

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: P1211164

Luminaire Tested: **ARCH4-190-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211164
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: ARCH4-190-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA 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: 20698 lumens
Efficiency: N/A
Efficacy: 108.9 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): 190
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



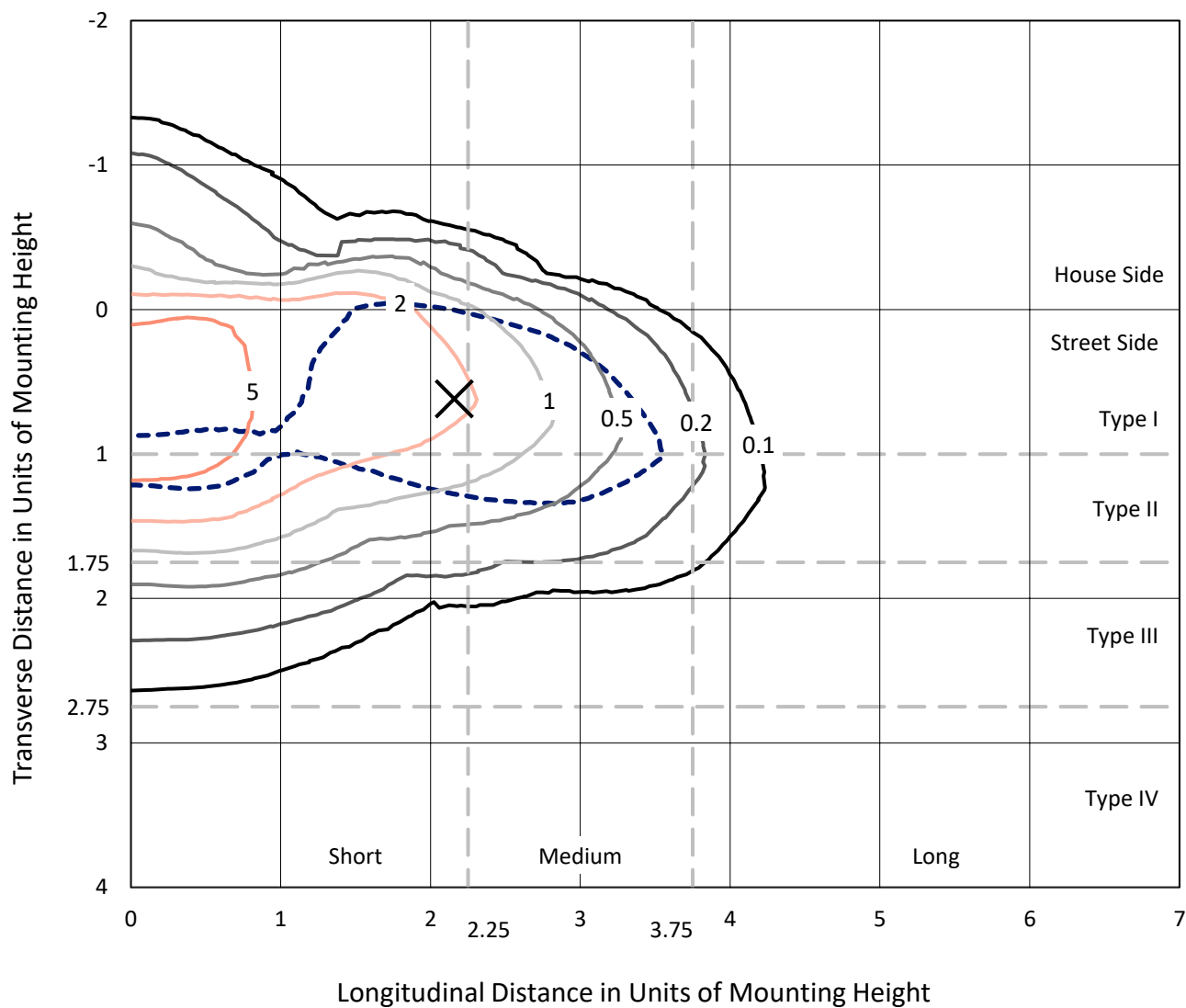
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Iso-Footcandle Lines of Horizontal Illumination

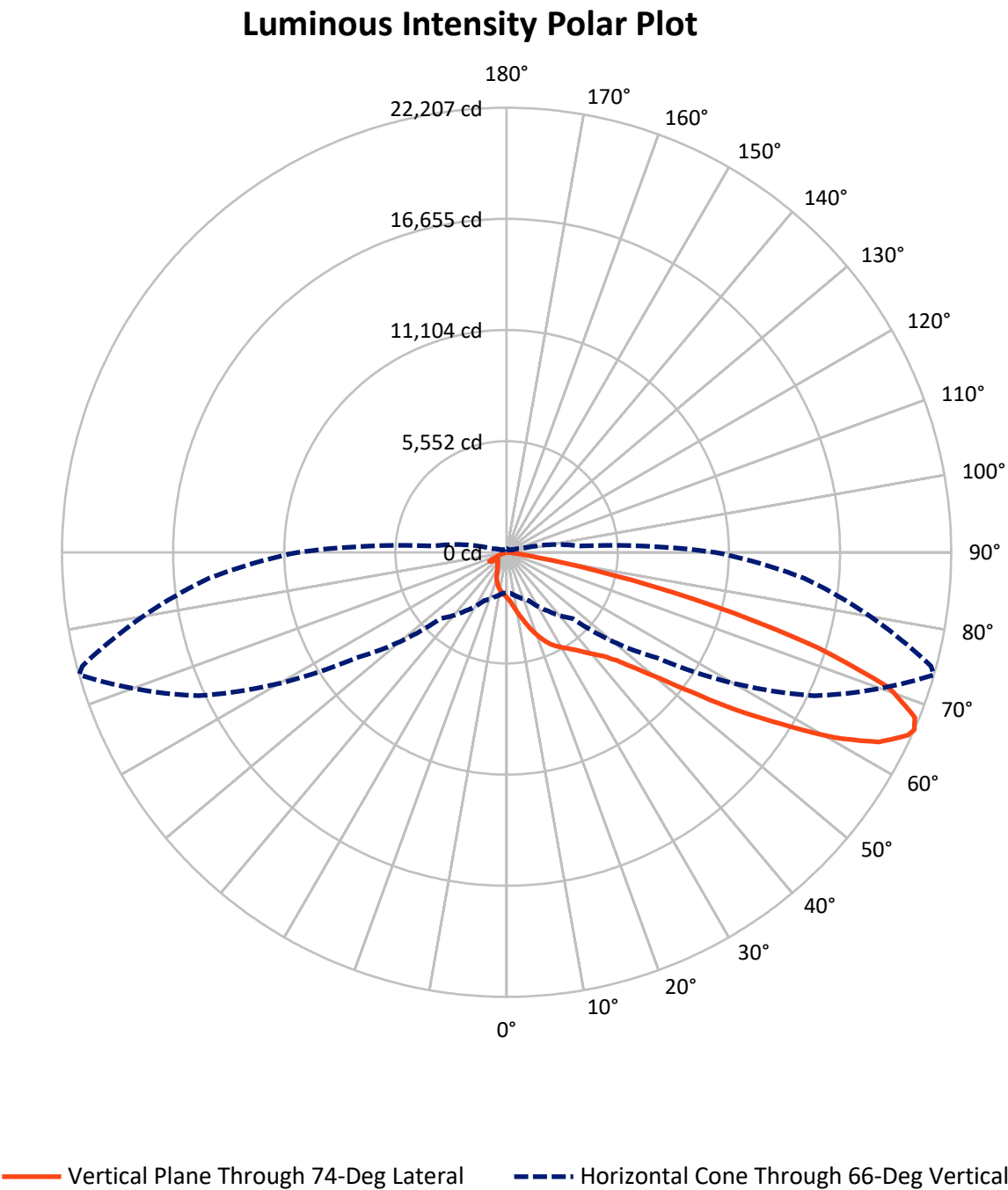
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2029.1	0.0	2029.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	18668.9	0.0	18668.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	20698.0	0.0	20698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.1
10°-20°	707.0	3.4
20°-30°	1349.2	6.5
30°-40°	2364.9	11.4
40°-50°	4055.1	19.6
50°-60°	5274.0	25.5
60°-70°	4774.3	23.1
70°-80°	1842.2	8.9
80°-90°	110.9	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°	20698.0	100.0
0°-180°	20698.0	100.0

Coefficient of Utilization



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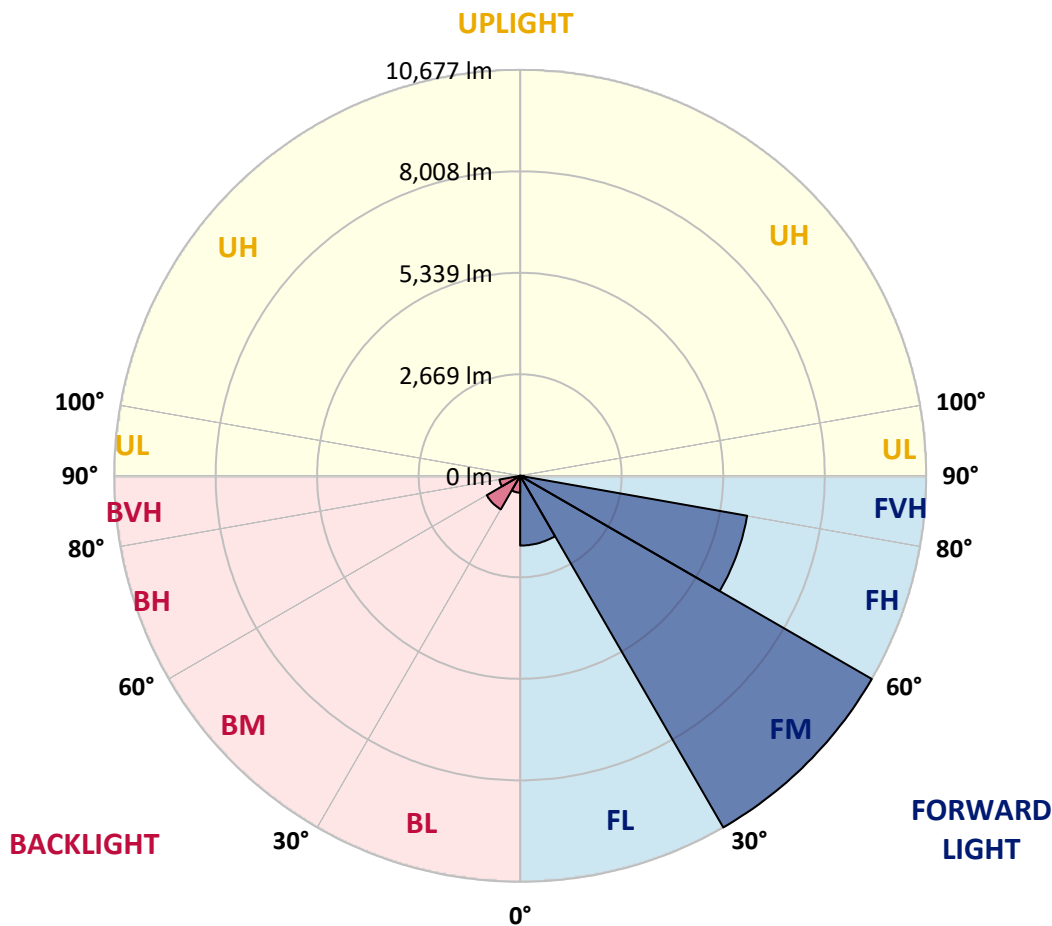
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.1	8.9			
FM	(30°-60°)	10677.1	51.6			
FH	(60°-80°)	6061.7	29.3			G3/7500
FVH	(80°-90°)	96.0	0.5			G1/100
