

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: P1210884

Luminaire Tested: **ARCH4-100-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210884
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: ARCH4-100-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12812 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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

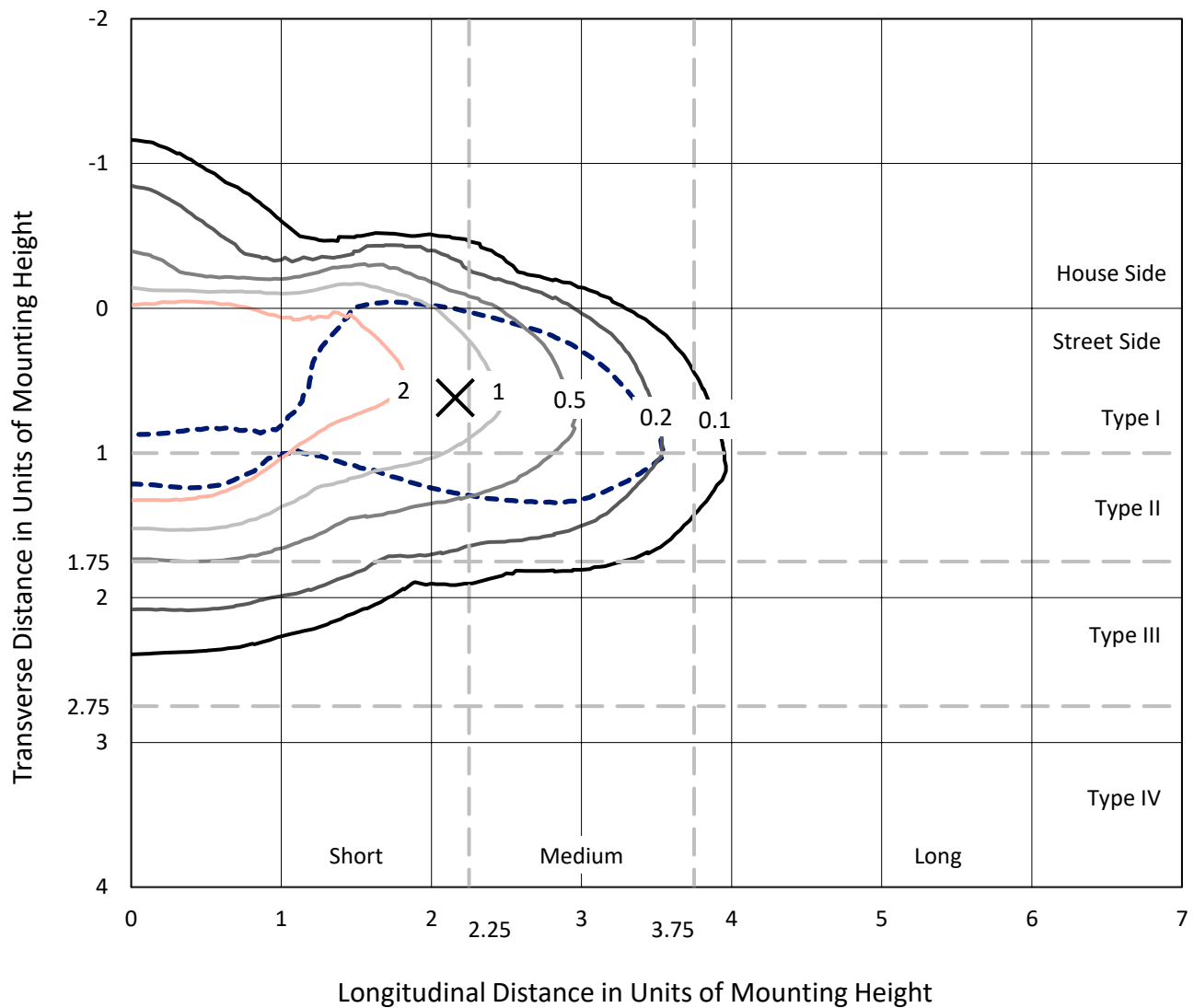


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Iso-Footcandle Lines of Horizontal Illumination

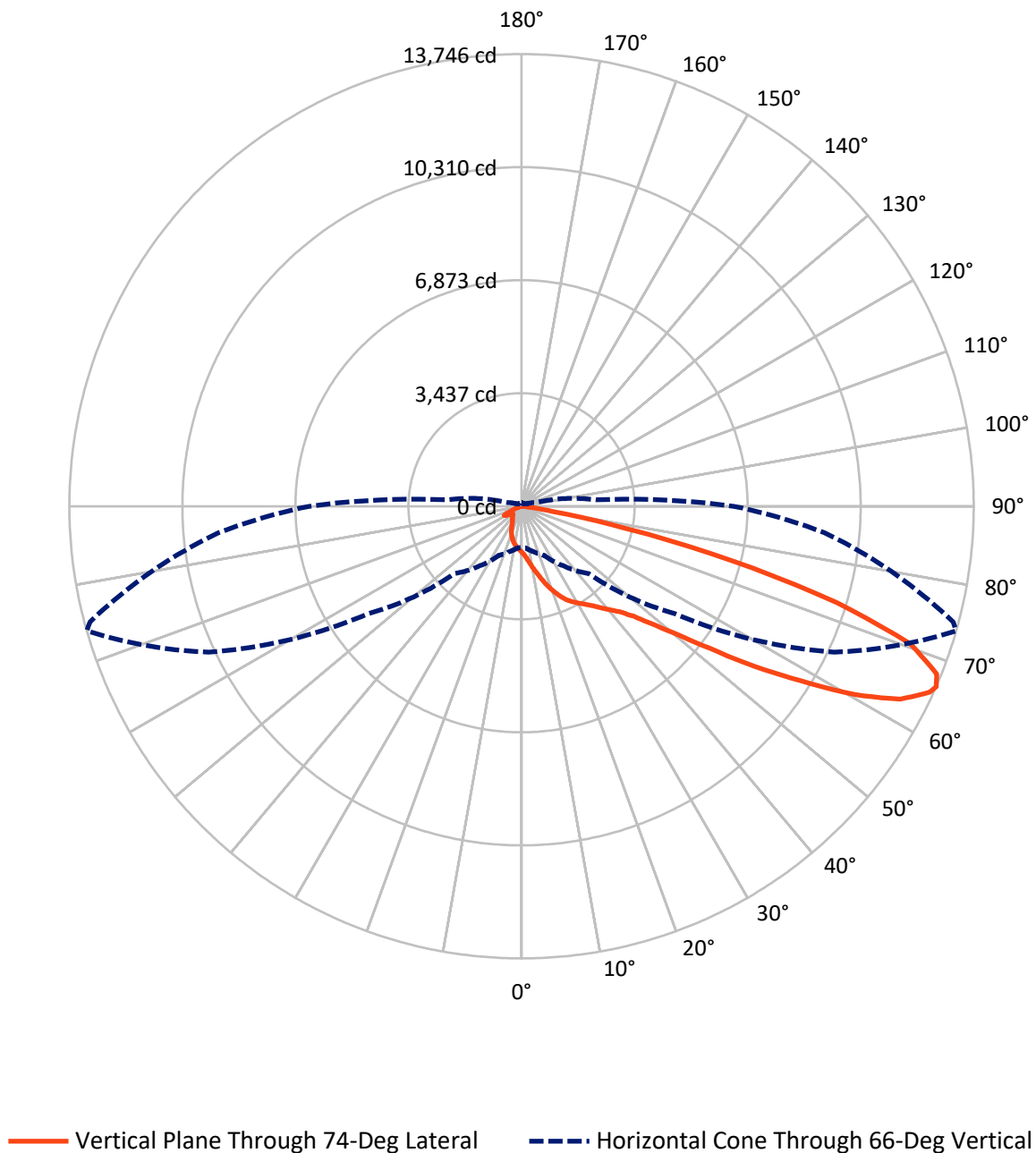
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.9	0.0	1255.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11556.0	0.0	11556.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	12812.0	0.0	12812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.1
10°-20°	437.6	3.4
20°-30°	835.2	6.5
30°-40°	1463.8	11.4
40°-50°	2510.1	19.6
50°-60°	3264.6	25.5
60°-70°	2955.3	23.1
70°-80°	1140.3	8.9
80°-90°	68.6	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°	12812.0	100.0
0°-180°	12812.0	100.0

Coefficient of Utilization



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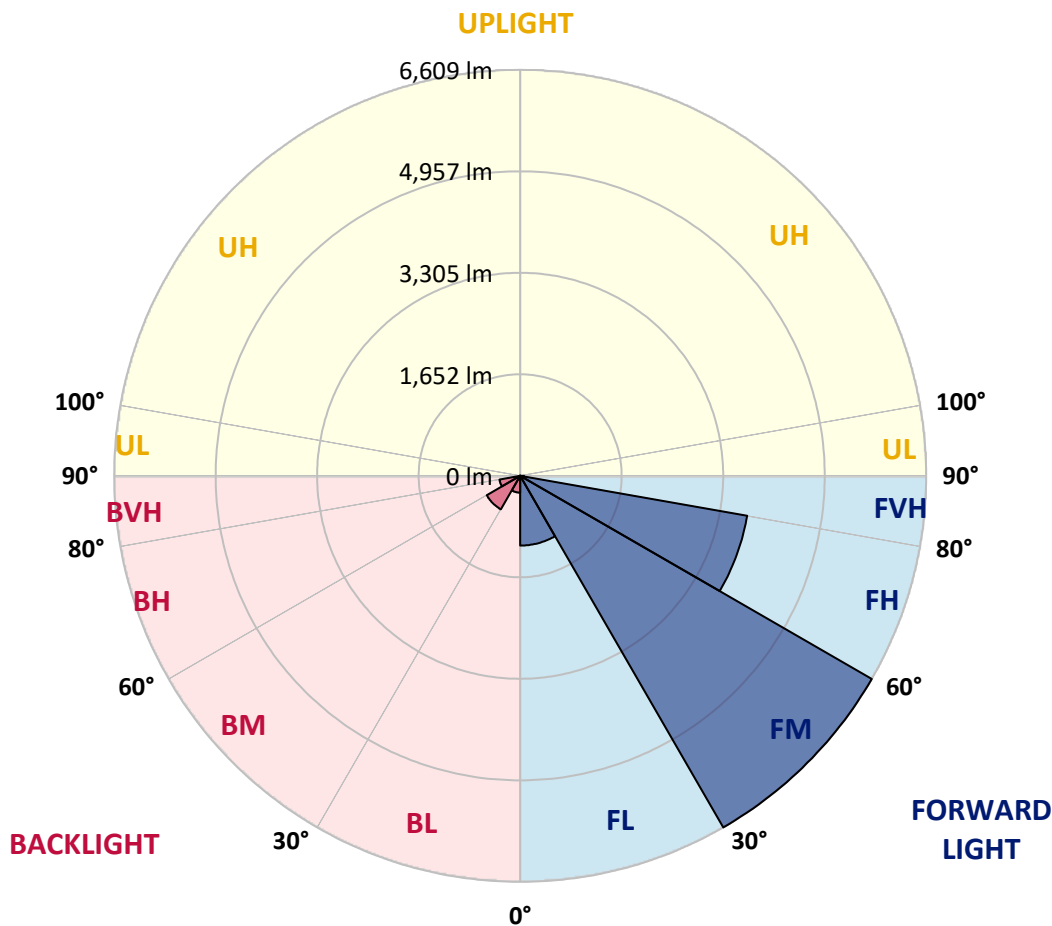
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1135.3	8.9			
FM	(30°-60°)	6609.1	51.6			
FH	(60°-80°)	3752.2	29.3			G2/5000
FVH	(80°-90°)	59.4	0.5			G1/100
BL	(0°-30°)	274.0	2.1	B1/500		
BM	(30°-60°)	629.4	4.9	B1/1000		
