

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: P1211100

Luminaire Tested: **ARCH4-170-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211100
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: ARCH4-170-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 18942 lumens
Efficiency: N/A
Efficacy: 111.6 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

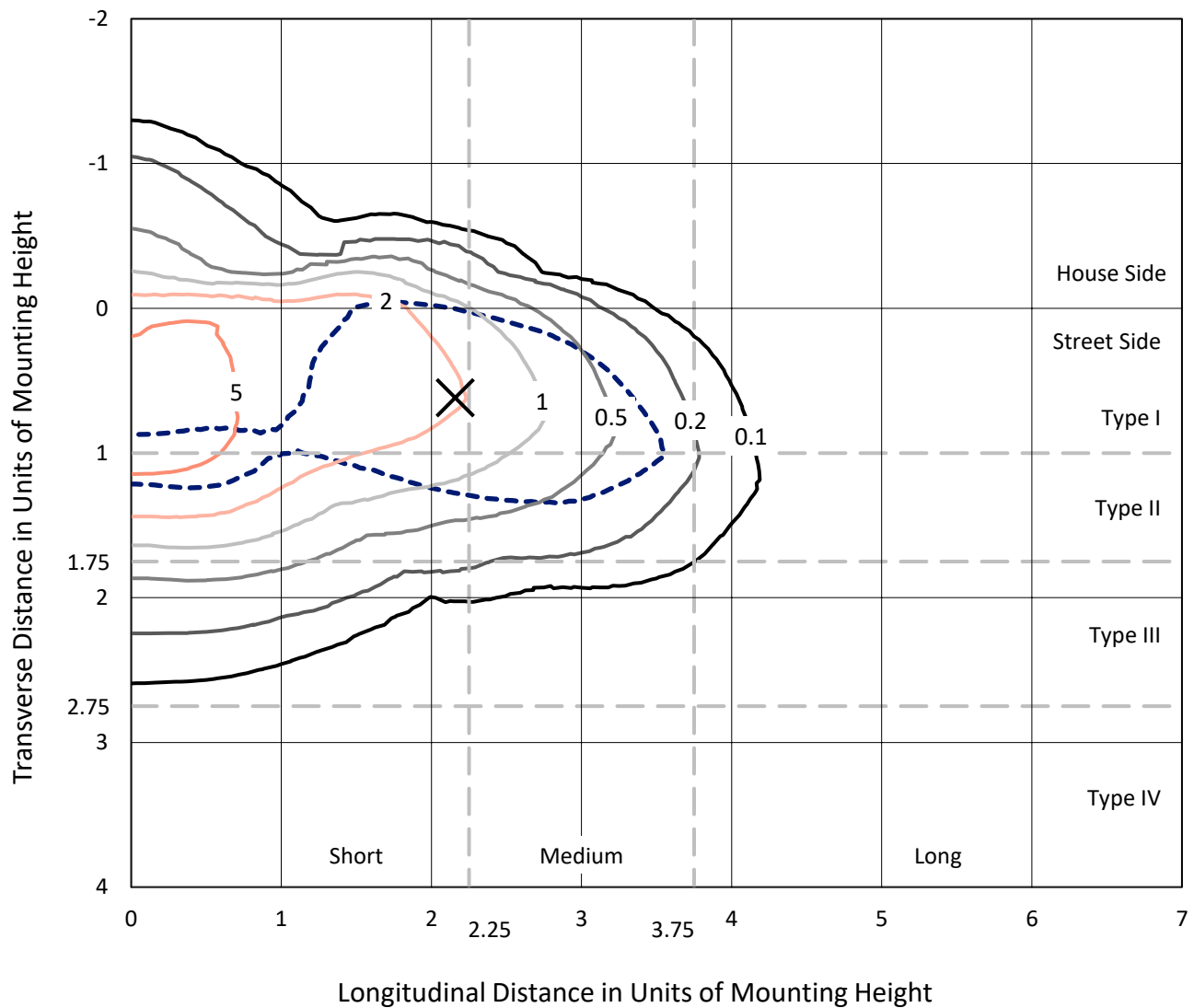
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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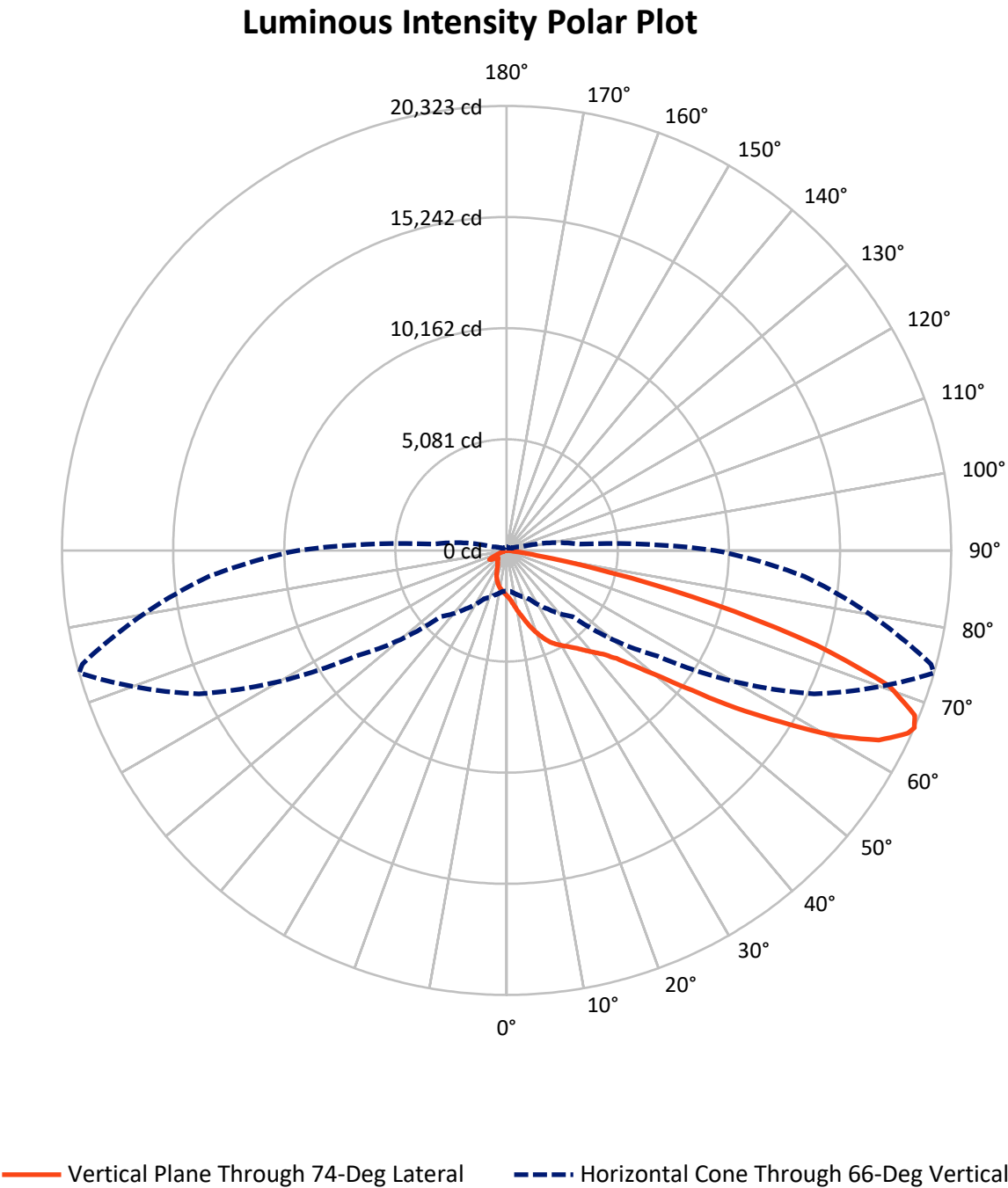
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.9	0.0	1856.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17085.1	0.0	17085.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	18942.0	0.0	18942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.1
10°-20°	647.0	3.4
20°-30°	1234.8	6.5
30°-40°	2164.2	11.4
40°-50°	3711.1	19.6
50°-60°	4826.6	25.5
60°-70°	4369.2	23.1
70°-80°	1685.9	8.9
80°-90°	101.4	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°	18942.0	100.0
0°-180°	18942.0	100.0

Coefficient of Utilization



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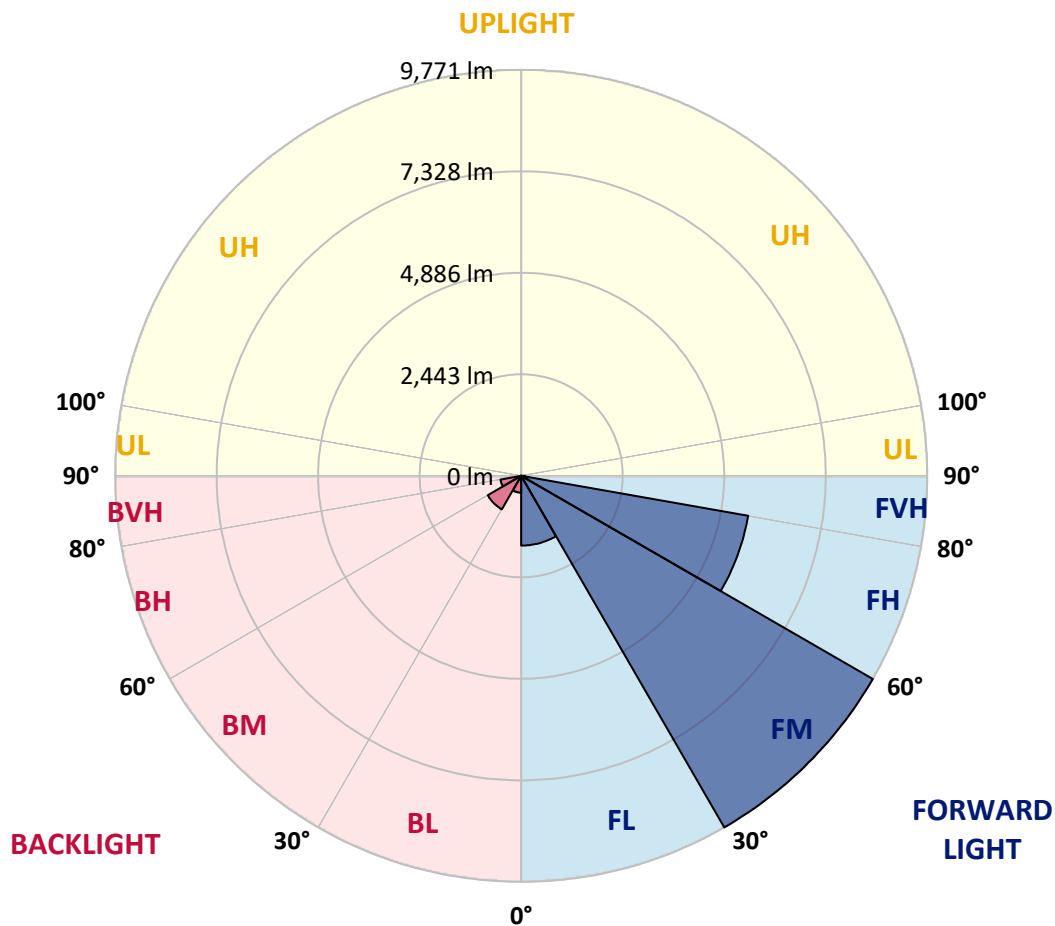
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.5	8.9			
FM	(30°-60°)	9771.2	51.6			
FH	(60°-80°)	5547.5	29.3			G3/7500
FVH	(80°-90°)	87.9	0.5			G1/100
BL	(0°-30°)	405.0	2.1	B1/500		
BM	(30°-60°)	930.6	4.9	B1/1000		
