

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: P1211222

Luminaire Tested: **ARCH4-210-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211222
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: ARCH4-210-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA 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: 19486 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 213.1
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



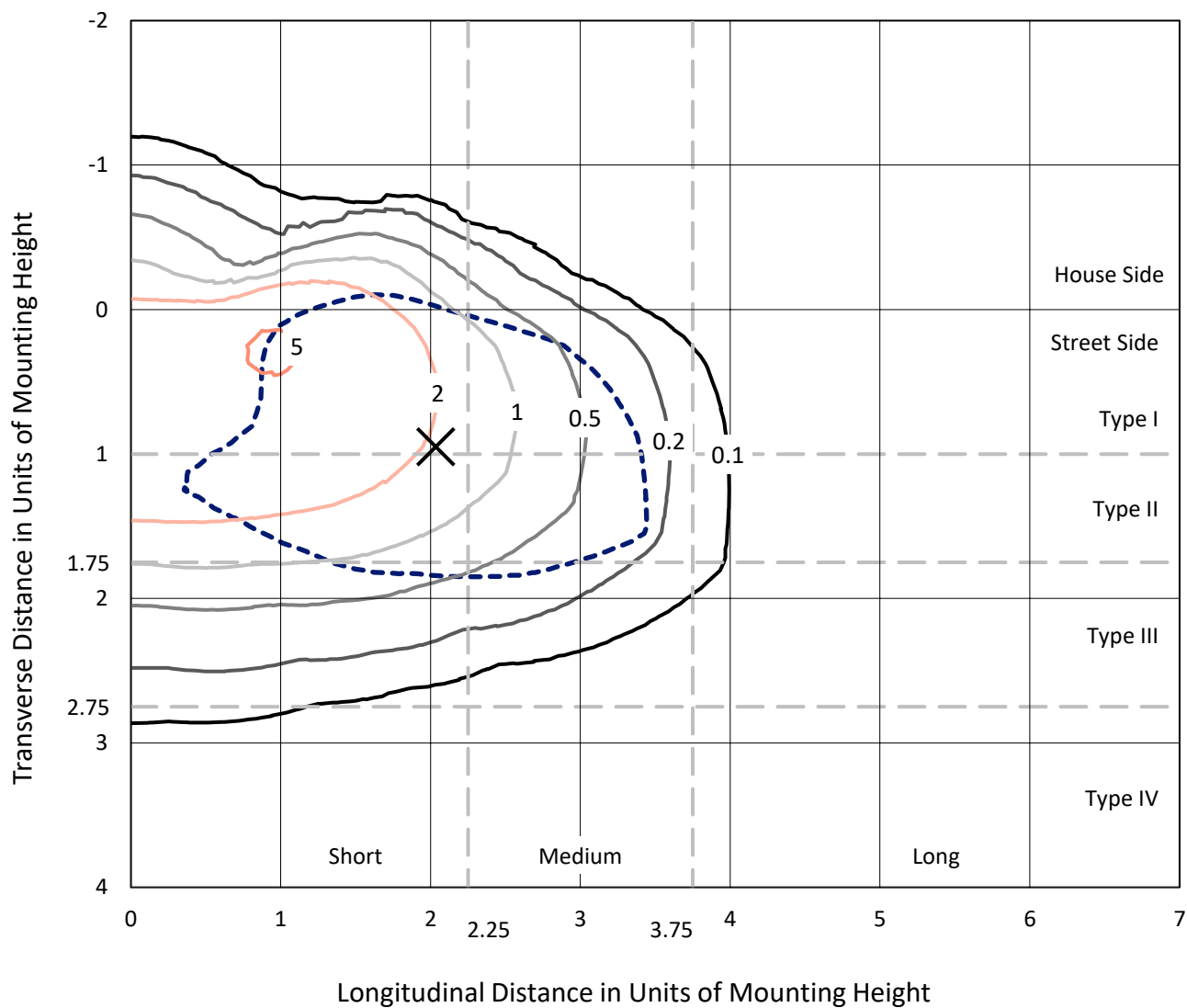
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

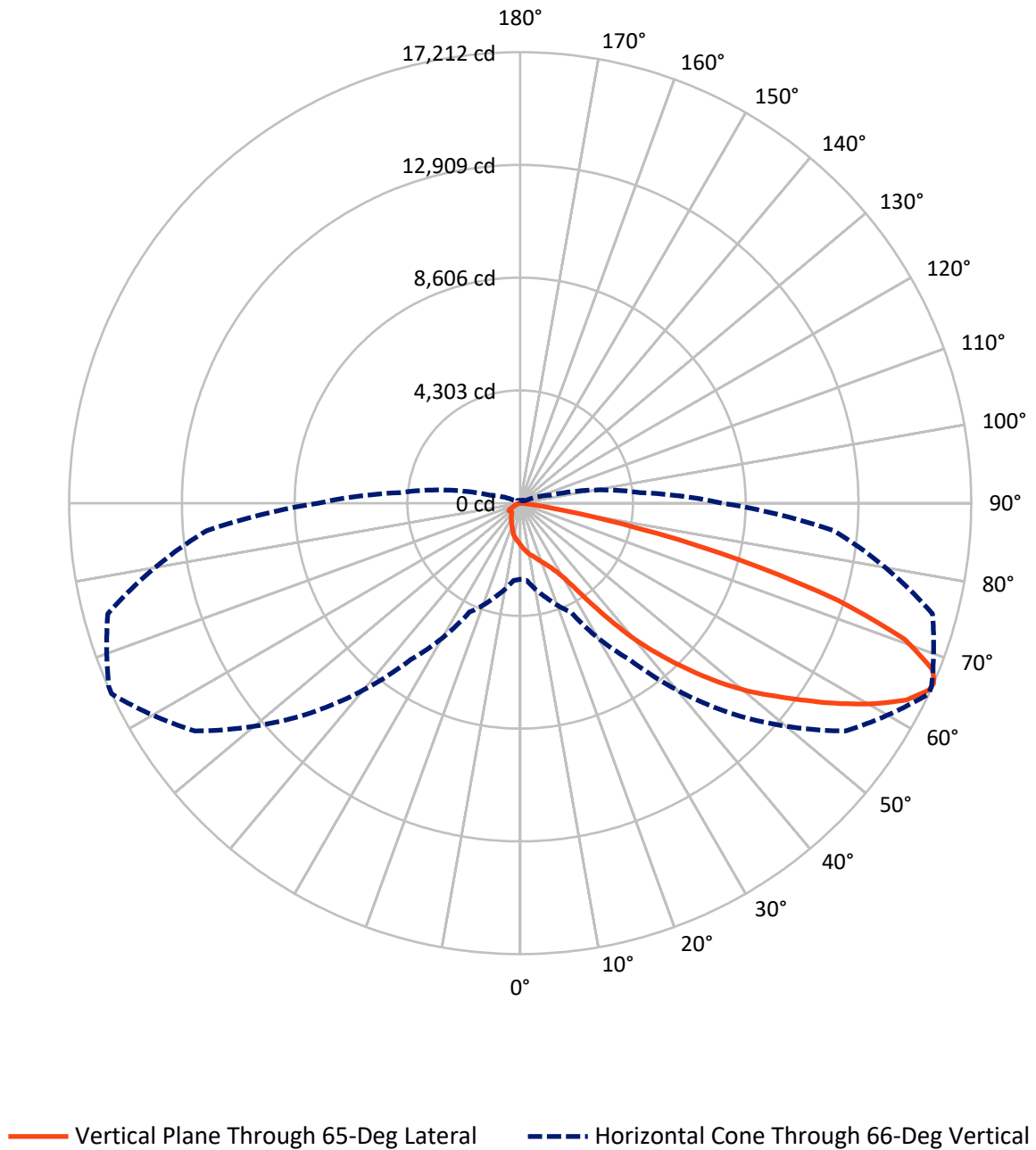
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2299.7	0.0	2299.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17186.2	0.0	17186.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	19486.0	0.0	19486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	0.8
10°-20°	445.5	2.3
20°-30°	815.5	4.2
30°-40°	1657.0	8.5
40°-50°	3499.2	18.0
50°-60°	5379.3	27.6
60°-70°	5414.7	27.8
70°-80°	2023.2	10.4
80°-90°	101.1	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°	19486.0	100.0
0°-180°	19486.0	100.0

Coefficient of Utilization



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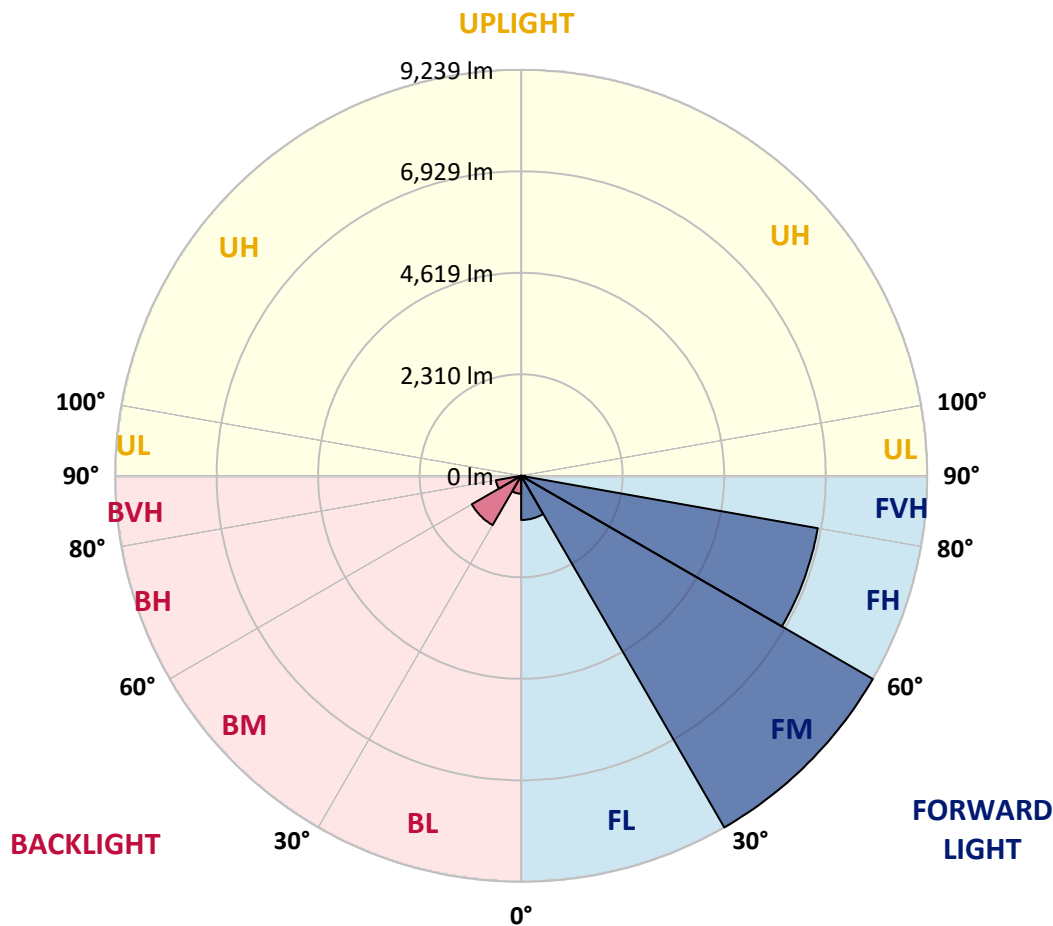
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.5	5.2			
FM	(30°-60°)	9238.9	47.4			
FH	(60°-80°)	6853.7	35.2			G3/7500
FVH	(80°-90°)	89.2	0.5			G1/100
BL	(0°-30°)	407.0	2.1	B1/500		
BM	(30°-60°)	1296.6	6.7	B2/2500		
