

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: P1211134

Luminaire Tested: **ARCH4-180-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211134
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: ARCH4-180-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA 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: 19614 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180
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



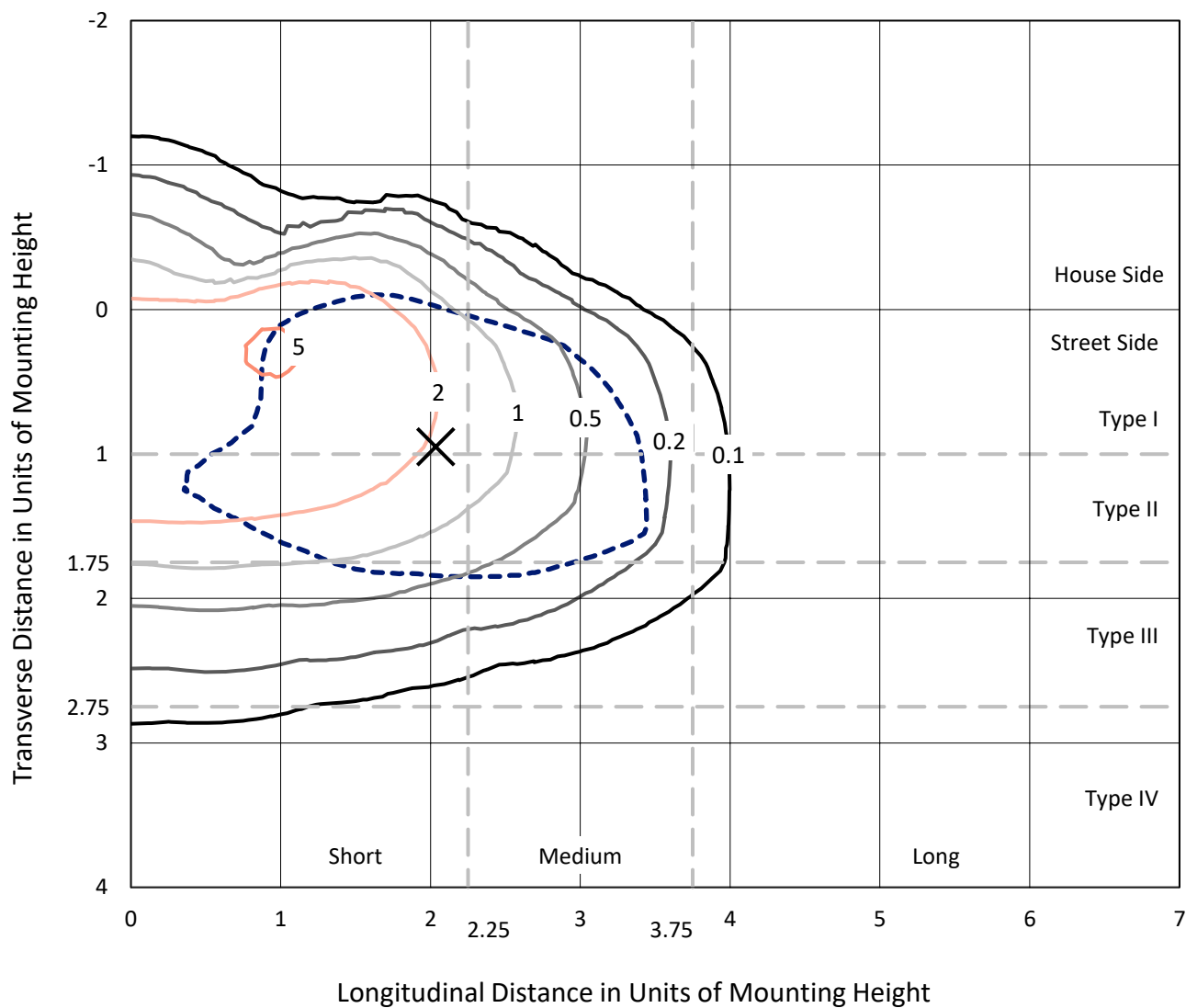
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

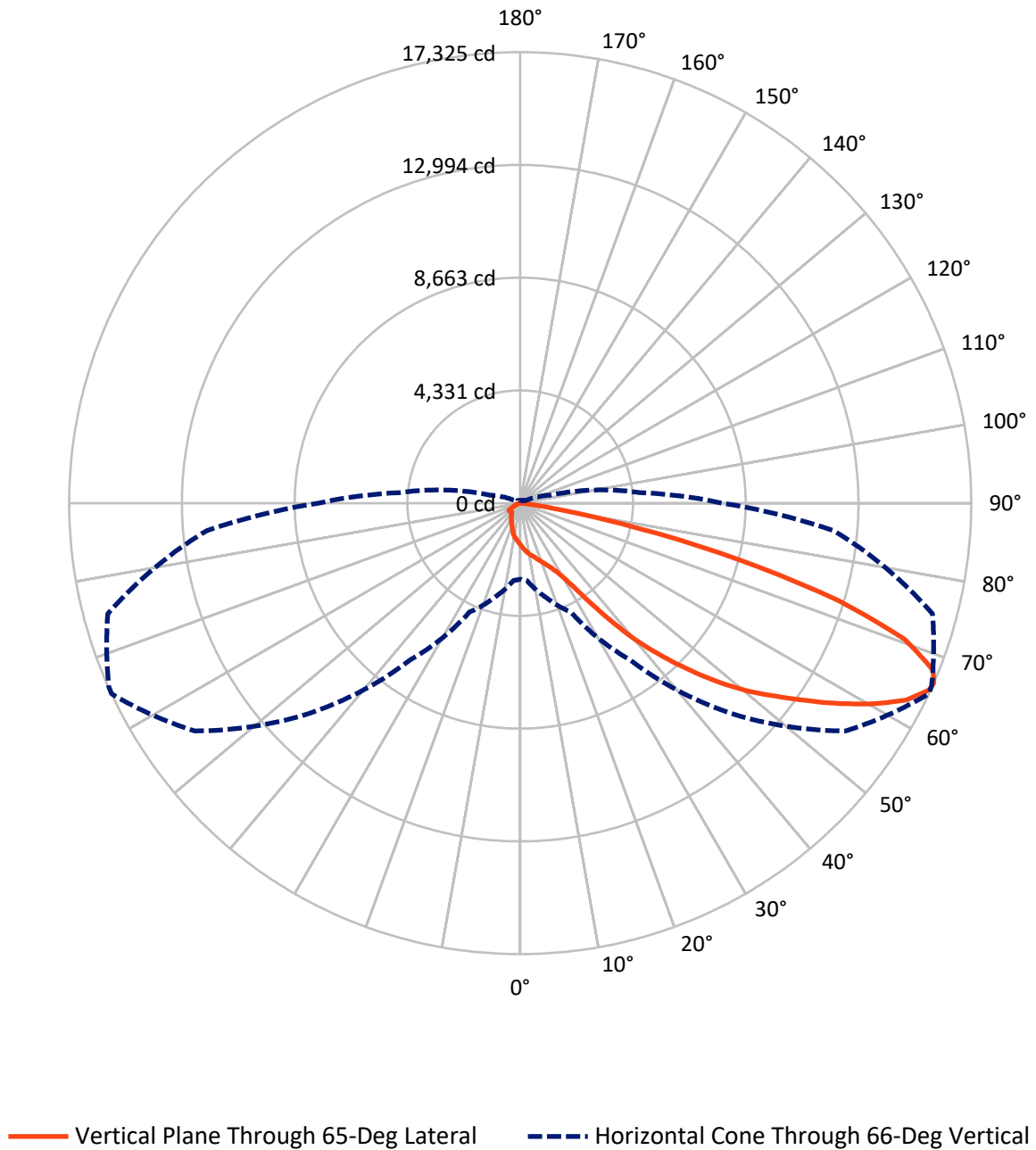
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2314.9	0.0	2314.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17299.1	0.0	17299.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	19614.0	0.0	19614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	0.8
10°-20°	448.5	2.3
