

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: P1211092

Luminaire Tested: **ARCH4-170-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211092
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: ARCH4-170-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1380mA 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: 16574 lumens
Efficiency: N/A
Efficacy: 97.6 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): 169.8
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

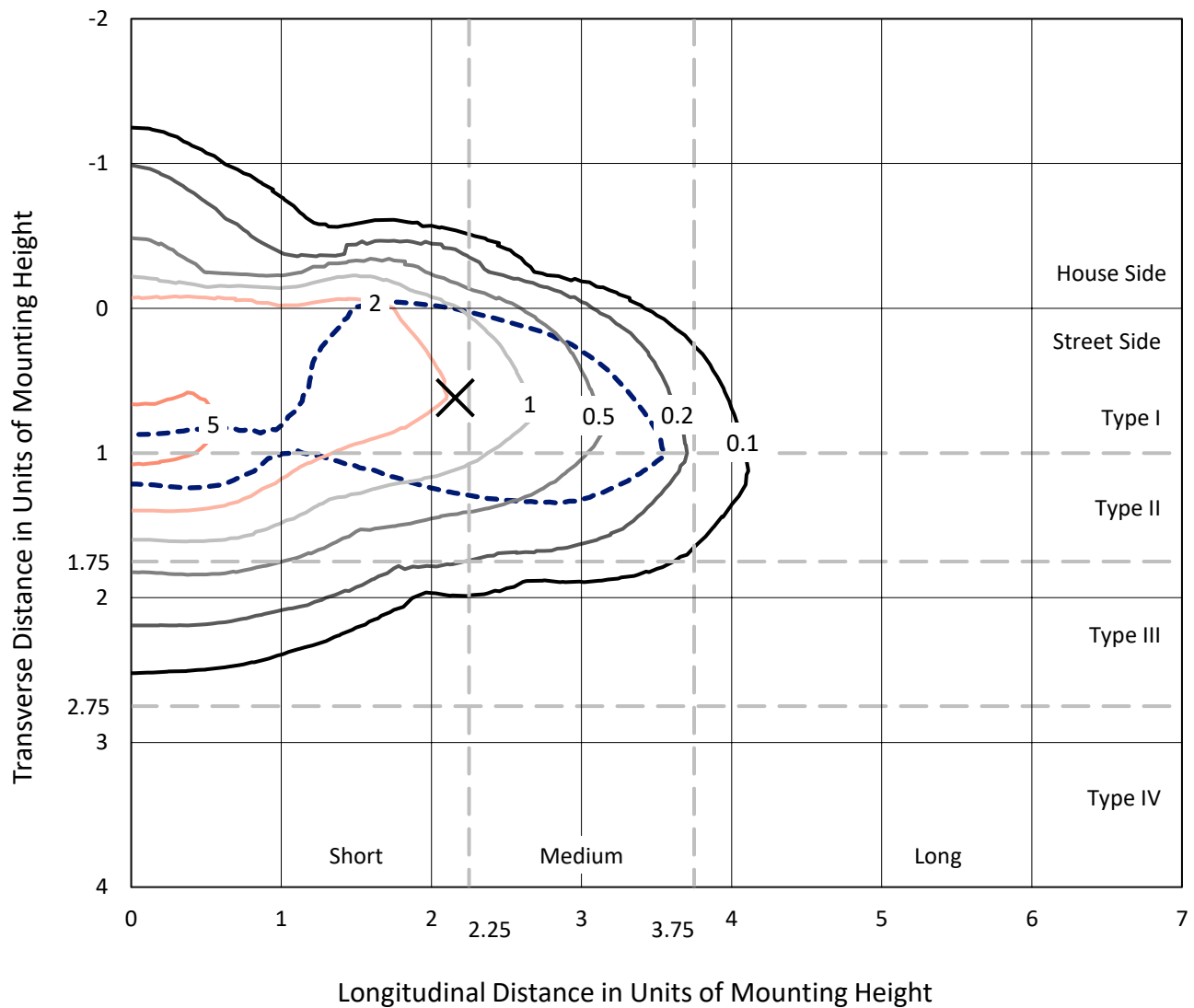


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Iso-Footcandle Lines of Horizontal Illumination

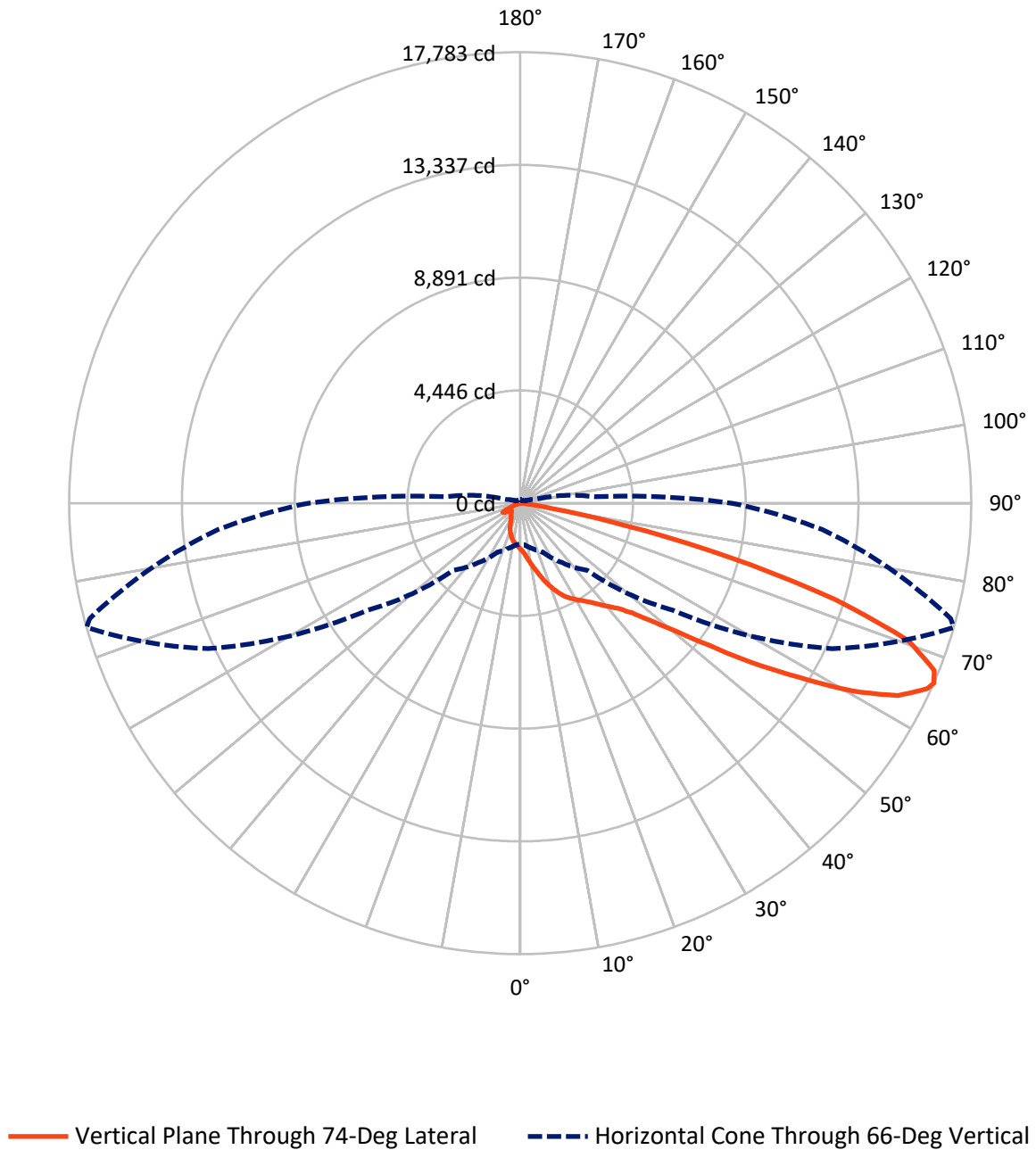
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1624.8	0.0	1624.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14949.2	0.0	14949.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	16574.0	0.0	16574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.1
10°-20°	566.1	3.4
20°-30°	1080.4	6.5
30°-40°	1893.7	11.4
40°-50°	3247.2	19.6
50°-60°	4223.2	25.5
60°-70°	3823.0	23.1
70°-80°	1475.1	8.9
80°-90°	88.8	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°	16574.0	100.0
0°-180°	16574.0	100.0

Coefficient of Utilization



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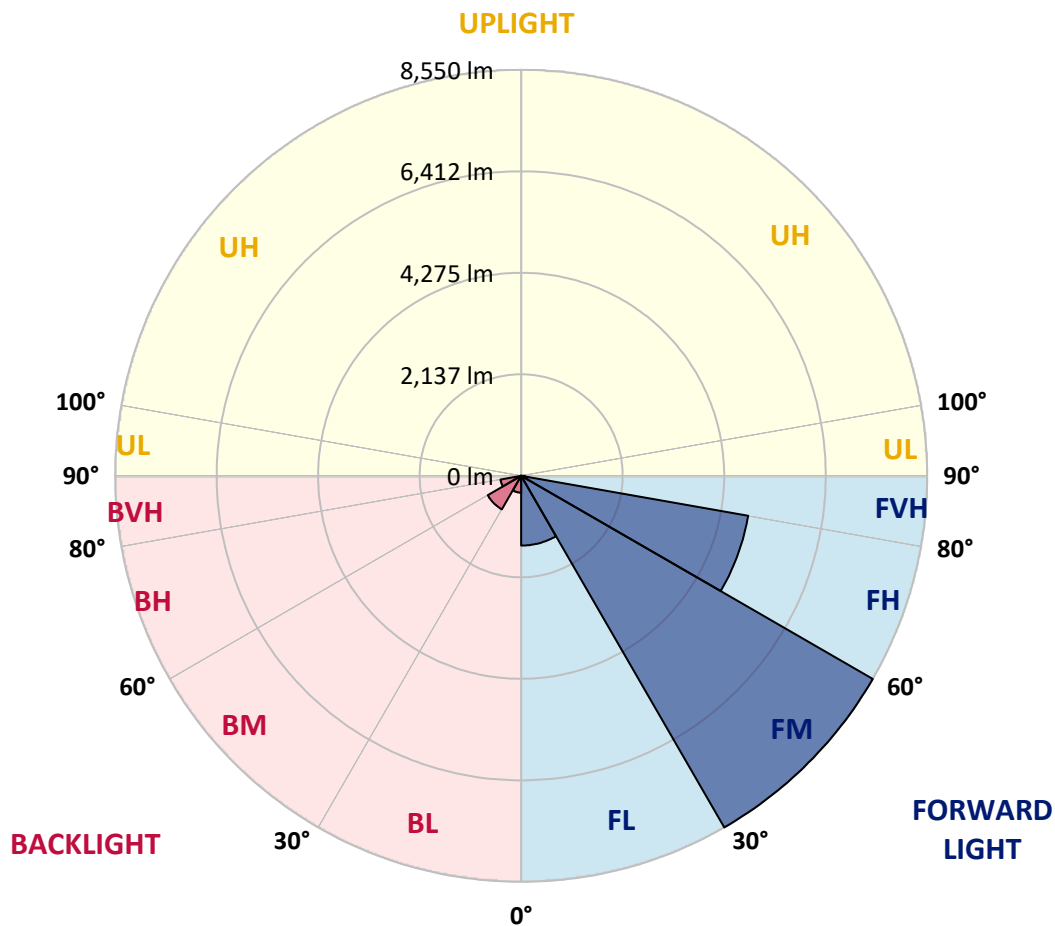
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.7	8.9			
FM	(30°-60°)	8549.7	51.6			
FH	(60°-80°)	4853.9	29.3			G2/5000