BH	(60°-80°)	584.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1810.3	1813.9	1806.8	1792.6	1778.5	1760.8	1732.5	1686.6	1679.5	1647.7	1612.3
5°	1934.1	1941.1	1930.5	1927.0	1919.9	1895.2	1856.3	1789.1	1782.0	1718.4	1637.1
7.5°	1976.5	1987.1	1980.0	1980.0	1980.0	1969.4	1951.7	1891.6	1881.0	1799.7	1676.0
10°	2008.3	2015.4	2011.9	2026.0	2036.6	2029.5	2018.9	1983.6	1973.0	1891.6	1729.0
12.5°	2057.8	2061.4	2064.9	2072.0	2089.6	2096.7	2093.2	2061.4	2054.3	1997.7	1796.2
15°	2103.8	2103.8	2107.3	2139.1	2163.9	2178.0	2181.6	2156.8	2149.7	2103.8	1881.0
17.5°	2146.2	2149.7	2160.4	2195.7	2238.1	2266.4	2284.1	2273.5	2262.9	2227.5	1980.0
20°	2209.9	2216.9	2227.5	2277.0	2319.5	2365.4	2400.8	2397.3	2393.7	2369.0	2096.7
22.5°	2319.5	2326.5	2344.2	2390.2	2432.6	2489.2	2549.3	2545.8	2535.1	2517.5	2234.6
25°	2485.6	2485.6	2496.3	2535.1	2588.2	2655.4	2711.9	2722.5	2711.9	2701.3	2407.9
27.5°	2694.3	2697.8	2697.8	2740.2	2789.7	2874.6	2945.3	2955.9	2955.9	2945.3	2641.2
30°	2984.2	2973.6	2966.5	3001.9	3054.9	3178.7	3302.4	3323.6	3313.0	3330.7	2970.0
32.5°	3482.7	3465.1	3404.9	3412.0	3443.8	3613.6	3822.2	3896.4	3892.9	3924.7	3500.4
35°	4172.2	4136.9	4048.5	3974.2	3970.7	4154.5	4472.7	4752.1	4748.5	4858.1	4306.6
37.5°	4950.1	4996.0	4829.9	4702.6	4663.7	4808.6	5218.8	5823.4	5855.2	6046.2	5363.8
40°	5989.6	6017.9	5805.7	5625.4	5441.6	5494.6	6035.6	6976.1	7032.6	7244.8	6421.0
42.5°	6894.8	6923.0	6799.3	6580.1	6346.7	6247.7	6859.4	8022.7	8068.6	8362.1	7510.0