20°-30°	820.8	4.2
30°-40°	1667.9	8.5
40°-50°	3522.1	18.0
50°-60°	5414.7	27.6
60°-70°	5450.3	27.8
70°-80°	2036.5	10.4
80°-90°	101.7	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°	19614.0	100.0
0°-180°	19614.0	100.0

Coefficient of Utilization



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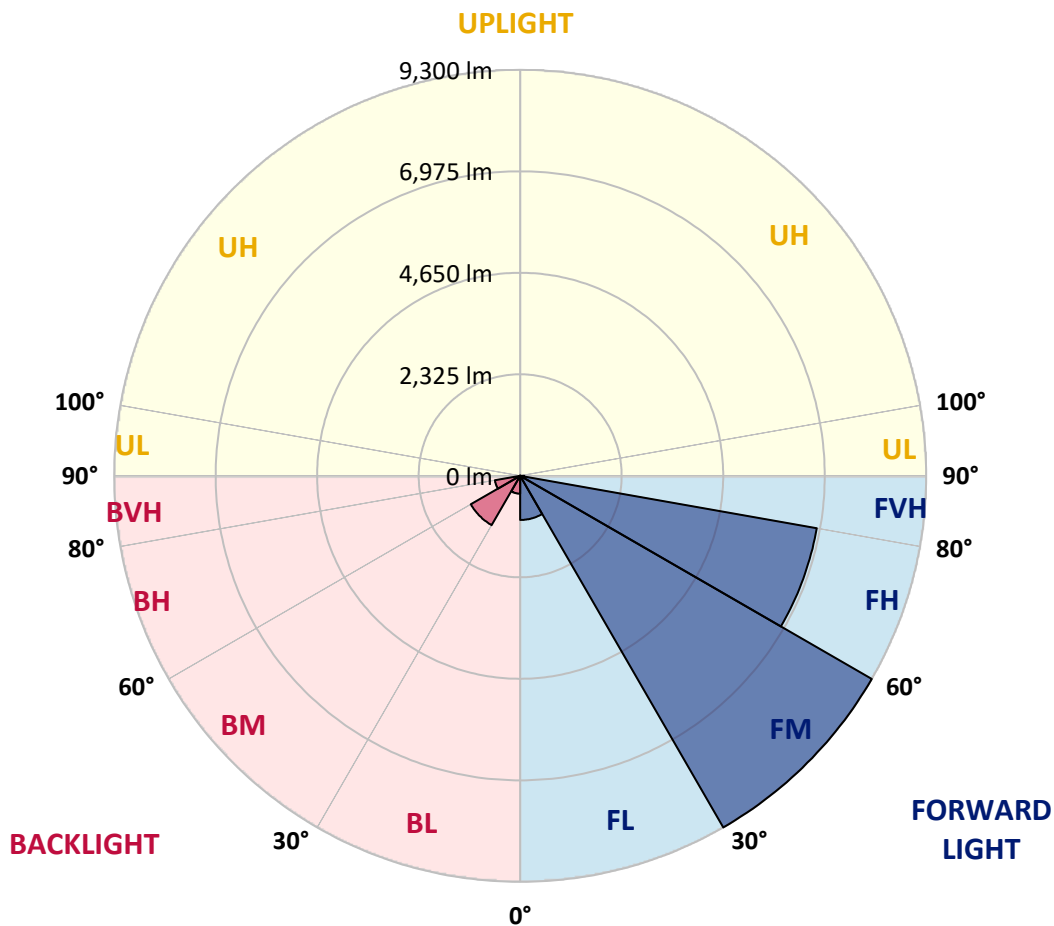
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1011.1	5.2			
FM	(30°-60°)	9299.6	47.4			
FH	(60°-80°)	6898.7	35.2			G3/7500
FVH	(80°-90°)	89.8	0.5			G1/100
BL	(0°-30°)	409.7	2.1	B1/500		
BM	(30°-60°)	1305.1	6.7	B2/2500		
BH	(60°-80°)	588.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.0	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°	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0
2.5°	1822.2	1825.8	1818.6	1804.4	1790.2	1772.4	1743.9	1697.6	1690.5	1658.5	1622.9
5°	1946.8	1953.9	1943.2	1939.7	1932.5	1907.6	1868.5	1800.9	1793.7	1729.7	1647.8
