

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: P1211292

Luminaire Tested: **ARCH4-230-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211292
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: ARCH4-230-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA 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: 24077 lumens
Efficiency: N/A
Efficacy: 104.1 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

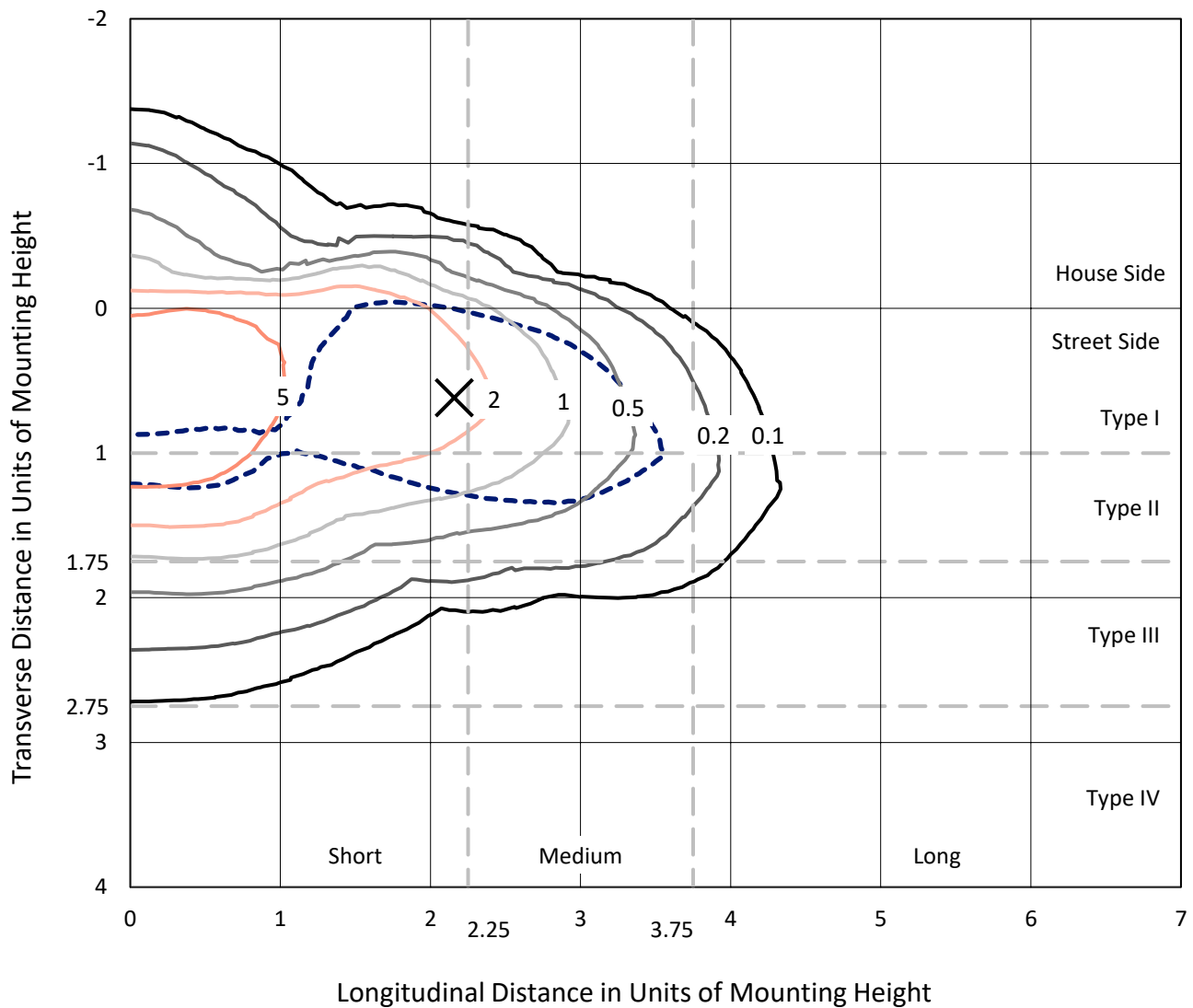
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

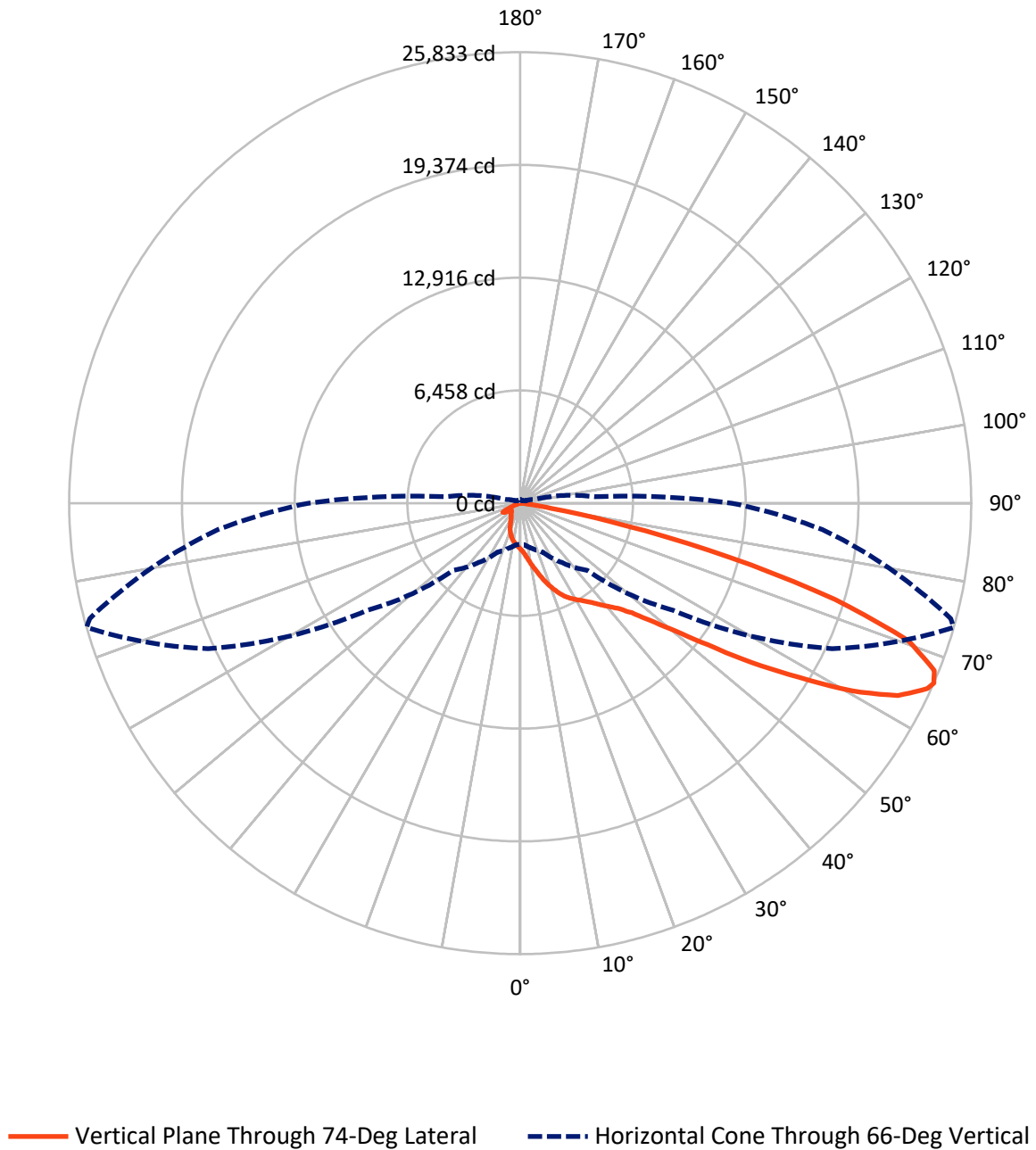
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2360.3	0.0	2360.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21716.7	0.0	21716.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	24077.0	0.0	24077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.1
10°-20°	822.4	3.4
20°-30°	1569.5	6.5
30°-40°	2750.9	11.4
40°-50°	4717.1	19.6
50°-60°	6135.0	25.5
60°-70°	5553.7	23.1
70°-80°	2142.9	8.9
80°-90°	128.9	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°	24077.0	100.0
0°-180°	24077.0	100.0

Coefficient of Utilization



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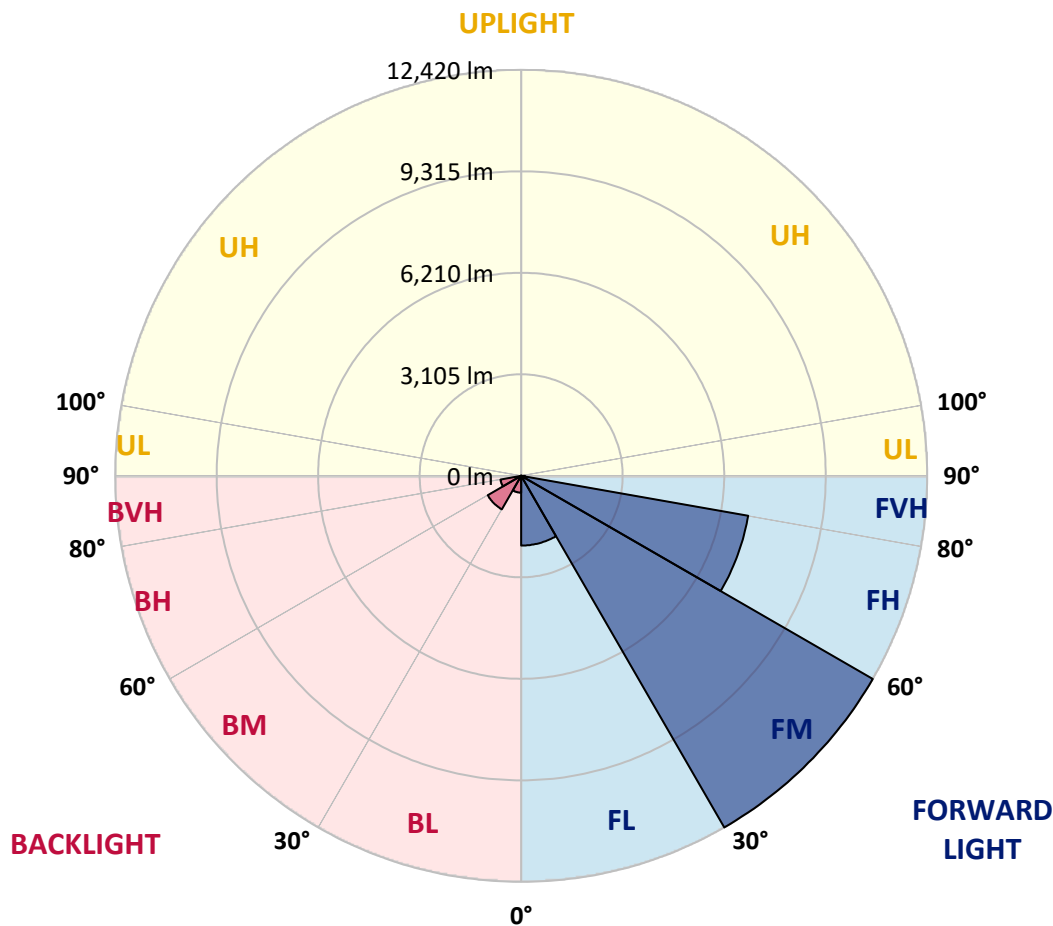
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2133.6	8.9			
FM	(30°-60°)	12420.1	51.6			
FH	(60°-80°)	7051.3	29.3			G3/7500
FVH	(80°-90°)	111.7	0.5			G2/225
BL	(0°-30°)	514.8	2.1	B2/1000		
BM	(30°-60°)	1182.9	4.9	B2/2500		
