

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: P1211508

Luminaire Tested: **ARCH4-300-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211508
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: ARCH4-300-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA 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: 25436 lumens
Efficiency: N/A
Efficacy: 85.0 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

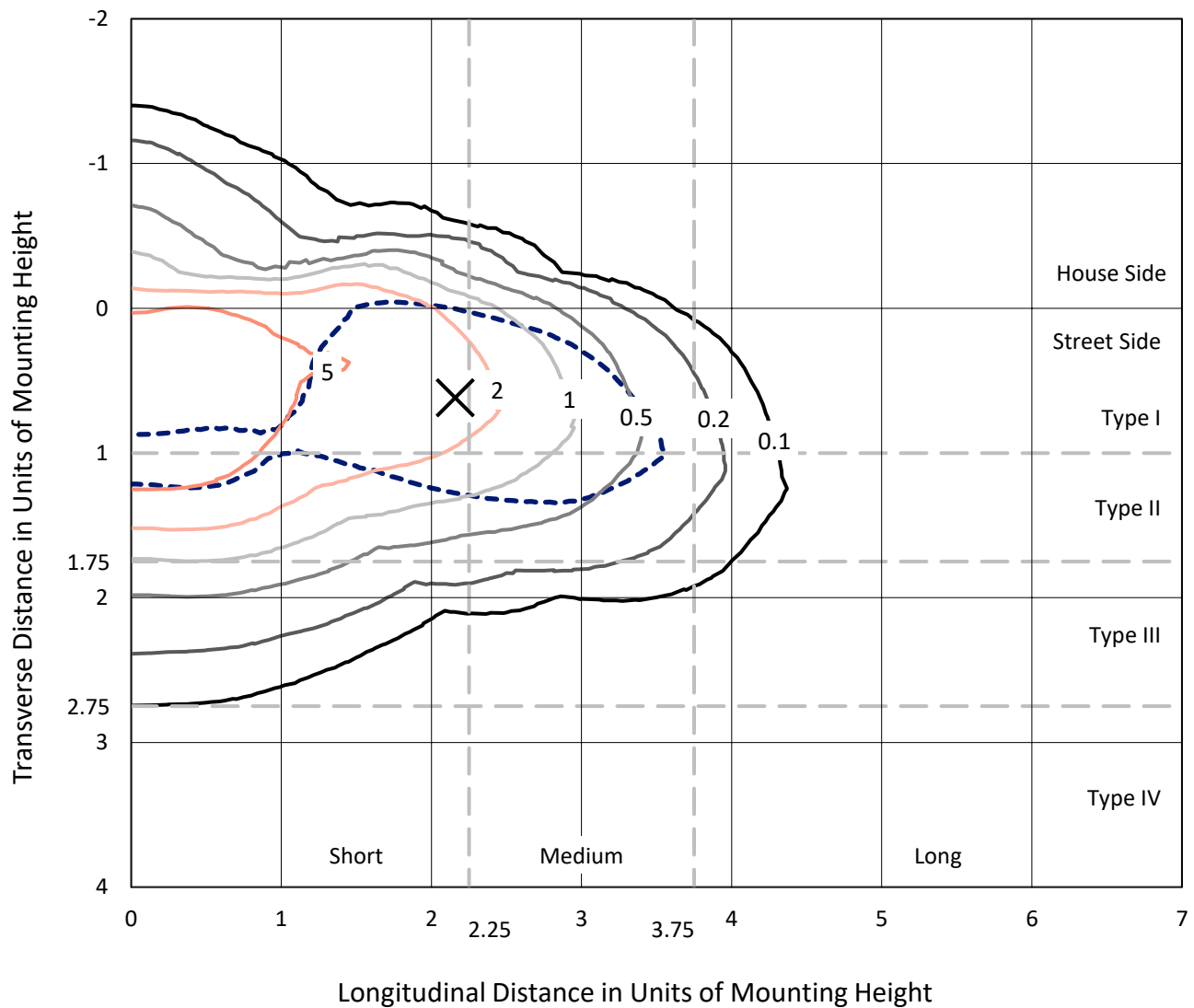
Input Watts (W): 299.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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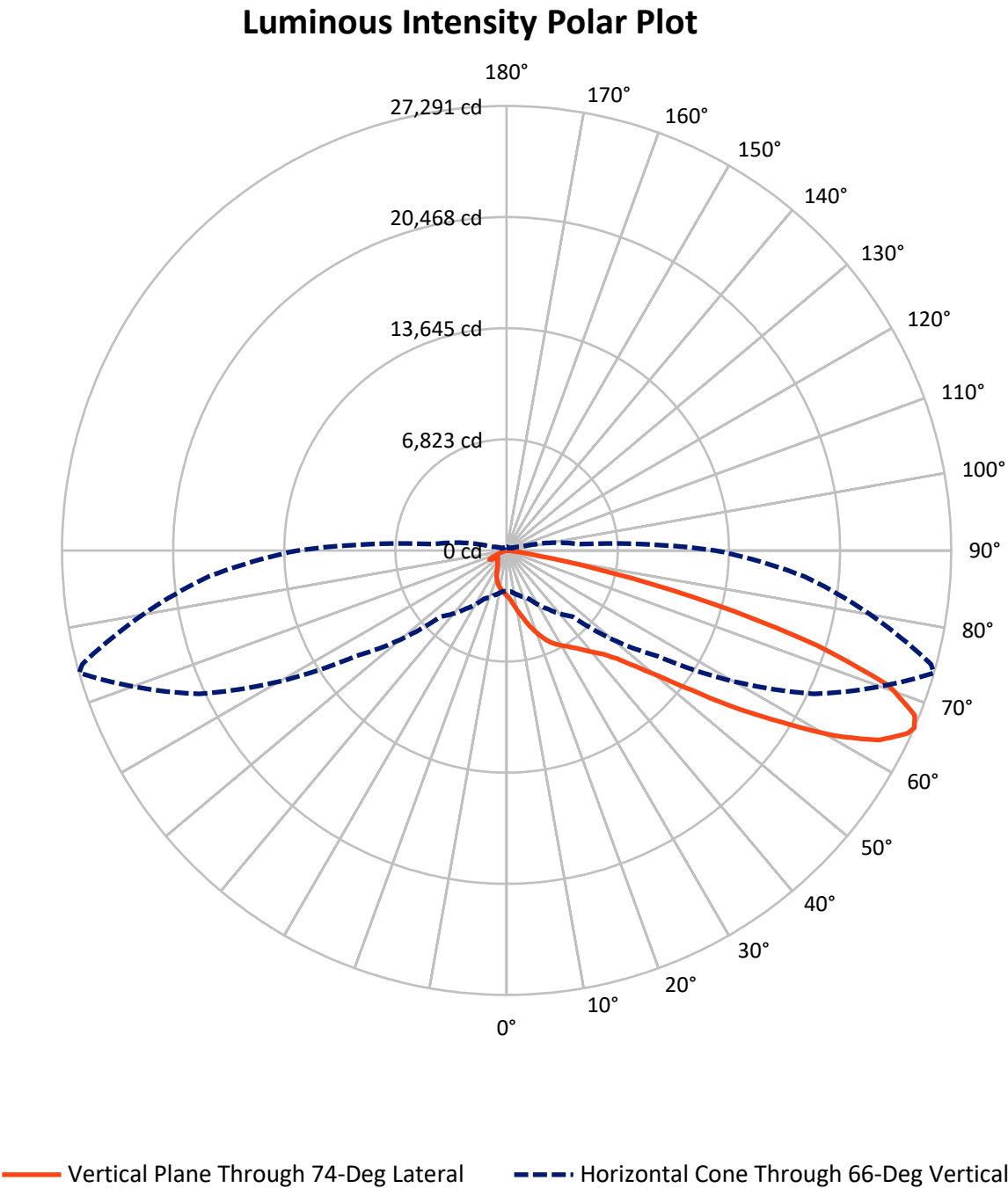
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2493.5	0.0	2493.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22942.5	0.0	22942.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	25436.0	0.0	25436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	1.1
10°-20°	868.8	3.4
20°-30°	1658.1	6.5
30°-40°	2906.2	11.4
40°-50°	4983.4	19.6
50°-60°	6481.3	25.5
60°-70°	5867.1	23.1
70°-80°	2263.9	8.9
80°-90°	136.2	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°	25436.0	100.0
0°-180°	25436.0	100.0

Coefficient of Utilization



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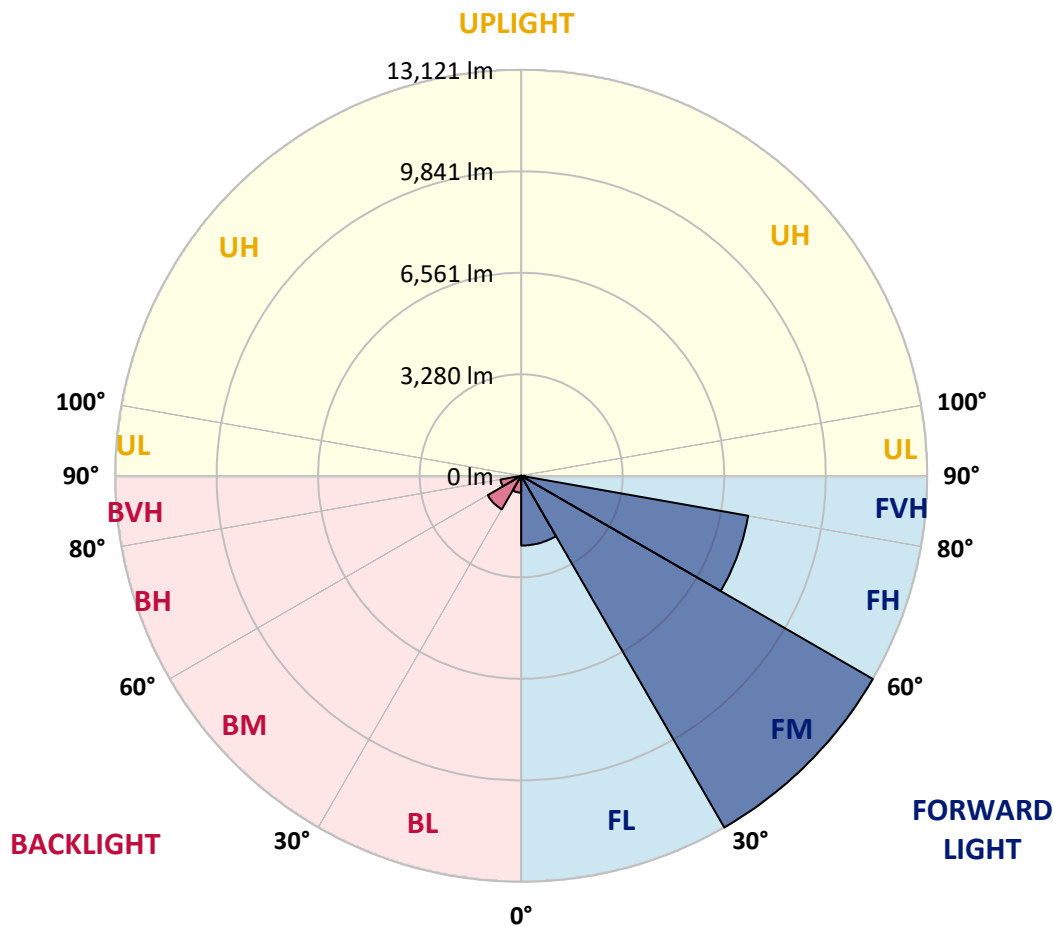
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2254.0	8.9			
FM	(30°-60°)	13121.2	51.6			
FH	(60°-80°)	7449.3	29.3			G3/7500
FVH	(80°-90°)	118.0	0.5			G2/225
BL	(0°-30°)	543.9	2.1	B2/1000		
BM	(30°-60°)	1249.7	4.9	B2/2500		