7.5°	1989.5	2000.2	1993.0	1993.0	1993.0	1982.4	1964.6	1904.1	1893.4	1811.5	1687.0
10°	2021.5	2028.6	2025.1	2039.3	2050.0	2042.9	2032.2	1996.6	1985.9	1904.1	1740.3
12.5°	2071.3	2074.9	2078.5	2085.6	2103.4	2110.5	2106.9	2074.9	2067.8	2010.8	1808.0
15°	2117.6	2117.6	2121.2	2153.2	2178.1	2192.3	2195.9	2171.0	2163.9	2117.6	1893.4
17.5°	2160.3	2163.9	2174.5	2210.1	2252.8	2281.3	2299.1	2288.4	2277.8	2242.2	1993.0
20°	2224.4	2231.5	2242.2	2292.0	2334.7	2381.0	2416.6	2413.0	2409.4	2384.5	2110.5
22.5°	2334.7	2341.8	2359.6	2405.9	2448.6	2505.5	2566.0	2562.5	2551.8	2534.0	2249.3
25°	2502.0	2502.0	2512.7	2551.8	2605.2	2672.8	2729.7	2740.4	2729.7	2719.1	2423.7
27.5°	2712.0	2715.5	2715.5	2758.2	2808.0	2893.5	2964.6	2975.3	2975.3	2964.6	2658.6
30°	3003.8	2993.1	2986.0	3021.6	3075.0	3199.5	3324.1	3345.5	3334.8	3352.6	2989.6
