

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: P1211192

Luminaire Tested: **ARCH4-200-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211192
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: ARCH4-200-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 20954 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 203.7
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



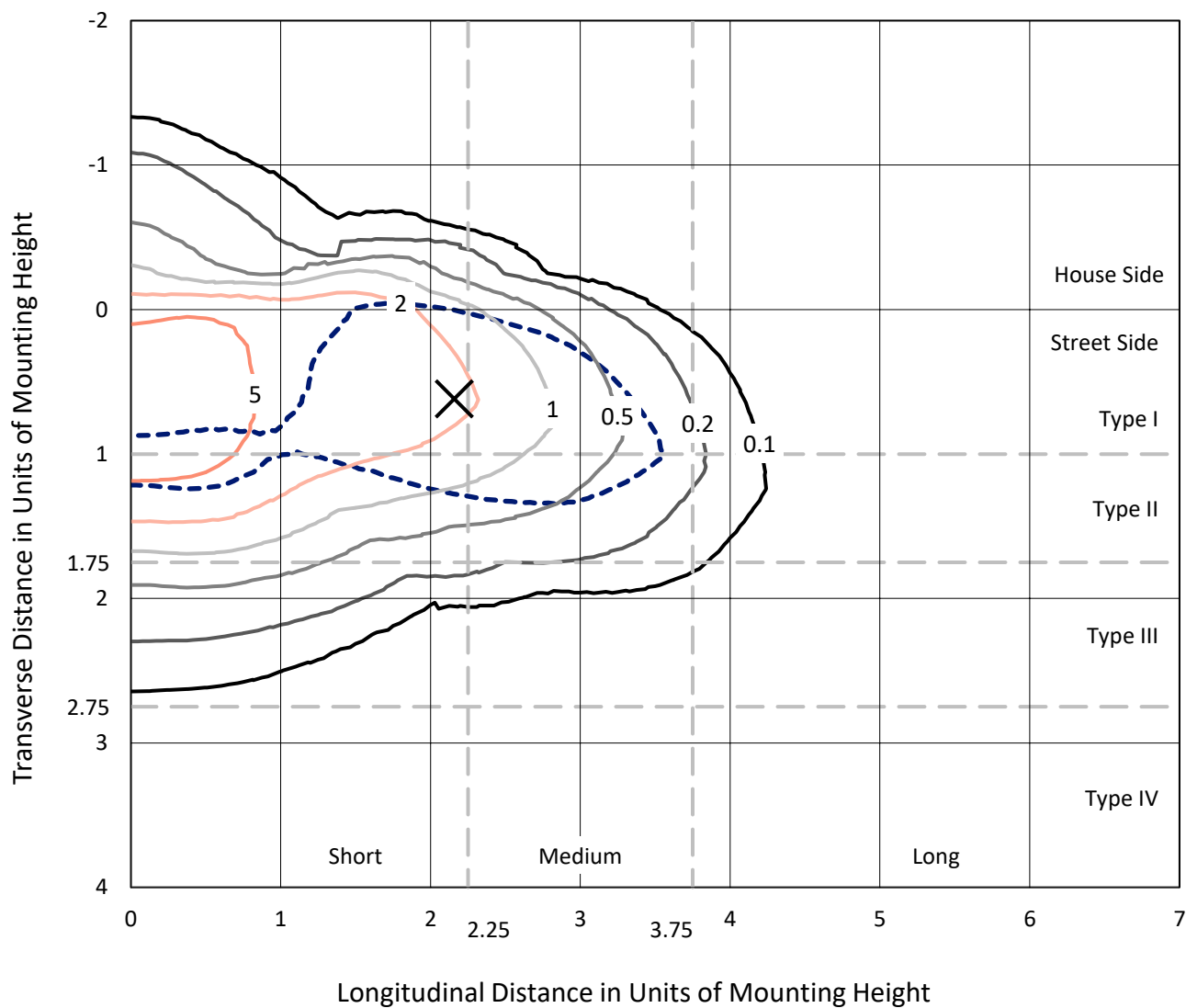
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

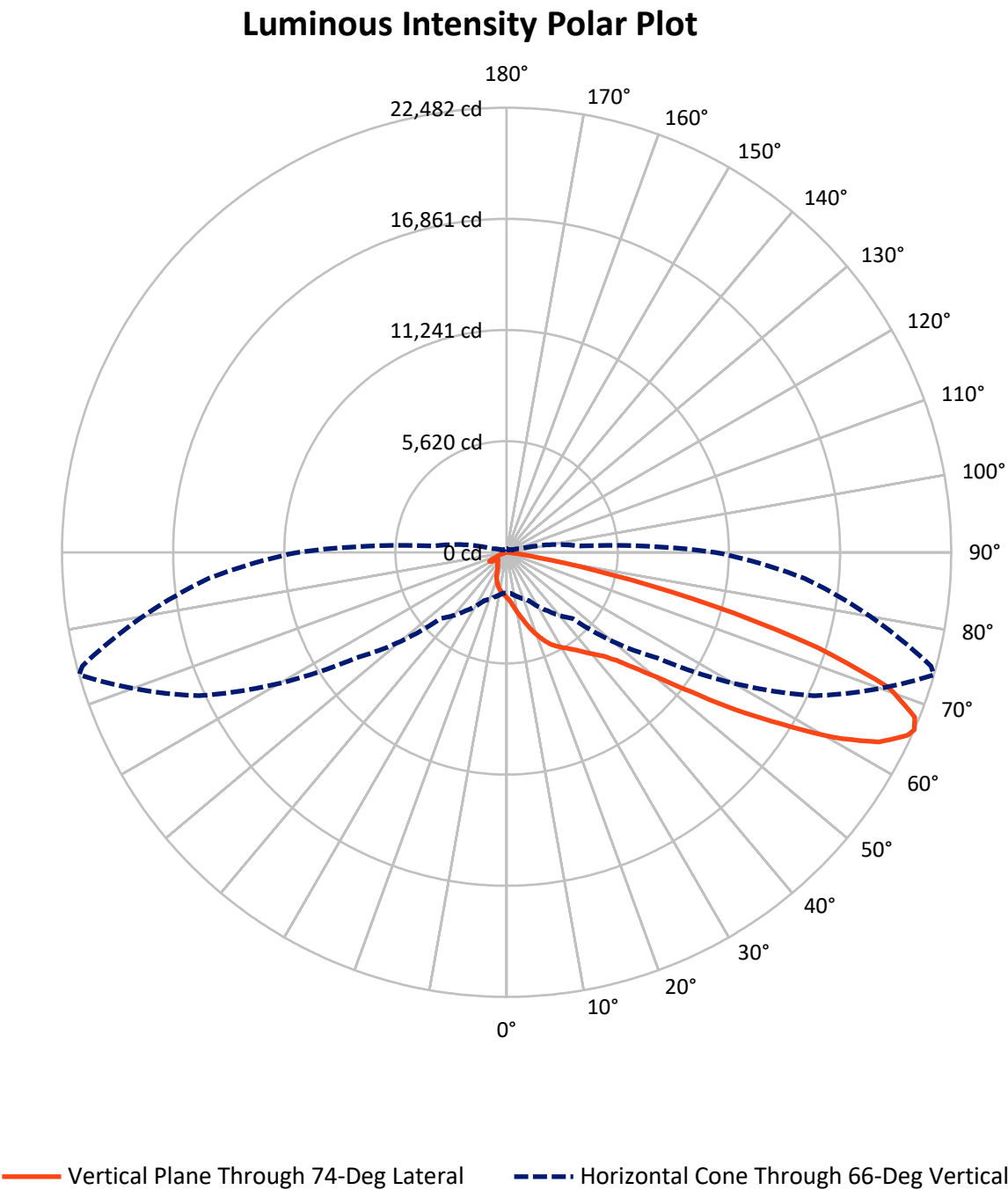
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2054.2	0.0	2054.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18899.8	0.0	18899.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	20954.0	0.0	20954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.3	1.1
10°-20°	715.7	3.4
20°-30°	1365.9	6.5
30°-40°	2394.1	11.4
40°-50°	4105.3	19.6
50°-60°	5339.2	25.5
60°-70°	4833.3	23.1
70°-80°	1865.0	8.9
80°-90°	112.2	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°	20954.0	100.0
0°-180°	20954.0	100.0

Coefficient of Utilization



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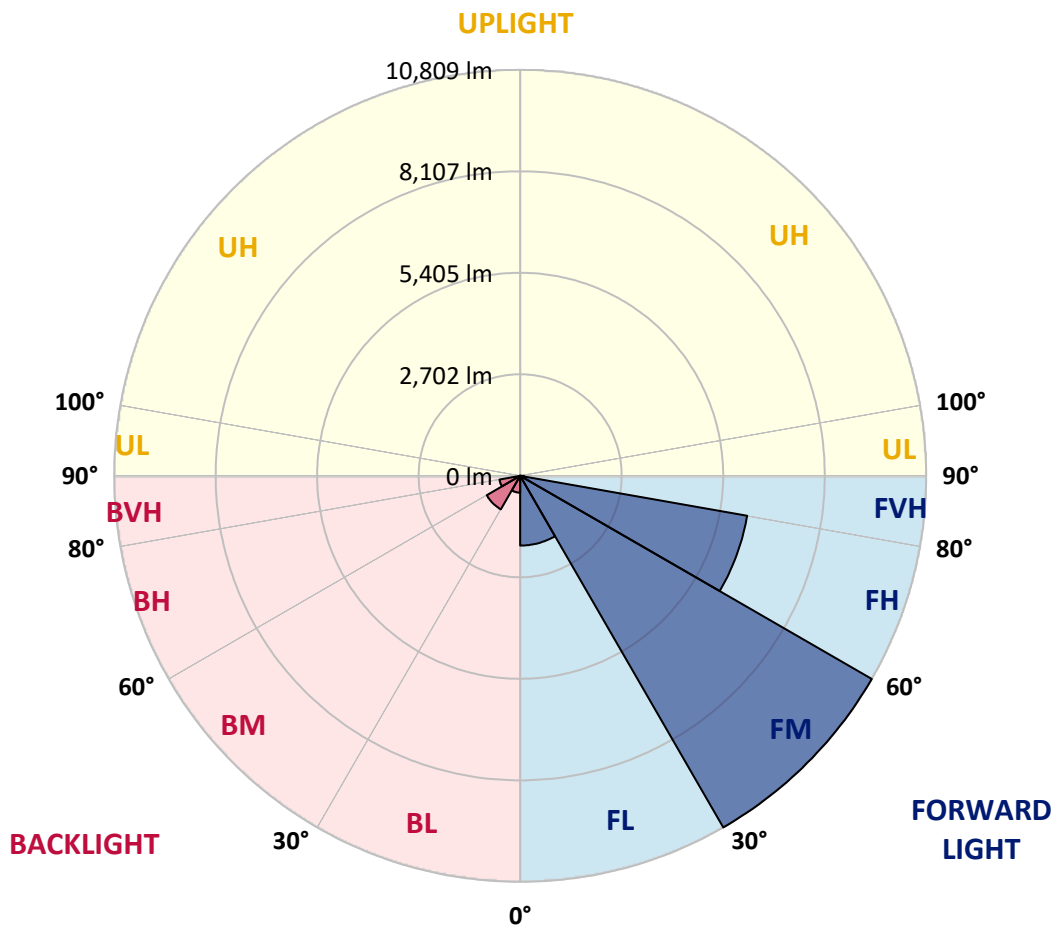
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1856.8	8.9			
FM	(30°-60°)	10809.1	51.6			
FH	(60°-80°)	6136.7	29.3			G3/7500
FVH	(80°-90°)	97.2	0.5			G1/100
BL	(0°-30°)	448.1	2.1	B1/500		
BM	(30°-60°)	1029.5	4.9	B2/2500		
