

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: P1211294

Luminaire Tested: **ARCH4-230-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23822 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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



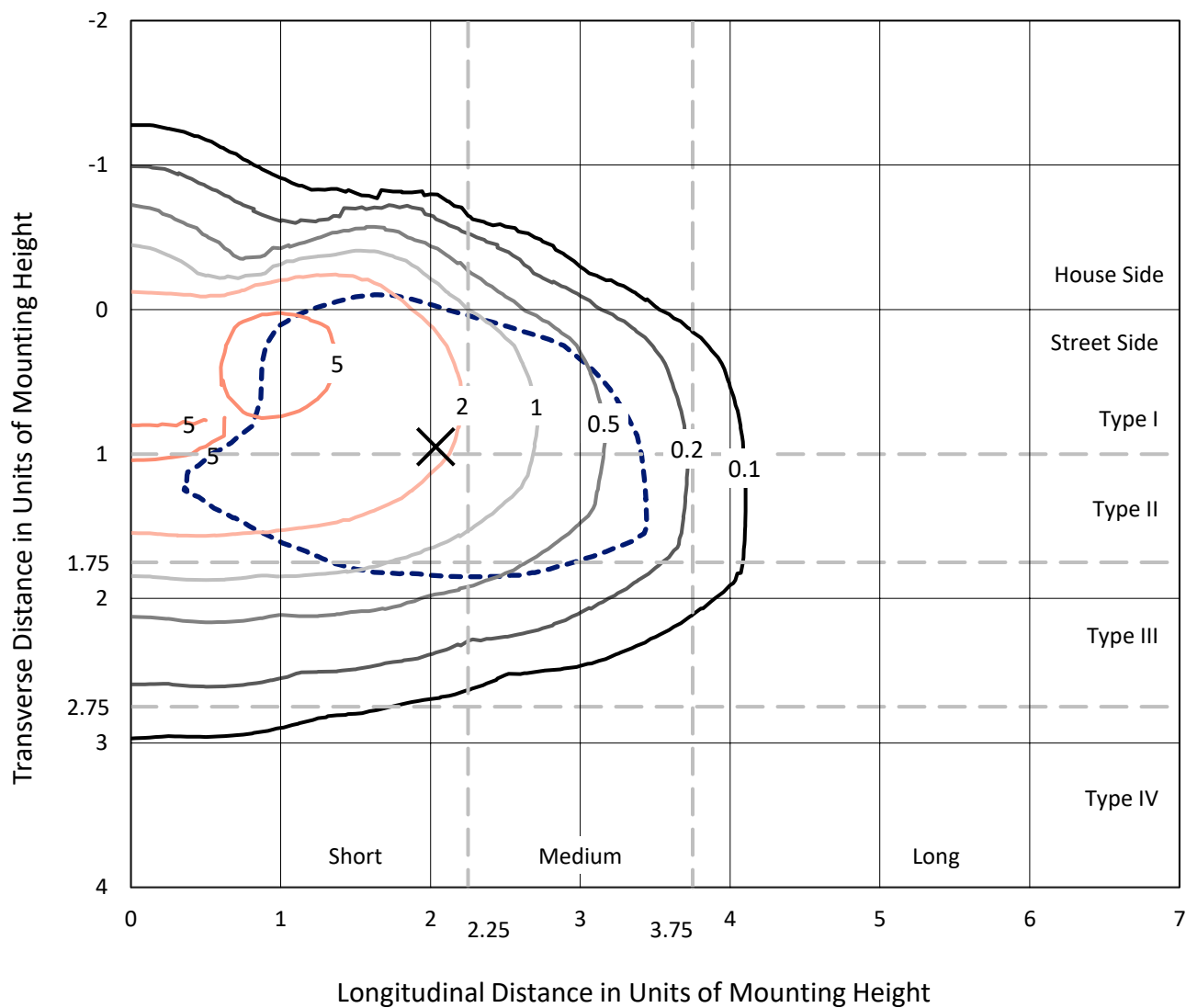
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Iso-Footcandle Lines of Horizontal Illumination

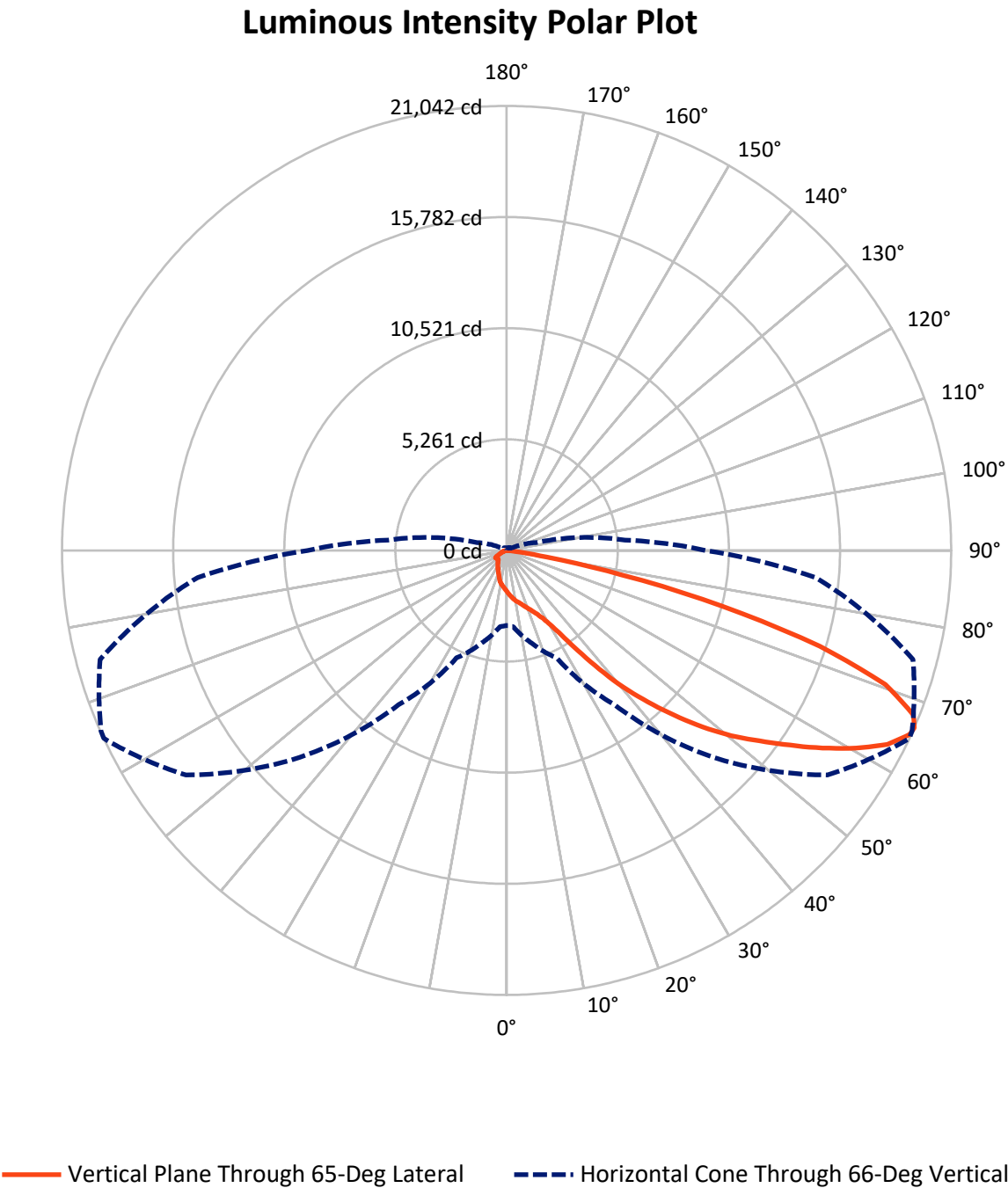
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2811.5	0.0	2811.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21010.5	0.0	21010.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	23822.0	0.0	23822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	0.8
10°-20°	544.7	2.3
20°-30°	996.9	4.2
30°-40°	2025.7	8.5
40°-50°	4277.8	18.0
50°-60°	6576.3	27.6
60°-70°	6619.6	27.8
70°-80°	2473.4	10.4
80°-90°	123.6	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°	23822.0	100.0
0°-180°	23822.0	100.0

Coefficient of Utilization



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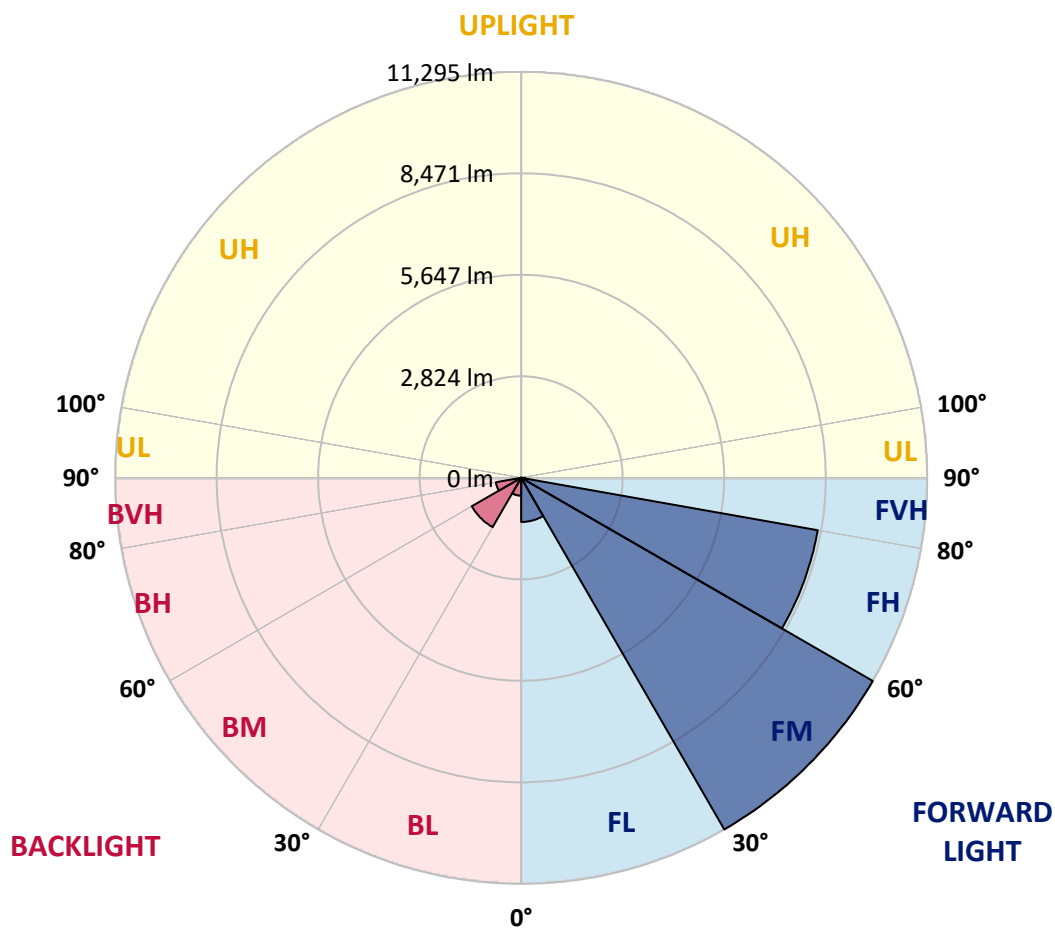
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1228.0	5.2			
FM	(30°-60°)	11294.7	47.4			
FH	(60°-80°)	8378.8	35.2			G4/12000
FVH	(80°-90°)	109.0	0.5			G2/225
BL	(0°-30°)	497.6	2.1	B1/500		
BM	(30°-60°)	1585.1	6.7	B2/2500		
BH	(60°-80°)	714.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	14.5	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	2213.1	2217.5	2208.8	2191.5	2174.2	2152.6	2118.0	2061.9	2053.2	2014.3	1971.1