BH	(60°-80°)	645.3	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.3	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°	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2
2.5°	3155.6	3129.6	3082.1	3077.8	3038.9	2991.3	2909.2	2822.7	2762.2	2753.6	2680.1
5°	3778.1	3765.1	3717.5	3687.3	3613.8	3501.4	3311.2	3121.0	2961.1	2943.8	2779.5
7.5°	3942.3	3951.0	3959.6	3989.9	3963.9	3912.1	3769.4	3501.4	3250.7	3211.8	2926.5
10°	3968.3	3959.6	3959.6	3998.5	4072.0	4145.5	4128.2	3899.1	3574.9	3527.3	3129.6
12.5°	4249.2	4262.2	4231.9	4214.7	4201.7	4240.6	4370.3	4270.8	3916.4	3877.5	3376.0
15°	4612.3	4608.0	4564.8	4564.8	4525.9	4461.0	4543.2	4616.7	4327.0	4279.5	3657.0
17.5°	4876.0	4893.3	4889.0	4914.9	4902.0	4815.5	4772.3	4923.6	4750.7	4690.1	3976.9
20°	5087.8	5135.4	5152.7	5234.8	5273.7	5213.2	5100.8	5195.9	5157.0	5100.8	4301.1
22.5°	5312.6	5351.5	5381.8	5524.4	5632.5	5619.5	5476.9	5455.3	5550.4	5498.5	4621.0
25°	5537.4	5554.7	5645.5	5818.4	5991.3	6034.5	5887.5	5719.0	5904.8	5857.3	4906.3
27.5°	5783.8	5792.4	5900.5	6112.3	6354.4	6445.2	6328.5	6017.2	6177.2	6177.2	5165.6
30°	6233.4	6319.8	6363.0	6553.2	6765.1	6890.4	6752.1	6332.8	6419.2	6458.1	5438.0
32.5°	7201.6	7214.6	7201.6	7283.8	7327.0	7400.5	7240.6	6687.2	6665.6	6708.9	5706.0
35°	8680.0	8628.1	8489.8	8368.8	8118.1	7979.7	7772.2	7141.1	6968.2	7028.7	5969.7
37.5°	10473.9	10400.5	10084.9	9713.1	9177.1	8623.8	8364.5	7694.4	7352.9	7430.8	6255.0
40°	12185.7	12138.2	11762.1	11303.9	10387.5	9440.8	8891.8	8161.3	7780.9	7811.2	6544.6