BH	(60°-80°)	343.4	2.7	B1/500		G1/500
BVH	(80°-90°)	9.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1679.2	1665.4	1640.1	1637.8	1617.1	1591.8	1548.1	1502.1	1469.8	1465.2	1426.1
5°	2010.4	2003.5	1978.2	1962.1	1923.0	1863.2	1762.0	1660.8	1575.7	1566.5	1479.0
7.5°	2097.8	2102.4	2107.0	2123.1	2109.3	2081.7	2005.8	1863.2	1729.8	1709.1	1557.3
10°	2111.6	2107.0	2107.0	2127.7	2166.8	2205.9	2196.7	2074.8	1902.3	1877.0	1665.4
12.5°	2261.1	2268.0	2251.9	2242.7	2235.8	2256.5	2325.5	2272.6	2084.0	2063.3	1796.5
15°	2454.3	2452.0	2429.0	2429.0	2408.3	2373.8	2417.5	2456.6	2302.5	2277.2	1946.0
17.5°	2594.7	2603.9	2601.6	2615.4	2608.5	2562.5	2539.5	2620.0	2528.0	2495.8	2116.2
20°	2707.4	2732.7	2741.9	2785.6	2806.3	2774.1	2714.3	2764.9	2744.2	2714.3	2288.7
22.5°	2827.0	2847.7	2863.8	2939.7	2997.2	2990.3	2914.4	2902.9	2953.5	2925.9	2458.9
25°	2946.6	2955.8	3004.1	3096.1	3188.1	3211.1	3132.9	3043.2	3142.1	3116.8	2610.8
27.5°	3077.7	3082.3	3139.8	3252.5	3381.3	3429.6	3367.5	3201.9	3287.0	3287.0	2748.8
30°	3316.9	3362.9	3385.9	3487.2	3599.9	3666.6	3593.0	3369.8	3415.8	3436.5	2893.7
32.5°	3832.2	3839.1	3832.2	3875.9	3898.9	3938.0	3852.9	3558.5	3547.0	3570.0	3036.3
35°	4618.9	4591.3	4517.7	4453.2	4319.8	4246.2	4135.8	3800.0	3708.0	3740.2	3176.6
37.5°	5573.5	5534.4	5366.4	5168.6	4883.4	4589.0	4450.9	4094.4	3912.7	3954.1	3328.4
40°	6484.4	6459.0	6258.9	6015.1	5527.5	5023.7	4731.6	4342.8	4140.4	4156.5	3482.5