BH	(60°-80°)	507.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	13.6	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°	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7
2.5°	2482.6	2462.2	2424.8	2421.4	2390.8	2353.3	2288.7	2220.7	2173.1	2166.3	2108.5
5°	2972.3	2962.1	2924.7	2900.9	2843.1	2754.6	2605.0	2455.4	2329.5	2315.9	2186.7
7.5°	3101.5	3108.3	3115.1	3138.9	3118.5	3077.7	2965.5	2754.6	2557.4	2526.8	2302.3
10°	3121.9	3115.1	3115.1	3145.7	3203.5	3261.4	3247.8	3067.5	2812.5	2775.0	2462.2
12.5°	3343.0	3353.2	3329.4	3315.8	3305.6	3336.2	3438.2	3360.0	3081.1	3050.5	2656.0
15°	3628.6	3625.2	3591.2	3591.2	3560.6	3509.6	3574.2	3632.0	3404.2	3366.8	2877.1
17.5°	3836.1	3849.7	3846.3	3866.7	3856.5	3788.5	3754.5	3873.5	3737.5	3689.9	3128.7
20°	4002.7	4040.1	4053.7	4118.4	4149.0	4101.4	4012.9	4087.8	4057.1	4012.9	3383.8
22.5°	4179.6	4210.2	4234.0	4346.2	4431.2	4421.0	4308.8	4291.8	4366.6	4325.8	3635.4
25°	4356.4	4370.0	4441.4	4577.5	4713.5	4747.5	4631.9	4499.3	4645.5	4608.1	3859.9
27.5°	4550.3	4557.1	4642.1	4808.7	4999.2	5070.6	4978.8	4733.9	4859.7	4859.7	4063.9
30°	4903.9	4972.0	5006.0	5155.6	5322.2	5420.9	5312.0	4982.2	5050.2	5080.8	4278.2
32.5°	5665.7	5675.9	5665.7	5730.3	5764.3	5822.2	5696.3	5261.0	5244.0	5278.0	4489.0
35°	6828.8	6788.0	6679.2	6583.9	6386.7	6277.9	6114.6	5618.1	5482.1	5529.7	4696.5
37.5°	8240.1	8182.3	7934.1	7641.6	7219.9	6784.6	6580.5	6053.4	5784.8	5846.0	4920.9
40°	9586.8	9549.4	9253.6	8893.1	8172.1	7427.3	6995.4	6420.7	6121.4	6145.2	5148.8
