

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: P1211476

Luminaire Tested: **ARCH4-290-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211476
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: ARCH4-290-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1120mA 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: 24883 lumens
Efficiency: N/A
Efficacy: 85.9 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): 289.7
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



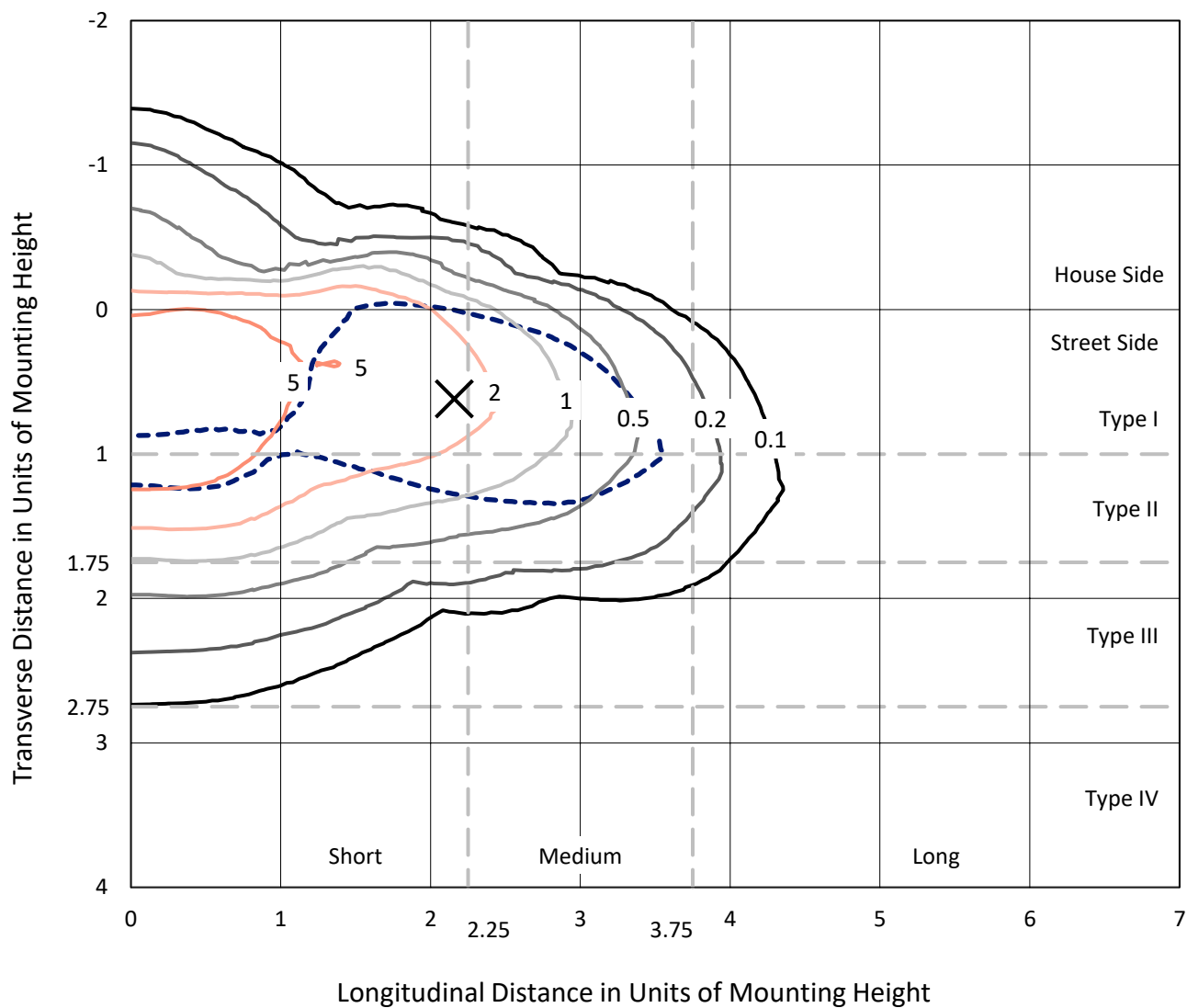
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Iso-Footcandle Lines of Horizontal Illumination

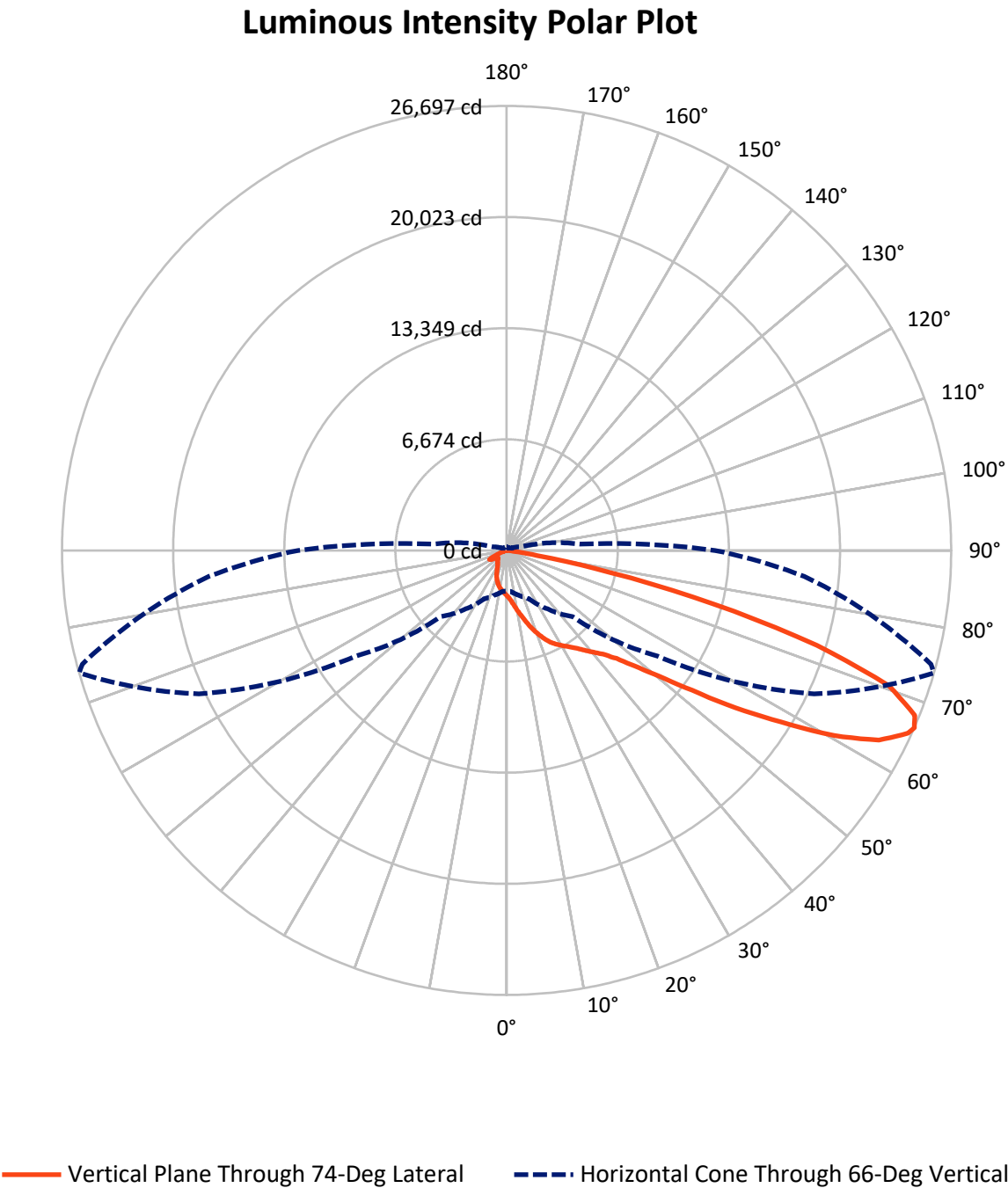
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2439.3	0.0	2439.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22443.7	0.0	22443.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	24883.0	0.0	24883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.1	1.1
10°-20°	849.9	3.4
20°-30°	1622.0	6.5
30°-40°	2843.0	11.4
40°-50°	4875.0	19.6
50°-60°	6340.4	25.5
60°-70°	5739.6	23.1
70°-80°	2214.6	8.9
80°-90°	133.3	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°	24883.0	100.0
0°-180°	24883.0	100.0

Coefficient of Utilization



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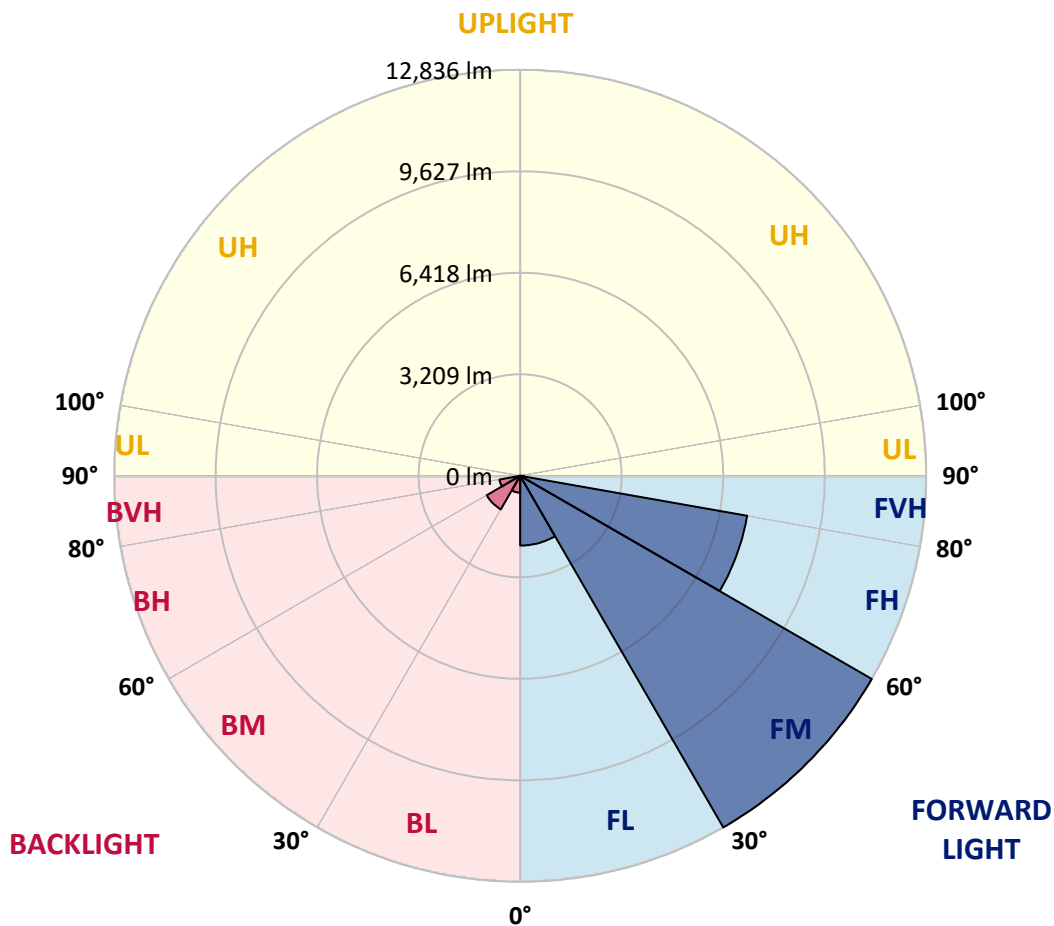
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2205.0	8.9			
FM	(30°-60°)	12835.9	51.6			
FH	(60°-80°)	7287.4	29.3			G3/7500
FVH	(80°-90°)	115.4	0.5			G2/225
BL	(0°-30°)	532.1	2.1	B2/1000		