5°	2364.4	2373.1	2360.1	2355.8	2347.1	2316.9	2269.3	2187.2	2178.6	2100.8	2001.3
7.5°	2416.3	2429.3	2420.6	2420.6	2420.6	2407.7	2386.0	2312.6	2299.6	2200.2	2048.9
10°	2455.2	2463.9	2459.5	2476.8	2489.8	2481.1	2468.2	2424.9	2412.0	2312.6	2113.7
12.5°	2515.7	2520.0	2524.4	2533.0	2554.6	2563.3	2558.9	2520.0	2511.4	2442.2	2195.9
15°	2571.9	2571.9	2576.2	2615.1	2645.4	2662.7	2667.0	2636.8	2628.1	2571.9	2299.6
17.5°	2623.8	2628.1	2641.1	2684.3	2736.2	2770.8	2792.4	2779.4	2766.4	2723.2	2420.6
20°	2701.6	2710.2	2723.2	2783.7	2835.6	2891.8	2935.0	2930.7	2926.4	2896.1	2563.3
22.5°	2835.6	2844.2	2865.8	2922.0	2973.9	3043.1	3116.6	3112.2	3099.3	3077.7	2731.8
25°	3038.7	3038.7	3051.7	3099.3	3164.1	3246.2	3315.4	3328.4	3315.4	3302.4	2943.7
27.5°	3293.8	3298.1	3298.1	3350.0	3410.5	3514.2	3600.7	3613.6	3613.6	3600.7	3228.9
30°	3648.2	3635.3	3626.6	3669.8	3734.7	3886.0	4037.3	4063.2	4050.2	4071.8	3630.9
32.5°	4257.7	4236.1	4162.6	4171.3	4210.2	4417.6	4672.7	4763.4	4759.1	4798.0	4279.3
35°	5100.6	5057.4	4949.3	4858.5	4854.2	5079.0	5468.0	5809.5	5805.2	5939.2	5264.9
37.5°	6051.6	6107.8	5904.6	5749.0	5701.4	5878.7	6380.1	7119.2	7158.1	7391.6	6557.3
40°	7322.4	7357.0	7097.6	6877.2	6652.4	6717.2	7378.6	8528.4	8597.5	8856.9	7849.7
42.5°	8429.0	8463.5	8312.3	8044.3	7759.0	7637.9	8385.7	9807.9	9864.0	10222.8	9181.1
45°	9181.1	9207.0	9258.9	9284.8	8960.6	8709.9	9617.7	11121.9	11191.1	11606.0	10482.2