42.5°	10695.5	10688.7	10440.4	10063.0	9137.9	8121.1	7485.1	6781.2	6475.1	6512.5	5386.9
45°	11535.5	11470.9	11287.2	11015.2	10073.2	8842.1	8076.9	7328.7	7043.0	7087.3	5743.9
47.5°	11535.5	11545.7	11664.7	11637.5	10726.1	9518.8	8723.0	8019.1	7883.0	7923.9	6332.3
50°	10596.9	10692.1	11222.6	11668.1	11066.2	10045.9	9420.2	8882.9	9022.3	9083.5	7359.3
52.5°	8740.0	8899.9	9821.5	10838.3	10814.5	10311.2	10141.2	9981.3	10607.1	10715.9	8876.1
55°	6641.8	6747.2	7947.7	9284.2	9719.5	10093.6	10770.3	11375.7	12705.4	12681.6	10416.6
57.5°	4961.8	5060.4	6094.2	7577.0	8151.7	9151.5	11093.4	12970.6	14786.7	14878.5	11862.0
60°	3649.1	3723.9	4604.7	5822.2	6652.0	7709.6	10964.2	14541.8	17184.2	17078.8	13137.3
62.5°	2700.2	2741.0	3377.0	4169.4	5271.2	6281.3	10151.4	15616.4	19098.9	18884.6	13848.0
65°	2088.1	2101.7	2431.6	2853.3	3832.7	4883.5	8940.7	15779.7	20156.5	19928.7	13834.4
66°	1860.2	1870.4	2111.9	2438.4	3261.4	4274.8	8410.2	15517.8	20323.1	20081.7	13664.4
67.5°	1561.0	1554.2	1697.0	1911.2	2448.6	3298.8	7468.1	14752.6	20125.9	20003.5	13120.3
70°	1156.3	1159.7	1231.1	1282.1	1431.7	1826.2	5393.7	12797.2	18547.9	18541.1	11627.3
72.5°	857.0	867.2	921.6	931.8	894.4	989.6	3108.3	10178.6	14837.7	14841.1	8692.4
75°	642.8	659.8	676.8	683.6	649.6	625.7	1404.5	6849.2	9760.3	9688.9	4920.9
77.5°	489.7	496.5	510.1	499.9	493.1	431.9	584.9	3339.6	4818.9	4390.4	1595.0
80°	357.1	357.1	370.7	357.1	353.7	309.5	319.7	1071.3	1414.7	1176.7	343.5
82.5°	224.5	221.1	231.3	227.9	221.1	197.2	187.0	299.3	326.5	292.5	166.6