42.5°	13594.9	13586.3	13270.7	12790.9	11615.1	10322.7	9514.3	8619.5	8230.5	8278.0	6847.2
45°	14662.7	14580.5	14347.1	14001.3	12803.9	11239.1	10266.5	9315.5	8952.3	9008.5	7301.1
47.5°	14662.7	14675.6	14826.9	14792.3	13633.9	12099.3	11087.8	10193.0	10020.1	10071.9	8048.9
50°	13469.6	13590.6	14265.0	14831.2	14066.1	12769.3	11973.9	11290.9	11468.2	11546.0	9354.4
52.5°	11109.4	11312.6	12484.0	13776.5	13746.2	13106.5	12890.3	12687.2	13482.6	13620.9	11282.3
55°	8442.3	8576.3	10102.2	11801.0	12354.3	12829.8	13690.0	14459.5	16149.7	16119.4	13240.5
57.5°	6306.8	6432.2	7746.3	9631.0	10361.6	11632.4	14100.7	16486.8	18795.2	18911.9	15077.6
60°	4638.3	4733.4	5853.0	7400.5	8455.2	9799.6	13936.4	18483.9	21842.7	21708.7	16698.7
62.5°	3432.2	3484.1	4292.5	5299.7	6700.2	7984.1	12903.3	19849.9	24276.4	24004.1	17602.1
65°	2654.1	2671.4	3090.7	3626.8	4871.7	6207.4	11364.4	20057.4	25620.8	25331.1	17584.8
66°	2364.5	2377.5	2684.4	3099.4	4145.5	5433.7	10690.1	19724.6	25832.6	25525.7	17368.7
67.5°	1984.1	1975.5	2157.0	2429.4	3112.4	4193.0	9492.7	18752.0	25581.8	25426.2	16677.0
70°	1469.7	1474.0	1564.8	1629.7	1819.9	2321.3	6855.8	16266.4	23576.1	23567.5	14779.4
72.5°	1089.3	1102.3	1171.5	1184.4	1136.9	1257.9	3951.0	12937.9	18860.0	18864.3	11048.9
75°	817.0	838.6	860.2	868.9	825.6	795.4	1785.3	8706.0	12406.2	12315.4	6255.0
77.5°	622.5	631.1	648.4	635.4	626.8	549.0	743.5	4244.9	6125.3	5580.6	2027.4
80°	453.9	453.9	471.2	453.9	449.6	393.4	406.3	1361.7	1798.3	1495.7	436.6
82.5°	285.3	281.0	293.9	289.6	281.0	250.7	237.7	380.4	415.0	371.8	211.8