BH	(60°-80°)	681.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	18.3	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°	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6
2.5°	3333.7	3306.3	3256.1	3251.5	3210.4	3160.2	3073.4	2982.1	2918.1	2909.0	2831.4
5°	3991.3	3977.6	3927.4	3895.4	3817.8	3699.0	3498.1	3297.2	3128.2	3109.9	2936.4
7.5°	4164.8	4174.0	4183.1	4215.1	4187.7	4132.9	3982.2	3699.0	3434.2	3393.1	3091.7
10°	4192.2	4183.1	4183.1	4224.2	4301.8	4379.5	4361.2	4119.2	3776.7	3726.4	3306.3
12.5°	4489.1	4502.8	4470.8	4452.5	4438.8	4479.9	4616.9	4511.9	4137.4	4096.3	3566.6
15°	4872.7	4868.1	4822.4	4822.4	4781.3	4712.8	4799.6	4877.2	4571.3	4521.0	3863.4
17.5°	5151.2	5169.5	5164.9	5192.3	5178.6	5087.3	5041.6	5201.5	5018.8	4954.9	4201.4
20°	5375.0	5425.3	5443.5	5530.3	5571.4	5507.5	5388.7	5489.2	5448.1	5388.7	4543.9
22.5°	5612.5	5653.6	5685.6	5836.3	5950.4	5936.7	5786.0	5763.2	5863.7	5808.9	4881.8
25°	5850.0	5868.2	5964.1	6146.8	6329.5	6375.1	6219.9	6041.8	6238.1	6187.9	5183.2
27.5°	6110.3	6119.4	6233.6	6457.3	6713.1	6809.0	6685.7	6356.9	6525.8	6525.8	5457.2
30°	6585.2	6676.5	6722.2	6923.1	7146.9	7279.3	7133.2	6690.2	6781.6	6822.7	5744.9
32.5°	7608.1	7621.8	7608.1	7694.9	7740.6	7818.2	7649.2	7064.7	7041.9	7087.5	6028.1
35°	9170.0	9115.2	8969.0	8841.1	8576.3	8430.1	8210.9	7544.2	7361.5	7425.5	6306.6
37.5°	11065.1	10987.5	10654.1	10261.4	9695.1	9110.6	8836.6	8128.7	7768.0	7850.2	6608.0
40°	12873.6	12823.3	12426.0	11941.9	10973.8	9973.7	9393.7	8621.9	8220.1	8252.0	6914.0