85°	125.8	122.4	119.0	115.6	105.4	88.4	102.0	112.2	149.6	153.0	119.0
87.5°	44.2	44.2	40.8	37.4	30.6	30.6	37.4	37.4	54.4	54.4	61.2
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°	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7	2067.7
2.5°	2081.3	2043.9	1989.5	1918.0	1867.0	1816.0	1761.6	1731.0	1686.8	1676.6	1690.2
5°	2118.7	2050.7	1914.6	1765.0	1635.8	1520.2	1411.3	1346.7	1282.1	1258.3	1268.5
7.5°	2196.9	2081.3	1850.0	1608.6	1394.3	1220.9	1091.7	1016.8	959.0	935.2	942.0
10°	2312.5	2135.7	1788.8	1431.7	1156.3	972.6	863.8	816.2	782.2	768.6	772.0
12.5°	2452.0	2213.9	1710.6	1254.9	952.2	792.4	741.4	731.2	724.4	717.6	721.0
15°	2608.4	2281.9	1618.8	1081.5	792.4	704.0	687.0	683.6	680.2	680.2	680.2
17.5°	2771.6	2343.1	1516.8	918.2	690.4	649.6	639.3	639.3	639.3	642.8	642.8
20°	2924.7	2390.8	1397.7	772.0	632.5	598.5	591.7	591.7	595.1	598.5	598.5
22.5°	3074.3	2411.2	1258.3	670.0	584.9	554.3	544.1	544.1	544.1	547.5	547.5
25°	3203.5	2411.2	1118.9	605.3	544.1	513.5	499.9	496.5	499.9	499.9	499.9
27.5°	3312.4	2401.0	982.8	561.1	503.3	472.7	459.1	455.7	462.5	465.9	465.9
30°	3428.0	2387.4	874.0	520.3	469.3	438.7	425.1	425.1	435.3	448.9	448.9
32.5°	3540.2	2397.6	789.0	486.3	435.3	411.5	397.9	401.3	421.7	442.1	442.1
35°	3659.3	2418.0	738.0	462.5	411.5	387.7	377.5	387.7	408.1	428.5	428.5
37.5°	3778.3	2441.8	707.4	442.1	391.1	367.3	360.5	374.1	397.9	418.3	421.7
40°	3904.1	2462.2	673.4	421.7	377.5	350.3	346.9	360.5	391.1	411.5	414.9