42.5°	7234.2	7229.6	7061.7	6806.4	6180.7	5493.0	5062.8	4586.7	4379.6	4404.9	3643.6
45°	7802.4	7758.7	7634.5	7450.4	6813.3	5980.6	5463.0	4957.0	4763.8	4793.7	3885.1
47.5°	7802.4	7809.3	7889.8	7871.4	7254.9	6438.3	5900.1	5423.9	5331.9	5359.5	4283.0
50°	7167.5	7231.9	7590.8	7892.1	7485.0	6794.9	6371.6	6008.2	6102.5	6143.9	4977.7
52.5°	5911.6	6019.7	6643.1	7330.8	7314.7	6974.3	6859.3	6751.2	7174.4	7248.0	6003.6
55°	4492.4	4563.7	5375.6	6279.6	6574.1	6827.1	7284.8	7694.3	8593.7	8577.6	7045.6
57.5°	3356.0	3422.7	4122.0	5124.9	5513.7	6189.9	7503.4	8773.1	10001.4	10063.5	8023.2
60°	2468.1	2518.8	3114.5	3938.0	4499.3	5214.6	7415.9	9835.8	11623.1	11551.8	8885.8
62.5°	1826.4	1854.0	2284.1	2820.1	3565.4	4248.5	6866.2	10562.7	12918.1	12773.2	9366.5
65°	1412.3	1421.5	1644.7	1929.9	2592.4	3303.1	6047.3	10673.1	13633.5	13479.4	9357.3
66°	1258.2	1265.1	1428.4	1649.3	2205.9	2891.4	5688.5	10496.0	13746.2	13582.9	9242.3
67.5°	1055.8	1051.2	1147.8	1292.7	1656.2	2231.2	5051.3	9978.4	13612.8	13530.0	8874.3
70°	782.1	784.4	832.7	867.2	968.4	1235.2	3648.2	8655.8	12545.5	12540.9	7864.5
72.5°	579.7	586.6	623.4	630.3	605.0	669.4	2102.4	6884.6	10035.9	10038.2	5879.4
75°	434.7	446.2	457.7	462.3	439.3	423.2	950.0	4632.7	6601.7	6553.4	3328.4
77.5°	331.2	335.8	345.0	338.1	333.5	292.1	395.6	2258.8	3259.4	2969.6	1078.8
80°	241.5	241.5	250.7	241.5	239.2	209.3	216.2	724.6	956.9	795.9	232.3
82.5°	151.8	149.5	156.4	154.1	149.5	133.4	126.5	202.4	220.8	197.8	112.7