BH	(60°-80°)	561.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	15.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3
2.5°	2746.3	2723.7	2682.3	2678.6	2644.7	2603.3	2531.8	2456.6	2403.9	2396.4	2332.5
5°	3288.0	3276.7	3235.3	3209.0	3145.1	3047.2	2881.7	2716.2	2577.0	2561.9	2419.0
7.5°	3431.0	3438.5	3446.0	3472.3	3449.8	3404.6	3280.5	3047.2	2829.0	2795.2	2546.9
10°	3453.5	3446.0	3446.0	3479.9	3543.8	3607.8	3592.7	3393.3	3111.2	3069.8	2723.7
12.5°	3698.1	3709.4	3683.0	3668.0	3656.7	3690.5	3803.4	3716.9	3408.4	3374.5	2938.1
15°	4014.1	4010.3	3972.7	3972.7	3938.8	3882.4	3953.9	4017.8	3765.8	3724.4	3182.7
17.5°	4243.6	4258.6	4254.8	4277.4	4266.1	4190.9	4153.3	4284.9	4134.5	4081.8	3461.1
20°	4427.9	4469.3	4484.3	4555.8	4589.7	4537.0	4439.2	4522.0	4488.1	4439.2	3743.2
22.5°	4623.5	4657.4	4683.7	4807.9	4901.9	4890.6	4766.5	4747.7	4830.4	4785.3	4021.6
25°	4819.2	4834.2	4913.2	5063.7	5214.2	5251.8	5123.9	4977.2	5138.9	5097.5	4269.9
27.5°	5033.6	5041.1	5135.2	5319.5	5530.2	5609.2	5507.6	5236.7	5375.9	5375.9	4495.6
30°	5424.8	5500.1	5537.7	5703.2	5887.6	5996.7	5876.3	5511.4	5586.6	5620.5	4732.6
32.5°	6267.5	6278.8	6267.5	6339.0	6376.6	6440.6	6301.4	5819.9	5801.0	5838.7	4965.9
35°	7554.1	7509.0	7388.6	7283.3	7065.1	6944.7	6764.1	6214.9	6064.4	6117.1	5195.4
37.5°	9115.4	9051.4	8776.8	8453.3	7986.8	7505.2	7279.5	6696.4	6399.2	6466.9	5443.6
40°	10605.1	10563.8	10236.5	9837.7	9040.1	8216.3	7738.5	7102.7	6771.6	6798.0	5695.7
42.5°	11831.6	11824.0	11549.4	11131.8	10108.6	8983.7	8280.2	7501.5	7162.9	7204.3	5959.0