45°	7510.0	7531.2	7573.6	7594.8	7329.7	7124.6	7867.1	9097.5	9154.1	9493.5	8574.2
47.5°	7990.8	8008.5	8093.4	8305.5	8252.5	8089.8	8892.5	10214.8	10229.0	10607.3	9610.2
50°	8213.6	8256.0	8464.6	8789.9	9023.3	9069.3	10006.2	11272.0	11310.9	11671.6	10589.6
52.5°	7966.1	7980.2	8507.1	9118.8	9589.0	10055.7	11123.5	12251.4	12364.6	12633.3	11470.0
55°	7131.6	7234.2	8033.3	9108.1	10034.5	10992.7	12318.6	13308.6	13411.2	13580.9	12244.4
57.5°	6162.8	6276.0	7248.3	8652.0	10225.4	11859.0	13425.3	14433.0	14503.7	14549.7	12955.1
60°	5324.9	5430.9	6431.6	7778.7	10034.5	12470.7	14454.2	15550.3	15610.4	15486.7	13312.2
62.5°	4296.0	4402.0	5409.7	6622.5	9284.9	12594.4	15218.0	16543.9	16568.6	16232.7	13093.0
65°	3238.8	3309.5	4151.0	5190.5	7973.2	11936.8	15391.2	17162.6	17137.9	16448.4	12435.3
66°	2902.9	2963.0	3705.5	4589.4	7290.8	11335.7	15157.8	17212.1	17187.4	16289.3	12003.9
67.5°	2503.3	2521.0	3132.7	3755.0	6099.2	10059.3	14447.2	16985.8	17007.1	15850.9	11215.5
70°	1955.3	1951.7	2305.3	2612.9	4165.1	7156.4	12049.9	15560.9	15663.5	14196.1	9564.3
72.5°	1251.7	1209.2	1414.3	1598.2	2425.5	4154.5	8786.4	12682.8	12856.1	11151.8	7124.6
75°	746.0	703.6	753.1	799.1	1163.3	1997.7	5165.8	8630.8	8797.0	7149.3	4239.4
77.5°	558.7	541.0	544.5	505.6	516.2	749.6	2358.4	4561.1	4681.4	2927.6	1608.8
80°	427.8	381.9	357.1	374.8	339.4	297.0	876.9	1569.9	1644.1	693.0	335.9
82.5°	286.4	247.5	229.8	251.0	215.7	166.2	212.1	304.1	297.0	187.4	130.8