FVH	(80°-90°)	76.9	0.5			G1/100
BL	(0°-30°)	354.4	2.1	B1/500		
BM	(30°-60°)	814.3	4.9	B1/1000		
BH	(60°-80°)	444.2	2.7	B1/500		G1/500
BVH	(80°-90°)	11.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	2172.2	2154.4	2121.6	2118.7	2091.9	2059.1	2002.6	1943.1	1901.4	1895.5	1844.9
5°	2600.7	2591.8	2559.1	2538.2	2487.6	2410.3	2279.3	2148.4	2038.3	2026.4	1913.3
7.5°	2713.8	2719.7	2725.7	2746.5	2728.7	2693.0	2594.8	2410.3	2237.7	2210.9	2014.5
10°	2731.6	2725.7	2725.7	2752.5	2803.1	2853.6	2841.7	2684.0	2460.9	2428.1	2154.4
12.5°	2925.1	2934.0	2913.2	2901.3	2892.3	2919.1	3008.4	2939.9	2695.9	2669.2	2324.0
15°	3175.0	3172.0	3142.3	3142.3	3115.5	3070.9	3127.4	3178.0	2978.6	2945.9	2517.4
17.5°	3356.5	3368.4	3365.5	3383.3	3374.4	3314.9	3285.1	3389.3	3270.2	3228.6	2737.6
20°	3502.3	3535.1	3547.0	3603.5	3630.3	3588.6	3511.3	3576.7	3550.0	3511.3	2960.8
22.5°	3657.1	3683.9	3704.7	3802.9	3877.3	3868.3	3770.1	3755.3	3820.7	3785.0	3181.0
25°	3811.8	3823.7	3886.2	4005.2	4124.3	4154.0	4052.8	3936.8	4064.7	4032.0	3377.4
27.5°	3981.4	3987.4	4061.8	4207.6	4374.2	4436.7	4356.4	4142.1	4252.2	4252.2	3555.9
30°	4290.9	4350.4	4380.2	4511.1	4656.9	4743.2	4648.0	4359.3	4418.8	4445.6	3743.4
32.5°	4957.4	4966.4	4957.4	5014.0	5043.7	5094.3	4984.2	4603.3	4588.5	4618.2	3927.9
35°	5975.1	5939.4	5844.2	5760.9	5588.3	5493.1	5350.2	4915.8	4796.7	4838.4	4109.4
37.5°	7210.0	7159.4	6942.2	6686.3	6317.3	5936.4	5757.9	5296.7	5061.6	5115.1	4305.8