42.5°	4060.5	2503.0	632.5	404.7	363.9	329.9	333.3	343.5	374.1	404.7	408.1
45°	4366.6	2632.2	591.7	387.7	346.9	319.7	312.9	319.7	353.7	387.7	394.5
47.5°	4941.4	2924.7	547.5	370.7	329.9	312.9	285.7	292.5	323.1	360.5	363.9
50°	6043.2	3547.0	523.7	353.7	316.3	289.1	258.5	258.5	282.3	316.3	316.3
52.5°	7760.6	4662.5	537.3	340.1	299.3	265.3	234.7	231.3	244.9	268.7	268.7
55°	9614.0	5886.8	588.3	326.5	278.9	251.7	217.7	200.6	210.8	224.5	224.5
57.5°	11083.2	6502.3	727.8	319.7	255.1	241.5	197.2	173.4	183.6	197.2	197.2
60°	11729.3	6141.8	884.2	326.5	238.1	224.5	176.8	153.0	170.0	183.6	187.0
62.5°	11205.6	5057.0	948.8	309.5	214.3	200.6	173.4	142.8	163.2	173.4	176.8
65°	10073.2	3842.9	741.4	268.7	197.2	173.4	156.4	136.0	153.0	163.2	163.2
66°	9535.8	3349.8	632.5	248.3	190.4	163.2	149.6	136.0	149.6	156.4	159.8
67.5°	8702.6	2642.4	469.3	217.7	176.8	149.6	139.4	129.2	142.8	149.6	149.6
70°	6805.0	1574.6	282.3	170.0	153.0	132.6	125.8	119.0	129.2	132.6	132.6
72.5°	4261.2	748.2	180.2	125.8	129.2	125.8	105.4	112.2	115.6	119.0	119.0
75°	2064.3	295.9	122.4	91.8	105.4	119.0	85.0	98.6	102.0	108.8	105.4
77.5°	574.7	142.8	78.2	68.0	91.8	91.8	64.6	78.2	91.8	115.6	105.4
80°	166.6	91.8	51.0	51.0	64.6	64.6	44.2	54.4	61.2	68.0	71.4
82.5°	115.6	61.2	34.0	37.4	37.4	40.8	27.2	27.2	34.0	34.0	37.4
85°	91.8	27.2	20.4	23.8	17.0	20.4	13.6	13.6	17.0	13.6	13.6
87.5°	37.4	13.6	13.6	13.6	10.2	10.2	6.8	3.4	3.4	3.4	3.4
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)