BM	(30°-60°)	1222.5	4.9	B2/2500		
BH	(60°-80°)	666.9	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.9	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°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	3261.2	3234.4	3185.3	3180.8	3140.6	3091.5	3006.6	2917.2	2854.7	2845.7	2769.8
5°	3904.5	3891.1	3842.0	3810.7	3734.8	3618.6	3422.0	3225.5	3060.2	3042.3	2872.6
7.5°	4074.3	4083.2	4092.2	4123.4	4096.6	4043.0	3895.6	3618.6	3359.5	3319.3	3024.4
10°	4101.1	4092.2	4092.2	4132.4	4208.3	4284.3	4266.4	4029.6	3694.6	3645.4	3234.4
12.5°	4391.5	4404.9	4373.6	4355.7	4342.3	4382.5	4516.6	4413.8	4047.5	4007.3	3489.1
15°	4766.7	4762.3	4717.6	4717.6	4677.4	4610.4	4695.3	4771.2	4471.9	4422.8	3779.4
17.5°	5039.3	5057.1	5052.7	5079.5	5066.1	4976.7	4932.0	5088.4	4909.7	4847.2	4110.0
20°	5258.2	5307.3	5325.2	5410.1	5450.3	5387.7	5271.6	5369.8	5329.6	5271.6	4445.1
22.5°	5490.5	5530.7	5561.9	5709.4	5821.1	5807.7	5660.2	5637.9	5736.2	5682.6	4775.7
25°	5722.8	5740.6	5834.5	6013.2	6191.9	6236.5	6084.6	5910.4	6102.5	6053.4	5070.5
27.5°	5977.4	5986.3	6098.0	6316.9	6567.1	6660.9	6540.3	6218.7	6384.0	6384.0	5338.6
30°	6442.0	6531.4	6576.0	6772.6	6991.5	7121.1	6978.1	6544.8	6634.1	6674.3	5620.0
32.5°	7442.7	7456.1	7442.7	7527.6	7572.3	7648.2	7482.9	6911.1	6888.8	6933.4	5897.0
35°	8970.6	8917.0	8774.0	8648.9	8389.8	8246.9	8032.4	7380.2	7201.5	7264.0	6169.5
37.5°	10824.6	10748.6	10422.5	10038.3	9484.3	8912.5	8644.5	7952.0	7599.1	7679.5	6464.4
40°	12593.7	12544.5	12155.9	11682.3	10735.2	9756.9	9189.5	8434.5	8041.4	8072.6	6763.7