40°	8388.4	8355.6	8096.7	7781.3	7150.5	6498.8	6120.9	5618.0	5356.2	5377.0	4505.1
42.5°	9358.4	9352.5	9135.2	8804.9	7995.6	7105.9	6549.4	5933.4	5665.6	5698.4	4713.4
45°	10093.4	10036.9	9876.2	9638.1	8813.9	7736.7	7067.2	6412.5	6162.6	6201.3	5025.9
47.5°	10093.4	10102.3	10206.5	10182.7	9385.2	8328.8	7632.5	7016.6	6897.6	6933.3	5540.7
50°	9272.1	9355.4	9819.6	10209.5	9682.8	8790.1	8242.6	7772.4	7894.4	7948.0	6439.3
52.5°	7647.4	7787.3	8593.7	9483.4	9462.6	9022.2	8873.4	8733.5	9281.1	9376.3	7766.4
55°	5811.4	5903.7	6954.1	8123.5	8504.4	8831.7	9423.9	9953.6	11117.0	11096.2	9114.4
57.5°	4341.5	4427.8	5332.4	6629.7	7132.6	8007.5	9706.6	11349.1	12938.1	13018.5	10379.1
60°	3192.9	3258.3	4029.0	5094.3	5820.4	6745.8	9593.5	12723.9	15036.0	14943.7	11494.9
62.5°	2362.7	2398.4	2954.8	3648.1	4612.3	5496.0	8882.3	13664.2	16711.3	16523.8	12116.8
65°	1827.0	1839.0	2127.6	2496.6	3353.6	4273.0	7823.0	13807.0	17636.7	17437.3	12104.9
66°	1627.7	1636.6	1847.9	2133.5	2853.6	3740.4	7358.8	13577.9	17782.5	17571.2	11956.2
67.5°	1365.8	1359.9	1484.8	1672.3	2142.5	2886.4	6534.5	12908.4	17609.9	17502.8	11480.1
70°	1011.7	1014.7	1077.2	1121.8	1252.7	1597.9	4719.4	11197.4	16229.2	16223.2	10173.7
72.5°	749.9	758.8	806.4	815.3	782.6	865.9	2719.7	8906.1	12982.8	12985.7	7605.8
75°	562.4	577.3	592.2	598.1	568.3	547.5	1228.9	5993.0	8540.1	8477.6	4305.8
77.5°	428.5	434.4	446.3	437.4	431.5	377.9	511.8	2922.1	4216.5	3841.6	1395.6
80°	312.4	312.4	324.3	312.4	309.5	270.8	279.7	937.3	1237.9	1029.6	300.5