42.5°	14362.3	14353.2	14019.8	13512.9	12270.7	10905.3	10051.3	9106.0	8695.0	8745.2	7233.7
45°	15490.3	15403.5	15156.9	14791.6	13526.6	11873.4	10845.9	9841.3	9457.7	9517.0	7713.2
47.5°	15490.3	15504.0	15663.8	15627.3	14403.4	12782.2	11713.6	10768.3	10585.6	10640.4	8503.2
50°	14229.9	14357.7	15070.1	15668.4	14860.1	13490.1	12649.8	11928.2	12115.5	12197.7	9882.4
52.5°	11736.4	11951.1	13188.7	14554.1	14522.1	13846.3	13617.9	13403.3	14243.6	14389.7	11919.1
55°	8918.8	9060.4	10672.4	12467.1	13051.7	13554.0	14462.8	15275.6	17061.2	17029.3	13987.8
57.5°	6662.8	6795.3	8183.5	10174.6	10946.4	12289.0	14896.6	17417.4	19856.1	19979.4	15928.7
60°	4900.1	5000.5	6183.3	7818.2	8932.5	10352.7	14723.1	19527.2	23075.6	22934.0	17641.2
62.5°	3626.0	3680.8	4534.7	5598.8	7078.4	8434.7	13631.6	20970.3	25646.6	25358.9	18595.6
65°	2804.0	2822.2	3265.2	3831.5	5146.7	6557.8	12005.9	21189.5	27066.9	26760.9	18577.4
66°	2498.0	2511.7	2835.9	3274.3	4379.5	5740.4	11293.5	20837.9	27290.7	26966.4	18349.0
67.5°	2096.1	2087.0	2278.8	2566.5	3288.0	4429.7	10028.5	19810.4	27025.8	26861.4	17618.4
70°	1552.7	1557.2	1653.1	1721.6	1922.6	2452.3	7242.8	17184.5	24906.8	24897.7	15613.6
72.5°	1150.8	1164.5	1237.6	1251.3	1201.0	1328.9	4174.0	13668.2	19924.6	19929.1	11672.5
75°	863.1	885.9	908.8	917.9	872.2	840.3	1886.1	9197.4	13106.5	13010.6	6608.0
77.5°	657.6	666.7	685.0	671.3	662.2	580.0	785.5	4484.5	6471.0	5895.6	2141.8
80°	479.5	479.5	497.8	479.5	474.9	415.6	429.3	1438.5	1899.8	1580.1	461.2