42.5°	14050.1	14041.1	13715.0	13219.1	12004.0	10668.2	9832.8	8908.0	8506.0	8555.1	7076.4
45°	15153.5	15068.6	14827.4	14470.0	13232.5	11615.3	10610.1	9627.3	9252.0	9310.1	7545.5
47.5°	15153.5	15166.9	15323.3	15287.5	14090.3	12504.3	11458.9	10534.2	10355.5	10409.1	8318.3
50°	13920.5	14045.6	14742.5	15327.7	14537.0	13196.8	12374.8	11668.9	11852.1	11932.5	9667.5
52.5°	11481.3	11691.3	12901.9	14237.7	14206.4	13545.2	13321.9	13111.9	13933.9	14076.9	11660.0
55°	8724.9	8863.4	10440.4	12196.1	12767.9	13259.3	14148.3	14943.5	16690.3	16659.0	13683.7
57.5°	6518.0	6647.5	8005.6	9953.4	10708.4	12021.8	14572.7	17038.8	19424.4	19545.0	15582.4
60°	4793.5	4891.8	6048.9	7648.2	8738.3	10127.7	14403.0	19102.7	22573.9	22435.4	17257.7
62.5°	3547.1	3600.7	4436.2	5477.1	6924.5	8251.3	13335.3	20514.4	25089.1	24807.6	18191.4
65°	2743.0	2760.9	3194.2	3748.2	5034.8	6415.2	11744.9	20728.9	26478.4	26179.1	18173.5
66°	2443.7	2457.1	2774.3	3203.1	4284.3	5615.6	11047.9	20384.9	26697.3	26380.1	17950.1
67.5°	2050.5	2041.6	2229.2	2510.7	3216.5	4333.4	9810.5	19379.7	26438.2	26277.4	17235.3
70°	1518.9	1523.4	1617.2	1684.2	1880.8	2399.0	7085.3	16810.9	24365.3	24356.4	15274.1
72.5°	1125.8	1139.2	1210.7	1224.1	1174.9	1300.0	4083.2	13371.0	19491.4	19495.8	11418.7
75°	844.3	866.7	889.0	898.0	853.3	822.0	1845.0	8997.4	12821.5	12727.7	6464.4
77.5°	643.3	652.2	670.1	656.7	647.8	567.4	768.4	4387.0	6330.3	5767.4	2095.2
80°	469.1	469.1	486.9	469.1	464.6	406.5	419.9	1407.2	1858.4	1545.7	451.2