BL	(0°-30°)	442.6	2.1	B1/500		
BM	(30°-60°)	1016.9	4.9	B2/2500		
BH	(60°-80°)	554.7	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2712.7	2690.4	2649.6	2645.8	2612.4	2571.5	2500.9	2426.6	2374.6	2367.1	2304.0
5°	3247.8	3236.7	3195.8	3169.8	3106.6	3010.0	2846.5	2683.0	2545.5	2530.6	2389.4
7.5°	3389.0	3396.5	3403.9	3429.9	3407.6	3363.0	3240.4	3010.0	2794.5	2761.0	2515.8
10°	3411.3	3403.9	3403.9	3437.4	3500.5	3563.7	3548.8	3351.9	3073.2	3032.3	2690.4
12.5°	3652.9	3664.0	3638.0	3623.2	3612.0	3645.5	3756.9	3671.5	3366.8	3333.3	2902.2
15°	3965.0	3961.3	3924.2	3924.2	3890.7	3835.0	3905.6	3968.8	3719.8	3678.9	3143.8
17.5°	4191.7	4206.6	4202.9	4225.2	4214.0	4139.7	4102.5	4232.6	4084.0	4031.9	3418.8
20°	4373.8	4414.7	4429.5	4500.2	4533.6	4481.6	4385.0	4466.7	4433.3	4385.0	3697.5
22.5°	4567.0	4600.5	4626.5	4749.1	4842.0	4830.9	4708.3	4689.7	4771.4	4726.8	3972.5
25°	4760.3	4775.1	4853.2	5001.8	5150.5	5187.6	5061.3	4916.3	5076.1	5035.3	4217.7
27.5°	4972.1	4979.5	5072.4	5254.5	5462.6	5540.6	5440.3	5172.8	5310.3	5310.3	4440.7
30°	5358.6	5432.9	5470.0	5633.5	5815.6	5923.4	5804.5	5444.0	5518.4	5551.8	4674.8
32.5°	6191.0	6202.1	6191.0	6261.6	6298.7	6361.9	6224.4	5748.7	5730.2	5767.3	4905.2
35°	7461.9	7417.3	7298.3	7194.3	6978.8	6859.9	6681.5	6138.9	5990.3	6042.3	5131.9
37.5°	9004.0	8940.8	8669.6	8350.0	7889.2	7413.5	7190.6	6614.6	6321.0	6387.9	5377.1
40°	10475.6	10434.7	10111.4	9717.5	8929.7	8115.9	7643.9	7015.9	6688.9	6714.9	5626.1