82.5°	301.4	296.8	310.5	306.0	296.8	264.9	251.2	401.9	438.4	392.7	223.8
85°	169.0	164.4	159.8	155.3	141.6	118.7	137.0	150.7	200.9	205.5	159.8
87.5°	59.4	59.4	54.8	50.2	41.1	41.1	50.2	50.2	73.1	73.1	82.2
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°	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6	2776.6
2.5°	2794.8	2744.6	2671.5	2575.6	2507.1	2438.6	2365.6	2324.5	2265.1	2251.4	2269.7
5°	2845.1	2753.7	2571.1	2370.1	2196.6	2041.3	1895.2	1808.4	1721.6	1689.7	1703.4
7.5°	2950.1	2794.8	2484.3	2160.1	1872.4	1639.4	1465.9	1365.4	1287.8	1255.8	1265.0
10°	3105.4	2867.9	2402.1	1922.6	1552.7	1306.1	1159.9	1096.0	1050.3	1032.1	1036.6
12.5°	3292.6	2972.9	2297.1	1685.1	1278.7	1064.0	995.5	981.8	972.7	963.6	968.1
15°	3502.7	3064.3	2173.8	1452.2	1064.0	945.3	922.5	917.9	913.3	913.3	913.3
17.5°	3721.9	3146.5	2036.8	1233.0	927.0	872.2	858.5	858.5	858.5	863.1	863.1
20°	3927.4	3210.4	1876.9	1036.6	849.4	803.7	794.6	794.6	799.2	803.7	803.7
22.5°	4128.3	3237.8	1689.7	899.6	785.5	744.4	730.7	730.7	730.7	735.2	735.2
25°	4301.8	3237.8	1502.4	812.9	730.7	689.6	671.3	666.7	671.3	671.3	671.3
27.5°	4448.0	3224.1	1319.8	753.5	675.9	634.8	616.5	611.9	621.1	625.6	625.6
30°	4603.2	3205.8	1173.6	698.7	630.2	589.1	570.8	570.8	584.5	602.8	602.8
32.5°	4753.9	3219.5	1059.5	653.0	584.5	552.6	534.3	538.9	566.3	593.7	593.7
35°	4913.8	3246.9	991.0	621.1	552.6	520.6	506.9	520.6	548.0	575.4	575.4
37.5°	5073.6	3278.9	949.9	593.7	525.2	493.2	484.1	502.3	534.3	561.7	566.3
40°	5242.6	3306.3	904.2	566.3	506.9	470.4	465.8	484.1	525.2	552.6	557.1