85°	148.5	127.3	127.3	127.3	109.6	81.3	91.9	123.8	123.8	99.0	77.8
87.5°	42.4	38.9	46.0	42.4	31.8	31.8	35.4	42.4	42.4	38.9	35.4
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°	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6	1587.6
2.5°	1584.0	1569.9	1531.0	1502.7	1474.4	1449.7	1421.4	1414.3	1400.2	1403.7	1396.6
5°	1594.6	1555.7	1488.6	1424.9	1375.4	1333.0	1279.9	1258.7	1230.4	1219.8	1212.8
7.5°	1608.8	1552.2	1453.2	1364.8	1279.9	1195.1	1110.2	1060.7	1028.9	1014.8	1004.2
10°	1640.6	1566.3	1435.5	1297.6	1152.7	1032.4	947.6	912.2	891.0	887.5	883.9
12.5°	1683.0	1587.6	1417.8	1212.8	1021.8	908.7	855.7	845.0	841.5	841.5	838.0
15°	1746.7	1622.9	1389.6	1113.8	919.3	841.5	816.8	799.1	792.0	792.0	792.0
17.5°	1810.3	1665.3	1347.1	1011.2	848.6	799.1	774.3	763.7	756.7	760.2	756.7
20°	1891.6	1714.8	1290.6	922.8	802.6	763.7	739.0	728.4	724.8	724.8	724.8
22.5°	1983.6	1771.4	1219.8	855.7	763.7	728.4	703.6	693.0	685.9	689.5	689.5
25°	2107.3	1842.1	1145.6	788.5	724.8	693.0	664.7	650.6	650.6	654.1	657.7
27.5°	2266.4	1927.0	1071.3	746.0	689.5	657.7	625.8	611.7	615.2	622.3	622.3
30°	2499.8	2043.7	997.1	700.1	650.6	615.2	586.9	572.8	579.9	594.0	594.0
32.5°	2832.2	2234.6	933.4	647.0	594.0	555.1	526.8	516.2	533.9	562.2	562.2
35°	3426.2	2584.6	894.5	594.0	533.9	487.9	452.6	442.0	466.7	502.1	502.1
37.5°	4221.7	3146.8	908.7	548.0	484.4	431.4	392.5	378.3	396.0	427.8	438.4
40°	5109.2	3825.7	1032.4	509.2	438.4	385.4	346.5	332.4	343.0	357.1	360.6