42.5°	11687.0	11679.6	11408.3	10995.8	9985.1	8874.0	8179.1	7409.8	7075.4	7116.3	5886.2
45°	12604.9	12534.3	12333.6	12036.3	11007.0	9661.8	8825.6	8008.1	7696.0	7744.3	6276.4
47.5°	12604.9	12616.0	12746.1	12716.4	11720.5	10401.3	9531.7	8762.5	8613.8	8658.4	6919.3
50°	11579.2	11683.3	12263.0	12749.8	12092.1	10977.2	10293.5	9706.4	9858.7	9925.6	8041.6
52.5°	9550.3	9724.9	10732.0	11843.1	11817.1	11267.1	11081.3	10906.6	11590.4	11709.3	9698.9
55°	7257.5	7372.7	8684.4	10144.8	10620.5	11029.3	11768.8	12430.2	13883.2	13857.2	11382.3
57.5°	5421.7	5529.5	6659.2	8279.4	8907.4	9999.9	12121.8	14173.1	16157.4	16257.8	12961.6
60°	3987.3	4069.1	5031.5	6361.9	7268.6	8424.3	11980.6	15889.9	18777.3	18662.1	14355.1
62.5°	2950.6	2995.1	3690.0	4555.9	5759.9	6863.6	11092.4	17064.2	20869.4	20635.3	15131.8
65°	2281.7	2296.5	2657.0	3117.8	4188.0	5336.3	9769.5	17242.5	22025.1	21776.1	15116.9
66°	2032.7	2043.8	2307.7	2664.4	3563.7	4671.1	9189.8	16956.4	22207.2	21943.3	14931.1
67.5°	1705.7	1698.2	1854.3	2088.4	2675.6	3604.6	8160.5	16120.3	21991.7	21857.9	14336.6
70°	1263.5	1267.2	1345.2	1401.0	1564.5	1995.5	5893.7	13983.5	20267.4	20260.0	12705.2
72.5°	936.4	947.6	1007.1	1018.2	977.3	1081.4	3396.5	11122.2	16213.2	16216.9	9498.3
75°	702.3	720.9	739.5	746.9	709.8	683.8	1534.7	7484.1	10665.1	10587.1	5377.1
77.5°	535.1	542.5	557.4	546.3	538.8	471.9	639.2	3649.2	5265.7	4797.4	1742.8
80°	390.2	390.2	405.1	390.2	386.5	338.2	349.3	1170.6	1545.9	1285.8	375.3
82.5°	245.3	241.5	252.7	249.0	241.5	215.5	204.4	327.0	356.7	319.6	182.1