42.5°	5452.7	3361.1	849.4	543.4	488.6	443.0	447.5	461.2	502.3	543.4	548.0
45°	5863.7	3534.6	794.6	520.6	465.8	429.3	420.1	429.3	474.9	520.6	529.7
47.5°	6635.4	3927.4	735.2	497.8	443.0	420.1	383.6	392.7	433.8	484.1	488.6
50°	8115.0	4763.1	703.3	474.9	424.7	388.2	347.1	347.1	379.0	424.7	424.7
52.5°	10421.2	6261.0	721.5	456.7	401.9	356.2	315.1	310.5	328.8	360.8	360.8
55°	12910.1	7905.0	790.0	438.4	374.5	337.9	292.3	269.4	283.1	301.4	301.4
57.5°	14882.9	8731.5	977.3	429.3	342.5	324.2	264.9	232.9	246.6	264.9	264.9
60°	15750.6	8247.5	1187.3	438.4	319.7	301.4	237.5	205.5	228.3	246.6	251.2
62.5°	15047.3	6790.7	1274.1	415.6	287.7	269.4	232.9	191.8	219.2	232.9	237.5
65°	13526.6	5160.4	995.5	360.8	264.9	232.9	210.1	182.7	205.5	219.2	219.2
66°	12805.1	4498.2	849.4	333.4	255.7	219.2	200.9	182.7	200.9	210.1	214.6
67.5°	11686.2	3548.3	630.2	292.3	237.5	200.9	187.2	173.5	191.8	200.9	200.9
70°	9138.0	2114.4	379.0	228.3	205.5	178.1	169.0	159.8	173.5	178.1	178.1
72.5°	5722.1	1004.7	242.0	169.0	173.5	169.0	141.6	150.7	155.3	159.8	159.8
75°	2772.0	397.3	164.4	123.3	141.6	159.8	114.2	132.4	137.0	146.1	141.6
77.5°	771.8	191.8	105.0	91.3	123.3	123.3	86.8	105.0	123.3	155.3	141.6
80°	223.8	123.3	68.5	68.5	86.8	86.8	59.4	73.1	82.2	91.3	95.9
82.5°	155.3	82.2	45.7	50.2	50.2	54.8	36.5	36.5	45.7	45.7	50.2
85°	123.3	36.5	27.4	32.0	22.8	27.4	18.3	18.3	22.8	18.3	18.3
87.5°	50.2	18.3	18.3	18.3	13.7	13.7	9.1	4.6	4.6	4.6	4.6
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)