511.4	7606.4	7963.1	8269.6	8824.0	9320.0	10409.4	10389.9	8534.2
57.5°	4065.1	4145.9	4992.9	6207.7	6678.6	7497.8	9088.7	10626.7	12114.6	12189.8	9718.4
60°	2989.6	3050.9	3772.6	4770.0	5449.9	6316.4	8982.8	11914.0	14078.9	13992.5	10763.2
62.5°	2212.3	2245.7	2766.7	3415.9	4318.7	5146.2	8316.9	12794.4	15647.5	15472.0	11345.6
65°	1710.8	1721.9	1992.2	2337.7	3140.1	4001.0	7325.0	12928.1	16514.0	16327.4	11334.4
66°	1524.1	1532.4	1730.3	1997.7	2672.0	3502.3	6890.4	12713.6	16650.6	16452.7	11195.1
67.5°	1278.9	1273.3	1390.3	1565.9	2006.1	2702.7	6118.6	12086.7	16489.0	16388.7	10749.3
70°	947.3	950.1	1008.6	1050.4	1173.0	1496.2	4419.0	10484.6	15196.1	15190.6	9526.1
72.5°	702.1	710.5	755.1	763.4	732.8	810.8	2546.6	8339.2	12156.4	12159.1	7121.6
75°	526.6	540.5	554.5	560.0	532.2	512.7	1150.7	5611.5	7996.5	7938.0	4031.7
77.5°	401.2	406.8	417.9	409.6	404.0	353.9	479.2	2736.1	3948.1	3597.0	1306.7
80°	292.6	292.6	303.7	292.6	289.8	253.5	261.9	877.7	1159.1	964.0	281.4
82.5°	183.9	181.1	189.5	186.7	181.1	161.6	153.2	245.2	267.5	239.6	136.5
85°	103.1	100.3	97.5	94.7	86.4	72.4	83.6	91.9	122.6	125.4	97.5
87.5°	36.2	36.2	33.4	30.6	25.1	25.1	30.6	30.6	44.6	44.6	50.2
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: P1210584

CATALOG NUMBER: ARCH3-170-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0	1694.0
2.5°	1705.2	1674.5	1629.9	1571.4	1529.6	1487.9	1443.3	1418.2	1382.0	1373.6	1384.8
5°	1735.8	1680.1	1568.7	1446.1	1340.2	1245.4	1156.3	1103.4	1050.4	1030.9	1039.3
7.5°	1799.9	1705.2	1515.7	1317.9	1142.4	1000.3	894.4	833.1	785.7	766.2	771.8
10°	1894.6	1749.8	1465.6	1173.0	947.3	796.9	707.7	668.7	640.8	629.7	632.5
12.5°	2008.9	1813.8	1401.5	1028.1	780.1	649.2	607.4	599.0	593.5	587.9	590.7
15°	2137.0	1869.6	1326.2	886.0	649.2	576.8	562.8	560.0	557.2	557.2	557.2
17.5°	2270.8	1919.7	1242.7	752.3	565.6	532.2	523.8	523.8	523.8	526.6	526.6
20°	2396.2	1958.7	1145.1	632.5	518.2	490.4	484.8	484.8	487.6	490.4	490.4
22.5°	2518.8	1975.4	1030.9	548.9	479.2	454.2	445.8	445.8	445.8	448.6	448.6
25°	2624.6	1975.4	916.7	496.0	445.8	420.7	409.6	406.8	409.6	409.6	409.6
27.5°	2713.8	1967.1	805.2	459.7	412.4	387.3	376.1	373.4	378.9	381.7	381.7
30°	2808.5	1955.9	716.1	426.3	384.5	359.4	348.3	348.3	356.6	367.8	367.8
32.5°	2900.5	1964.3	646.4	398.4	356.6	337.1	326.0	328.8	345.5	362.2	362.2
35°	2998.0	1981.0	604.6	378.9	337.1	317.6	309.3	317.6	334.3	351.1	351.1
37.5°	3095.5	2000.5	579.5	362.2	320.4	300.9	295.3	306.5	326.0	342.7	345.5
40°	3198.6	2017.2	551.7	345.5	309.3	287.0	284.2	295.3	320.4	337.1	339.9
42.5°	3326.8	2050.7	518.2	331.6	298.1	270.3	273.1	281.4	306.5	331.6	334.3
45°	3577.5	2156.5	484.8	317.6	284.2	261.9	256.3	261.9	289.8	317.6	323.2
47.5°	4048.4	2396.2	448.6	303.7	270.3	256.3	234.0	239.6	264.7	295.3	298.1
50°	4951.1	2906.0	429.1	289.8	259.1	236.8	211.8	211.8	231.3	259.1	259.1
52.5°	6358.2	3819.9	440.2	278.6	245.2	217.3	192.3	189.5	200.6	220.1	220.1
55°	7876.7	4823.0	482.0	267.5	228.5	206.2	178.3	164.4	172.7	183.9	183.9
57.5°	9080.4	5327.3	596.3	261.9	209.0	197.8	161.6	142.1	150.5	161.6	161.6
60°	9609.7	5031.9	724.4	267.5	195.0	183.9	144.9	125.4	139.3	150.5	153.2
62.5°	9180.7	4143.1	777.4	253.5	175.5	164.4	142.1	117.0	133.7	142.1	144.9
65°	8252.8	3148.4	607.4	220.1	161.6	142.1	128.2	111.4	125.4	133.7	133.7
66°	7812.6	2744.4	518.2	203.4	156.0	133.7	122.6	111.4	122.6	128.2	131.0
67.5°	7130.0	2164.9	384.5	178.3	144.9	122.6	114.2	105.9	117.0	122.6	122.6
70°	5575.3	1290.0	231.3	139.3	125.4	108.7	103.1	97.5	105.9	108.7	108.7
72.5°	3491.2	613.0	147.7	103.1	105.9	103.1	86.4	91.9	94.7	97.5	97.5
75°	1691.2	242.4	100.3	75.2	86.4	97.5	69.7	80.8	83.6	89.2	86.4
77.5°	470.9	117.0	64.1	55.7	75.2	75.2	52.9	64.1	75.2	94.7	86.4
80°	136.5	75.2	41.8	41.8	52.9	52.9	36.2	44.6	50.2	55.7	58.5
82.5°	94.7	50.2	27.9	30.6	30.6	33.4	22.3	22.3	27.9	27.9	30.6
85°	75.2	22.3	16.7	19.5	13.9	16.7	11.1	11.1	13.9	11.1	11.1
87.5°	30.6	11.1	11.1	11.1	8.4	8.4	5.6	2.8	2.8	2.8	2.8
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)