85°	137.5	133.8	130.1	126.3	115.2	96.6	111.5	122.6	163.5	167.2	130.1
87.5°	48.3	48.3	44.6	40.9	33.4	33.4	40.9	40.9	59.5	59.5	66.9
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°	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2274.2	2233.4	2173.9	2095.9	2040.1	1984.4	1924.9	1891.5	1843.2	1832.0	1846.9
5°	2315.1	2240.8	2092.1	1928.6	1787.4	1661.1	1542.2	1471.6	1401.0	1374.9	1386.1
7.5°	2400.6	2274.2	2021.5	1757.7	1523.6	1334.1	1192.9	1111.1	1047.9	1021.9	1029.3
10°	2526.9	2333.7	1954.6	1564.5	1263.5	1062.8	943.9	891.9	854.7	839.8	843.5
12.5°	2679.3	2419.2	1869.2	1371.2	1040.5	865.8	810.1	799.0	791.5	784.1	787.8
15°	2850.2	2493.5	1768.8	1181.7	865.8	769.2	750.6	746.9	743.2	743.2	743.2
17.5°	3028.6	2560.4	1657.4	1003.3	754.4	709.8	698.6	698.6	698.6	702.3	702.3
20°	3195.8	2612.4	1527.3	843.5	691.2	654.0	646.6	646.6	650.3	654.0	654.0
22.5°	3359.3	2634.7	1374.9	732.1	639.2	605.7	594.6	594.6	594.6	598.3	598.3
25°	3500.5	2634.7	1222.6	661.5	594.6	561.1	546.3	542.5	546.3	546.3	546.3
27.5°	3619.4	2623.5	1073.9	613.2	550.0	516.5	501.7	498.0	505.4	509.1	509.1
30°	3745.8	2608.7	955.0	568.6	512.8	479.4	464.5	464.5	475.7	490.5	490.5
32.5°	3868.4	2619.8	862.1	531.4	475.7	449.6	434.8	438.5	460.8	483.1	483.1
35°	3998.5	2642.1	806.4	505.4	449.6	423.6	412.5	423.6	445.9	468.2	468.2
37.5°	4128.5	2668.1	772.9	483.1	427.3	401.3	393.9	408.8	434.8	457.1	460.8
40°	4266.0	2690.4	735.8	460.8	412.5	382.8	379.0	393.9	427.3	449.6	453.4