85°	85.1	82.8	80.5	78.2	71.3	59.8	69.0	75.9	101.2	103.5	80.5
87.5°	29.9	29.9	27.6	25.3	20.7	20.7	25.3	25.3	36.8	36.8	41.4
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°	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5	1398.5
2.5°	1407.7	1382.4	1345.6	1297.3	1262.8	1228.3	1191.5	1170.8	1140.9	1134.0	1143.2
5°	1433.0	1387.0	1295.0	1193.8	1106.4	1028.2	954.6	910.9	867.2	851.1	858.0
7.5°	1485.9	1407.7	1251.3	1088.0	943.1	825.8	738.4	687.8	648.7	632.6	637.2
10°	1564.2	1444.5	1209.9	968.4	782.1	657.9	584.3	552.1	529.1	519.9	522.2
12.5°	1658.5	1497.5	1157.0	848.8	644.1	536.0	501.5	494.5	489.9	485.3	487.6
15°	1764.3	1543.5	1094.9	731.5	536.0	476.1	464.6	462.3	460.0	460.0	460.0
17.5°	1874.7	1584.9	1025.9	621.1	466.9	439.3	432.4	432.4	432.4	434.7	434.7
20°	1978.2	1617.1	945.4	522.2	427.8	404.8	400.2	400.2	402.5	404.8	404.8
22.5°	2079.4	1630.9	851.1	453.1	395.6	374.9	368.0	368.0	368.0	370.3	370.3
25°	2166.8	1630.9	756.8	409.4	368.0	347.3	338.1	335.8	338.1	338.1	338.1
27.5°	2240.4	1624.0	664.8	379.5	340.4	319.7	310.5	308.2	312.8	315.1	315.1
30°	2318.6	1614.8	591.2	351.9	317.4	296.7	287.5	287.5	294.4	303.6	303.6
32.5°	2394.5	1621.7	533.7	328.9	294.4	278.3	269.1	271.4	285.2	299.0	299.0
35°	2475.0	1635.5	499.2	312.8	278.3	262.2	255.3	262.2	276.0	289.8	289.8
37.5°	2555.6	1651.6	478.4	299.0	264.5	248.4	243.8	253.0	269.1	282.9	285.2
40°	2640.7	1665.4	455.4	285.2	255.3	236.9	234.6	243.8	264.5	278.3	280.6