82.5°	196.4	193.4	202.3	199.4	193.4	172.6	163.7	261.9	285.7	255.9	145.8
85°	110.1	107.1	104.1	101.2	92.2	77.4	89.3	98.2	130.9	133.9	104.1
87.5°	38.7	38.7	35.7	32.7	26.8	26.8	32.7	32.7	47.6	47.6	53.6
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1821.1	1788.4	1740.8	1678.3	1633.6	1589.0	1541.4	1514.6	1475.9	1467.0	1478.9
5°	1853.8	1794.3	1675.3	1544.4	1431.3	1330.1	1234.9	1178.4	1121.8	1101.0	1109.9
7.5°	1922.3	1821.1	1618.8	1407.5	1220.0	1068.3	955.2	889.7	839.1	818.3	824.3
10°	2023.4	1868.7	1565.2	1252.7	1011.7	851.0	755.8	714.2	684.4	672.5	675.5
12.5°	2145.4	1937.1	1496.8	1098.0	833.2	693.3	648.7	639.8	633.8	627.9	630.8
15°	2282.3	1996.7	1416.4	946.3	693.3	616.0	601.1	598.1	595.1	595.1	595.1
17.5°	2425.2	2050.2	1327.1	803.4	604.1	568.3	559.4	559.4	559.4	562.4	562.4
20°	2559.1	2091.9	1223.0	675.5	553.5	523.7	517.8	517.8	520.7	523.7	523.7
22.5°	2690.0	2109.7	1101.0	586.2	511.8	485.0	476.1	476.1	476.1	479.1	479.1
25°	2803.1	2109.7	979.0	529.7	476.1	449.3	437.4	434.4	437.4	437.4	437.4
27.5°	2898.3	2100.8	860.0	491.0	440.4	413.6	401.7	398.7	404.7	407.7	407.7
30°	2999.5	2088.9	764.7	455.3	410.6	383.9	372.0	372.0	380.9	392.8	392.8
32.5°	3097.7	2097.8	690.4	425.5	380.9	360.1	348.2	351.1	369.0	386.8	386.8
35°	3201.8	2115.7	645.7	404.7	360.1	339.2	330.3	339.2	357.1	374.9	374.9
37.5°	3305.9	2136.5	618.9	386.8	342.2	321.4	315.4	327.3	348.2	366.0	369.0
40°	3416.0	2154.4	589.2	369.0	330.3	306.5	303.5	315.4	342.2	360.1	363.0