45°	12760.8	12689.3	12486.2	12185.2	11143.1	9781.3	8934.8	8107.2	7791.2	7840.1	6354.1
47.5°	12760.8	12772.1	12903.7	12873.6	11865.4	10529.9	9649.6	8870.9	8720.4	8765.5	7004.9
50°	11722.5	11827.8	12414.7	12907.5	12241.6	11113.0	10420.8	9826.4	9980.6	10048.4	8141.0
52.5°	9668.4	9845.2	10864.7	11989.6	11963.2	11406.5	11218.4	11041.5	11733.8	11854.1	9818.9
55°	7347.2	7463.9	8791.8	10270.3	10751.9	11165.7	11914.3	12584.0	14054.9	14028.6	11523.1
57.5°	5488.8	5597.9	6741.5	8381.8	9017.6	10123.6	12271.7	14348.4	16357.3	16458.9	13121.9
60°	4036.7	4119.4	5093.8	6440.6	7358.5	8528.5	12128.8	16086.4	19009.5	18892.9	14532.7
62.5°	2987.0	3032.2	3735.7	4612.2	5831.1	6948.5	11229.6	17275.2	21127.5	20890.5	15319.0
65°	2309.9	2324.9	2689.8	3156.3	4239.8	5402.3	9890.4	17455.8	22297.5	22045.5	15303.9
66°	2057.8	2069.1	2336.2	2697.4	3607.8	4728.9	9303.5	17166.1	22481.9	22214.7	15115.8
67.5°	1726.8	1719.2	1877.2	2114.3	2708.7	3649.2	8261.4	16319.7	22263.7	22128.2	14513.9
70°	1279.1	1282.8	1361.9	1418.3	1583.8	2020.2	5966.6	14156.5	20518.1	20510.6	12862.4
72.5°	948.0	959.3	1019.5	1030.8	989.4	1094.7	3438.5	11259.7	16413.7	16417.5	9615.7
75°	711.0	729.8	748.6	756.2	718.5	692.2	1553.7	7576.7	10797.0	10718.0	5443.6
77.5°	541.7	549.3	564.3	553.0	545.5	477.8	647.1	3694.3	5330.8	4856.8	1764.4
80°	395.0	395.0	410.1	395.0	391.3	342.3	353.6	1185.0	1565.0	1301.7	380.0
82.5°	248.3	244.5	255.8	252.1	244.5	218.2	206.9	331.1	361.2	323.5	184.3