47.5°	9769.0	9790.6	9894.3	10153.7	10088.8	9890.0	10871.2	12487.8	12505.1	12967.6	11748.7
50°	10041.3	10093.1	10348.2	10745.8	11031.1	11087.3	12232.8	13780.3	13827.8	14268.7	12946.0
52.5°	9738.7	9756.0	10400.0	11147.8	11722.7	12293.3	13598.7	14977.6	15115.9	15444.5	14022.3
55°	8718.6	8843.9	9820.8	11134.9	12267.4	13438.8	15059.7	16270.1	16395.4	16602.9	14969.0
57.5°	7534.2	7672.5	8861.2	10577.3	12500.8	14497.8	16412.7	17644.6	17731.1	17787.3	15837.8
60°	6509.8	6639.4	7862.7	9509.6	12267.4	15245.6	17670.6	19010.6	19084.0	18932.7	16274.4
62.5°	5251.9	5381.6	6613.5	8096.1	11351.0	15396.9	18604.2	20225.2	20255.4	19844.8	16006.4
65°	3959.5	4045.9	5074.7	6345.5	9747.3	14592.9	18816.0	20981.6	20951.4	20108.5	15202.4
66°	3548.8	3622.3	4530.0	5610.7	8913.1	13858.1	18530.8	21042.1	21011.9	19914.0	14675.0
67.5°	3060.4	3082.0	3829.8	4590.5	7456.4	12297.6	17661.9	20765.5	20791.4	19378.0	13711.1
70°	2390.4	2386.0	2818.3	3194.4	5092.0	8748.8	14731.2	19023.5	19148.9	17355.0	11692.5
72.5°	1530.2	1478.3	1729.0	1953.8	2965.3	5079.0	10741.5	15505.0	15716.8	13633.3	8709.9
75°	912.1	860.2	920.7	976.9	1422.1	2442.2	6315.2	10551.3	10754.5	8740.2	5182.7
77.5°	683.0	661.3	665.7	618.1	631.1	916.4	2883.1	5576.1	5723.0	3579.1	1966.8
80°	523.0	466.8	436.6	458.2	415.0	363.1	1072.0	1919.2	2010.0	847.2	410.6
82.5°	350.1	302.6	281.0	306.9	263.7	203.2	259.4	371.7	363.1	229.1	159.9
85°	181.5	155.6	155.6	155.6	134.0	99.4	112.4	151.3	151.3	121.0	95.1