42.5°	2746.5	1693.0	427.8	273.7	246.1	223.1	225.4	232.3	253.0	273.7	276.0
45°	2953.5	1780.4	400.2	262.2	234.6	216.2	211.6	216.2	239.2	262.2	266.8
47.5°	3342.2	1978.2	370.3	250.7	223.1	211.6	193.2	197.8	218.5	243.8	246.1
50°	4087.5	2399.1	354.2	239.2	213.9	195.5	174.8	174.8	190.9	213.9	213.9
52.5°	5249.1	3153.6	363.4	230.0	202.4	179.4	158.7	156.4	165.6	181.7	181.7
55°	6502.8	3981.7	397.9	220.8	188.6	170.2	147.2	135.7	142.6	151.8	151.8
57.5°	7496.5	4398.0	492.2	216.2	172.5	163.3	133.4	117.3	124.2	133.4	133.4
60°	7933.5	4154.2	598.1	220.8	161.0	151.8	119.6	103.5	115.0	124.2	126.5
62.5°	7579.3	3420.4	641.8	209.3	144.9	135.7	117.3	96.6	110.4	117.3	119.6
65°	6813.3	2599.3	501.5	181.7	133.4	117.3	105.8	92.0	103.5	110.4	110.4
66°	6449.8	2265.7	427.8	167.9	128.8	110.4	101.2	92.0	101.2	105.8	108.1
67.5°	5886.3	1787.3	317.4	147.2	119.6	101.2	94.3	87.4	96.6	101.2	101.2
70°	4602.8	1065.0	190.9	115.0	103.5	89.7	85.1	80.5	87.4	89.7	89.7
72.5°	2882.2	506.1	121.9	85.1	87.4	85.1	71.3	75.9	78.2	80.5	80.5
75°	1396.2	200.1	82.8	62.1	71.3	80.5	57.5	66.7	69.0	73.6	71.3
77.5°	388.7	96.6	52.9	46.0	62.1	62.1	43.7	52.9	62.1	78.2	71.3
80°	112.7	62.1	34.5	34.5	43.7	43.7	29.9	36.8	41.4	46.0	48.3
82.5°	78.2	41.4	23.0	25.3	25.3	27.6	18.4	18.4	23.0	23.0	25.3
85°	62.1	18.4	13.8	16.1	11.5	13.8	9.2	9.2	11.5	9.2	9.2
87.5°	25.3	9.2	9.2	9.2	6.9	6.9	4.6	2.3	2.3	2.3	2.3
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)