85°	159.9	155.6	151.3	147.0	134.0	112.4	129.7	142.6	190.2	194.5	151.3
87.5°	56.2	56.2	51.9	47.5	38.9	38.9	47.5	47.5	69.2	69.2	77.8
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°	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2	2628.2
2.5°	2645.5	2598.0	2528.8	2438.0	2373.2	2308.3	2239.2	2200.3	2144.1	2131.1	2148.4
5°	2693.1	2606.6	2433.7	2243.5	2079.2	1932.3	1793.9	1711.8	1629.7	1599.4	1612.4
7.5°	2792.5	2645.5	2351.6	2044.6	1772.3	1551.9	1387.6	1292.5	1219.0	1188.7	1197.4
10°	2939.4	2714.7	2273.7	1819.9	1469.7	1236.3	1098.0	1037.5	994.2	976.9	981.3
12.5°	3116.7	2814.1	2174.3	1595.1	1210.4	1007.2	942.4	929.4	920.7	912.1	916.4
15°	3315.5	2900.5	2057.6	1374.6	1007.2	894.8	873.2	868.9	864.5	864.5	864.5
17.5°	3523.0	2978.4	1927.9	1167.1	877.5	825.6	812.7	812.7	812.7	817.0	817.0
20°	3717.5	3038.9	1776.6	981.3	804.0	760.8	752.2	752.2	756.5	760.8	760.8
22.5°	3907.7	3064.8	1599.4	851.6	743.5	704.6	691.6	691.6	691.6	696.0	696.0
25°	4072.0	3064.8	1422.2	769.4	691.6	652.7	635.4	631.1	635.4	635.4	635.4
27.5°	4210.3	3051.8	1249.3	713.2	639.8	600.9	583.6	579.2	587.9	592.2	592.2
30°	4357.3	3034.5	1110.9	661.4	596.5	557.6	540.3	540.3	553.3	570.6	570.6
32.5°	4499.9	3047.5	1002.9	618.1	553.3	523.0	505.8	510.1	536.0	562.0	562.0
35°	4651.2	3073.5	938.0	587.9	523.0	492.8	479.8	492.8	518.7	544.7	544.7
37.5°	4802.5	3103.7	899.1	562.0	497.1	466.9	458.2	475.5	505.8	531.7	536.0
40°	4962.5	3129.6	855.9	536.0	479.8	445.2	440.9	458.2	497.1	523.0	527.4