85°	139.2	135.4	131.7	127.9	116.6	97.8	112.9	124.1	165.5	169.3	131.7
87.5°	48.9	48.9	45.1	41.4	33.9	33.9	41.4	41.4	60.2	60.2	67.7
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°	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3
2.5°	2302.4	2261.0	2200.8	2121.8	2065.4	2008.9	1948.7	1914.9	1866.0	1854.7	1869.7
5°	2343.7	2268.5	2118.0	1952.5	1809.5	1681.6	1561.2	1489.8	1418.3	1391.9	1403.2
7.5°	2430.3	2302.4	2046.5	1779.4	1542.4	1350.6	1207.6	1124.8	1060.9	1034.6	1042.1
10°	2558.2	2362.6	1978.8	1583.8	1279.1	1075.9	955.6	902.9	865.3	850.2	854.0
12.5°	2712.4	2449.1	1892.3	1388.2	1053.4	876.6	820.1	808.8	801.3	793.8	797.5
15°	2885.5	2524.3	1790.7	1196.3	876.6	778.7	759.9	756.2	752.4	752.4	752.4
17.5°	3066.0	2592.0	1677.9	1015.7	763.7	718.5	707.3	707.3	707.3	711.0	711.0
20°	3235.3	2644.7	1546.2	854.0	699.7	662.1	654.6	654.6	658.4	662.1	662.1
22.5°	3400.9	2667.3	1391.9	741.1	647.1	613.2	601.9	601.9	601.9	605.7	605.7
25°	3543.8	2667.3	1237.7	669.6	601.9	568.1	553.0	549.3	553.0	553.0	553.0
27.5°	3664.2	2656.0	1087.2	620.7	556.8	522.9	507.9	504.1	511.6	515.4	515.4
30°	3792.1	2640.9	966.8	575.6	519.2	485.3	470.3	470.3	481.5	496.6	496.6
32.5°	3916.3	2652.2	872.8	538.0	481.5	455.2	440.2	443.9	466.5	489.1	489.1
35°	4047.9	2674.8	816.4	511.6	455.2	428.9	417.6	428.9	451.4	474.0	474.0
37.5°	4179.6	2701.1	782.5	489.1	432.6	406.3	398.8	413.8	440.2	462.7	466.5
40°	4318.8	2723.7	744.9	466.5	417.6	387.5	383.7	398.8	432.6	455.2	459.0