82.5°	294.9	290.4	303.8	299.3	290.4	259.1	245.7	393.1	428.9	384.2	218.9
85°	165.3	160.8	156.4	151.9	138.5	116.2	134.0	147.4	196.6	201.0	156.4
87.5°	58.1	58.1	53.6	49.1	40.2	40.2	49.1	49.1	71.5	71.5	80.4
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°	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2	2716.2
2.5°	2734.1	2684.9	2613.4	2519.6	2452.6	2385.6	2314.1	2273.9	2215.8	2202.4	2220.3
5°	2783.2	2693.9	2515.2	2318.6	2148.8	1996.9	1854.0	1769.1	1684.2	1652.9	1666.3
7.5°	2886.0	2734.1	2430.3	2113.1	1831.6	1603.8	1434.0	1335.8	1259.8	1228.5	1237.5
10°	3037.8	2805.5	2349.9	1880.8	1518.9	1277.7	1134.7	1072.2	1027.5	1009.6	1014.1
12.5°	3221.0	2908.3	2247.1	1648.5	1250.9	1040.9	973.9	960.5	951.6	942.6	947.1
15°	3426.5	2997.6	2126.5	1420.6	1040.9	924.8	902.4	898.0	893.5	893.5	893.5
17.5°	3641.0	3078.1	1992.5	1206.2	906.9	853.3	839.9	839.9	839.9	844.3	844.3
20°	3842.0	3140.6	1836.1	1014.1	830.9	786.3	777.3	777.3	781.8	786.3	786.3
22.5°	4038.6	3167.4	1652.9	880.1	768.4	728.2	714.8	714.8	714.8	719.3	719.3
25°	4208.3	3167.4	1469.8	795.2	714.8	674.6	656.7	652.2	656.7	656.7	656.7
27.5°	4351.3	3154.0	1291.1	737.1	661.2	621.0	603.1	598.6	607.6	612.0	612.0
30°	4503.2	3136.1	1148.1	683.5	616.5	576.3	558.4	558.4	571.8	589.7	589.7
32.5°	4650.6	3149.5	1036.4	638.8	571.8	540.6	522.7	527.2	554.0	580.8	580.8
35°	4806.9	3176.3	969.4	607.6	540.6	509.3	495.9	509.3	536.1	562.9	562.9
37.5°	4963.3	3207.6	929.2	580.8	513.8	482.5	473.5	491.4	522.7	549.5	554.0