42.5°	3552.9	2190.1	553.5	354.1	318.4	288.6	291.6	300.5	327.3	354.1	357.1
45°	3820.7	2303.2	517.8	339.2	303.5	279.7	273.8	279.7	309.5	339.2	345.2
47.5°	4323.6	2559.1	479.1	324.3	288.6	273.8	250.0	255.9	282.7	315.4	318.4
50°	5287.7	3103.6	458.3	309.5	276.7	252.9	226.1	226.1	247.0	276.7	276.7
52.5°	6790.4	4079.6	470.2	297.6	261.9	232.1	205.3	202.3	214.2	235.1	235.1
55°	8412.2	5150.9	514.8	285.7	244.0	220.2	190.4	175.6	184.5	196.4	196.4
57.5°	9697.6	5689.4	636.8	279.7	223.2	211.3	172.6	151.8	160.7	172.6	172.6
60°	10263.0	5374.0	773.7	285.7	208.3	196.4	154.7	133.9	148.8	160.7	163.7
62.5°	9804.8	4424.8	830.2	270.8	187.5	175.6	151.8	125.0	142.8	151.8	154.7
65°	8813.9	3362.5	648.7	235.1	172.6	151.8	136.9	119.0	133.9	142.8	142.8
66°	8343.7	2931.0	553.5	217.2	166.6	142.8	130.9	119.0	130.9	136.9	139.9
67.5°	7614.7	2312.1	410.6	190.4	154.7	130.9	122.0	113.1	125.0	130.9	130.9
70°	5954.3	1377.7	247.0	148.8	133.9	116.1	110.1	104.1	113.1	116.1	116.1
72.5°	3728.5	654.6	157.7	110.1	113.1	110.1	92.2	98.2	101.2	104.1	104.1
75°	1806.2	258.9	107.1	80.3	92.2	104.1	74.4	86.3	89.3	95.2	92.2
77.5°	502.9	125.0	68.4	59.5	80.3	80.3	56.5	68.4	80.3	101.2	92.2
80°	145.8	80.3	44.6	44.6	56.5	56.5	38.7	47.6	53.6	59.5	62.5
82.5°	101.2	53.6	29.8	32.7	32.7	35.7	23.8	23.8	29.8	29.8	32.7
85°	80.3	23.8	17.9	20.8	14.9	17.9	11.9	11.9	14.9	11.9	11.9
87.5°	32.7	11.9	11.9	11.9	8.9	8.9	6.0	3.0	3.0	3.0	3.0
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)