42.5°	5996.7	4547.0	1265.8	480.9	403.1	346.5	311.1	300.5	307.6	311.1	314.7
45°	6880.6	5261.2	1559.3	463.2	371.3	314.7	279.3	279.3	282.9	282.9	282.9
47.5°	7718.6	5957.8	1866.9	459.7	343.0	282.9	254.6	258.1	258.1	261.6	261.6
50°	8510.6	6580.1	2178.0	470.3	318.2	254.6	233.4	233.4	233.4	236.9	233.4
52.5°	9171.8	7124.6	2503.3	487.9	293.5	233.4	212.1	212.1	212.1	215.7	212.1
55°	9797.6	7619.6	2835.7	512.7	272.3	215.7	194.5	187.4	187.4	190.9	187.4
57.5°	10306.8	7948.4	3150.4	516.2	254.6	198.0	180.3	169.7	169.7	169.7	169.7
60°	10328.0	7757.5	3242.3	452.6	233.4	180.3	162.6	148.5	152.0	152.0	152.0
62.5°	9652.7	6753.3	2605.9	339.4	208.6	162.6	148.5	134.4	134.4	134.4	134.4
65°	8326.7	5254.2	1527.5	268.7	180.3	145.0	130.8	120.2	120.2	120.2	116.7
66°	7704.4	4607.1	1170.3	244.0	169.7	141.4	127.3	116.7	113.1	109.6	109.6
67.5°	6689.7	3641.8	731.9	215.7	155.6	130.8	116.7	106.1	102.5	99.0	99.0
70°	5038.5	2312.4	357.1	166.2	134.4	113.1	102.5	91.9	88.4	84.9	81.3
72.5°	3535.8	1354.2	187.4	127.3	109.6	99.0	88.4	77.8	74.3	70.7	70.7
75°	1997.7	654.1	123.8	91.9	88.4	81.3	74.3	63.6	60.1	60.1	60.1
77.5°	756.7	226.3	84.9	67.2	70.7	63.6	53.0	53.0	49.5	53.0	49.5
80°	198.0	99.0	53.0	49.5	53.0	46.0	38.9	42.4	42.4	42.4	42.4
82.5°	106.1	56.6	31.8	35.4	31.8	31.8	24.8	28.3	31.8	28.3	31.8
85°	74.3	28.3	17.7	17.7	14.1	14.1	10.6	14.1	17.7	14.1	14.1
87.5°	38.9	10.6	10.6	10.6	10.6	7.1	3.5	0.0	3.5	3.5	3.5
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)