40°	5128.6	3234.4	884.6	554.0	495.9	460.1	455.7	473.5	513.8	540.6	545.0
42.5°	5334.1	3288.0	830.9	531.6	478.0	433.3	437.8	451.2	491.4	531.6	536.1
45°	5736.2	3457.8	777.3	509.3	455.7	419.9	411.0	419.9	464.6	509.3	518.2
47.5°	6491.2	3842.0	719.3	486.9	433.3	411.0	375.3	384.2	424.4	473.5	478.0
50°	7938.6	4659.5	688.0	464.6	415.5	379.7	339.5	339.5	370.8	415.5	415.5
52.5°	10194.7	6124.8	705.9	446.7	393.1	348.5	308.3	303.8	321.7	352.9	352.9
55°	12629.4	7733.1	772.9	428.9	366.3	330.6	285.9	263.6	277.0	294.9	294.9
57.5°	14559.3	8541.7	956.0	419.9	335.1	317.2	259.1	227.8	241.2	259.1	259.1
60°	15408.1	8068.2	1161.5	428.9	312.7	294.9	232.3	201.0	223.4	241.2	245.7
62.5°	14720.2	6643.1	1246.4	406.5	281.4	263.6	227.8	187.6	214.4	227.8	232.3
65°	13232.5	5048.2	973.9	352.9	259.1	227.8	205.5	178.7	201.0	214.4	214.4
66°	12526.7	4400.4	830.9	326.1	250.2	214.4	196.6	178.7	196.6	205.5	210.0
67.5°	11432.1	3471.2	616.5	285.9	232.3	196.6	183.2	169.8	187.6	196.6	196.6
70°	8939.3	2068.4	370.8	223.4	201.0	174.2	165.3	156.4	169.8	174.2	174.2
72.5°	5597.7	982.8	236.8	165.3	169.8	165.3	138.5	147.4	151.9	156.4	156.4
75°	2711.7	388.7	160.8	120.6	138.5	156.4	111.7	129.6	134.0	143.0	138.5
77.5°	755.0	187.6	102.8	89.3	120.6	120.6	84.9	102.8	120.6	151.9	138.5
80°	218.9	120.6	67.0	67.0	84.9	84.9	58.1	71.5	80.4	89.3	93.8
82.5°	151.9	80.4	44.7	49.1	49.1	53.6	35.7	35.7	44.7	44.7	49.1
85°	120.6	35.7	26.8	31.3	22.3	26.8	17.9	17.9	22.3	17.9	17.9
87.5°	49.1	17.9	17.9	17.9	13.4	13.4	8.9	4.5	4.5	4.5	4.5
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)