87.5°	51.9	47.5	56.2	51.9	38.9	38.9	43.2	51.9	51.9	47.5	43.2
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°	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8	1940.8
2.5°	1936.5	1919.2	1871.7	1837.1	1802.5	1772.2	1737.7	1729.0	1711.7	1716.1	1707.4
5°	1949.5	1901.9	1819.8	1742.0	1681.5	1629.6	1564.8	1538.8	1504.2	1491.3	1482.6
7.5°	1966.8	1897.6	1776.6	1668.5	1564.8	1461.0	1357.3	1296.8	1257.9	1240.6	1227.6
10°	2005.7	1914.9	1755.0	1586.4	1409.1	1262.2	1158.4	1115.2	1089.3	1085.0	1080.6
12.5°	2057.5	1940.8	1733.3	1482.6	1249.2	1110.9	1046.1	1033.1	1028.8	1028.8	1024.4
15°	2135.3	1984.0	1698.8	1361.6	1123.9	1028.8	998.5	976.9	968.3	968.3	968.3
17.5°	2213.1	2035.9	1646.9	1236.2	1037.4	976.9	946.6	933.7	925.0	929.3	925.0
20°	2312.6	2096.4	1577.7	1128.2	981.2	933.7	903.4	890.4	886.1	886.1	886.1
22.5°	2424.9	2165.6	1491.3	1046.1	933.7	890.4	860.2	847.2	838.6	842.9	842.9
25°	2576.2	2252.0	1400.5	963.9	886.1	847.2	812.6	795.3	795.3	799.7	804.0
27.5°	2770.8	2355.8	1309.7	912.1	842.9	804.0	765.1	747.8	752.1	760.8	760.8
30°	3056.0	2498.4	1219.0	855.9	795.3	752.1	717.5	700.3	708.9	726.2	726.2
32.5°	3462.4	2731.8	1141.2	791.0	726.2	678.6	644.1	631.1	652.7	687.3	687.3
35°	4188.5	3159.8	1093.6	726.2	652.7	596.5	553.3	540.3	570.6	613.8	613.8
37.5°	5161.1	3847.1	1110.9	670.0	592.2	527.4	479.8	462.5	484.1	523.0	536.0
40°	6246.1	4677.0	1262.2	622.4	536.0	471.2	423.6	406.3	419.3	436.6	440.9