42.5°	4437.0	2735.0	691.2	442.2	397.6	360.5	364.2	375.3	408.8	442.2	445.9
45°	4771.4	2876.2	646.6	423.6	379.0	349.3	341.9	349.3	386.5	423.6	431.1
47.5°	5399.4	3195.8	598.3	405.1	360.5	341.9	312.1	319.6	353.0	393.9	397.6
50°	6603.4	3875.9	572.3	386.5	345.6	315.9	282.4	282.4	308.4	345.6	345.6
52.5°	8480.1	5094.7	587.1	371.6	327.0	289.9	256.4	252.7	267.6	293.6	293.6
55°	10505.3	6432.5	642.9	356.7	304.7	275.0	237.8	219.2	230.4	245.3	245.3
57.5°	12110.6	7105.1	795.2	349.3	278.7	263.8	215.5	189.5	200.7	215.5	215.5
60°	12816.7	6711.2	966.2	356.7	260.1	245.3	193.2	167.2	185.8	200.7	204.4
62.5°	12244.4	5525.8	1036.8	338.2	234.1	219.2	189.5	156.1	178.4	189.5	193.2
65°	11007.0	4199.1	810.1	293.6	215.5	189.5	170.9	148.6	167.2	178.4	178.4
66°	10419.8	3660.3	691.2	271.3	208.1	178.4	163.5	148.6	163.5	170.9	174.7
67.5°	9509.4	2887.4	512.8	237.8	193.2	163.5	152.4	141.2	156.1	163.5	163.5
70°	7435.8	1720.5	308.4	185.8	167.2	144.9	137.5	130.1	141.2	144.9	144.9
72.5°	4656.2	817.5	197.0	137.5	141.2	137.5	115.2	122.6	126.3	130.1	130.1
75°	2255.6	323.3	133.8	100.3	115.2	130.1	92.9	107.8	111.5	118.9	115.2
77.5°	628.0	156.1	85.5	74.3	100.3	100.3	70.6	85.5	100.3	126.3	115.2
80°	182.1	100.3	55.7	55.7	70.6	70.6	48.3	59.5	66.9	74.3	78.0
82.5°	126.3	66.9	37.2	40.9	40.9	44.6	29.7	29.7	37.2	37.2	40.9
85°	100.3	29.7	22.3	26.0	18.6	22.3	14.9	14.9	18.6	14.9	14.9
87.5°	40.9	14.9	14.9	14.9	11.1	11.1	7.4	3.7	3.7	3.7	3.7
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)