42.5°	5161.3	3181.5	804.0	514.4	462.5	419.3	423.6	436.6	475.5	514.4	518.7
45°	5550.4	3345.8	752.2	492.8	440.9	406.3	397.7	406.3	449.6	492.8	501.4
47.5°	6280.9	3717.5	696.0	471.2	419.3	397.7	363.1	371.8	410.7	458.2	462.5
50°	7681.5	4508.6	665.7	449.6	402.0	367.4	328.5	328.5	358.8	402.0	402.0
52.5°	9864.4	5926.4	683.0	432.3	380.4	337.2	298.3	293.9	311.2	341.5	341.5
55°	12220.3	7482.6	747.8	415.0	354.5	319.9	276.7	255.0	268.0	285.3	285.3
57.5°	14087.7	8265.0	925.1	406.3	324.2	306.9	250.7	220.5	233.4	250.7	250.7
60°	14909.1	7806.8	1123.9	415.0	302.6	285.3	224.8	194.5	216.1	233.4	237.7
62.5°	14243.4	6427.9	1206.0	393.4	272.3	255.0	220.5	181.6	207.5	220.5	224.8
65°	12803.9	4884.7	942.4	341.5	250.7	220.5	198.8	172.9	194.5	207.5	207.5
66°	12120.9	4257.9	804.0	315.6	242.1	207.5	190.2	172.9	190.2	198.8	203.2
67.5°	11061.8	3358.8	596.5	276.7	224.8	190.2	177.2	164.3	181.6	190.2	190.2
70°	8649.8	2001.4	358.8	216.1	194.5	168.6	159.9	151.3	164.3	168.6	168.6
72.5°	5416.4	951.0	229.1	159.9	164.3	159.9	134.0	142.6	147.0	151.3	151.3
75°	2623.9	376.1	155.6	116.7	134.0	151.3	108.1	125.4	129.7	138.3	134.0
77.5°	730.5	181.6	99.4	86.5	116.7	116.7	82.1	99.4	116.7	147.0	134.0
80°	211.8	116.7	64.8	64.8	82.1	82.1	56.2	69.2	77.8	86.5	90.8
82.5°	147.0	77.8	43.2	47.5	47.5	51.9	34.6	34.6	43.2	43.2	47.5
85°	116.7	34.6	25.9	30.3	21.6	25.9	17.3	17.3	21.6	17.3	17.3
87.5°	47.5	17.3	17.3	17.3	13.0	13.0	8.6	4.3	4.3	4.3	4.3
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)