42.5°	7331.0	5558.8	1547.5	587.9	492.8	423.6	380.4	367.4	376.1	380.4	384.7
45°	8411.7	6431.9	1906.2	566.3	453.9	384.7	341.5	341.5	345.8	345.8	345.8
47.5°	9436.1	7283.5	2282.3	561.9	419.3	345.8	311.2	315.5	315.5	319.9	319.9
50°	10404.4	8044.3	2662.7	574.9	389.0	311.2	285.3	285.3	285.3	289.6	285.3
52.5°	11212.7	8709.9	3060.4	596.5	358.8	285.3	259.4	259.4	259.4	263.7	259.4
55°	11977.8	9315.1	3466.7	626.8	332.8	263.7	237.7	229.1	229.1	233.4	229.1
57.5°	12600.2	9717.1	3851.4	631.1	311.2	242.1	220.4	207.5	207.5	207.5	207.5
60°	12626.2	9483.7	3963.8	553.3	285.3	220.4	198.8	181.5	185.9	185.9	185.9
62.5°	11800.5	8256.1	3185.7	415.0	255.0	198.8	181.5	164.3	164.3	164.3	164.3
65°	10179.6	6423.3	1867.3	328.5	220.4	177.2	159.9	147.0	147.0	147.0	142.6
66°	9418.8	5632.3	1430.8	298.3	207.5	172.9	155.6	142.6	138.3	134.0	134.0
67.5°	8178.3	4452.2	894.8	263.7	190.2	159.9	142.6	129.7	125.4	121.0	121.0
70°	6159.6	2826.9	436.6	203.2	164.3	138.3	125.4	112.4	108.1	103.7	99.4
72.5°	4322.5	1655.5	229.1	155.6	134.0	121.0	108.1	95.1	90.8	86.5	86.5
75°	2442.2	799.7	151.3	112.4	108.1	99.4	90.8	77.8	73.5	73.5	73.5
77.5°	925.0	276.6	103.7	82.1	86.5	77.8	64.8	64.8	60.5	64.8	60.5
80°	242.1	121.0	64.8	60.5	64.8	56.2	47.5	51.9	51.9	51.9	51.9
82.5°	129.7	69.2	38.9	43.2	38.9	38.9	30.3	34.6	38.9	34.6	38.9
85°	90.8	34.6	21.6	21.6	17.3	17.3	13.0	17.3	21.6	17.3	17.3
87.5°	47.5	13.0	13.0	13.0	13.0	8.6	4.3	0.0	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)