42.5°	4491.9	2768.8	699.7	447.7	402.5	364.9	368.7	380.0	413.8	447.7	451.4
45°	4830.4	2911.8	654.6	428.9	383.7	353.6	346.1	353.6	391.3	428.9	436.4
47.5°	5466.2	3235.3	605.7	410.1	364.9	346.1	316.0	323.5	357.4	398.8	402.5
50°	6685.1	3923.8	579.4	391.3	349.9	319.8	285.9	285.9	312.2	349.9	349.9
52.5°	8584.9	5157.7	594.4	376.2	331.1	293.4	259.6	255.8	270.9	297.2	297.2
55°	10635.2	6512.1	650.8	361.2	308.5	278.4	240.8	222.0	233.2	248.3	248.3
57.5°	12260.4	7193.0	805.1	353.6	282.2	267.1	218.2	191.9	203.1	218.2	218.2
60°	12975.2	6794.2	978.1	361.2	263.3	248.3	195.6	169.3	188.1	203.1	206.9
62.5°	12395.9	5594.1	1049.6	342.3	237.0	222.0	191.9	158.0	180.6	191.9	195.6
65°	11143.1	4251.1	820.1	297.2	218.2	191.9	173.1	150.5	169.3	180.6	180.6
66°	10548.7	3705.6	699.7	274.6	210.7	180.6	165.5	150.5	165.5	173.1	176.8
67.5°	9627.0	2923.1	519.2	240.8	195.6	165.5	154.2	143.0	158.0	165.5	165.5
70°	7527.8	1741.8	312.2	188.1	169.3	146.7	139.2	131.7	143.0	146.7	146.7
72.5°	4713.8	827.6	199.4	139.2	143.0	139.2	116.6	124.1	127.9	131.7	131.7
75°	2283.5	327.3	135.4	101.6	116.6	131.7	94.1	109.1	112.9	120.4	116.6
77.5°	635.8	158.0	86.5	75.2	101.6	101.6	71.5	86.5	101.6	127.9	116.6
80°	184.3	101.6	56.4	56.4	71.5	71.5	48.9	60.2	67.7	75.2	79.0
82.5°	127.9	67.7	37.6	41.4	41.4	45.1	30.1	30.1	37.6	37.6	41.4
85°	101.6	30.1	22.6	26.3	18.8	22.6	15.0	15.0	18.8	15.0	15.0
87.5°	41.4	15.0	15.0	15.0	11.3	11.3	7.5	3.8	3.8	3.8	3.8
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)