32.5°	3505.6	3487.8	3427.3	3434.4	3466.5	3637.3	3847.3	3922.0	3918.5	3950.5	3523.4
35°	4199.6	4164.0	4075.1	4000.3	3996.8	4181.8	4502.1	4783.3	4779.7	4890.1	4334.9
37.5°	4982.6	5028.9	4861.6	4733.5	4694.3	4840.2	5253.1	5861.7	5893.7	6085.9	5399.0
40°	6028.9	6057.4	5843.9	5662.4	5477.3	5530.7	6075.2	7021.9	7078.8	7292.4	6463.1
42.5°	6940.0	6968.5	6843.9	6623.3	6388.4	6288.7	6904.5	8075.4	8121.6	8417.0	7559.3
45°	7559.3	7580.7	7623.4	7644.7	7377.8	7171.4	7918.8	9157.3	9214.2	9555.9	8630.6
47.5°	8043.3	8061.1	8146.5	8360.1	8306.7	8143.0	8950.9	10281.9	10296.2	10677.0	9673.4
50°	8267.5	8310.3	8520.2	8847.7	9082.6	9128.8	10072.0	11346.1	11385.2	11748.2	10659.2
52.5°	8018.4	8032.7	8562.9	9178.7	9652.0	10121.8	11196.6	12331.9	12445.8	12716.3	11545.4
55°	7178.5	7281.7	8086.0	9168.0	10100.4	11064.9	12399.5	13396.1	13499.3	13670.1	12324.8
57.5°	6203.3	6317.2	7295.9	8708.9	10292.6	11936.9	13513.5	14527.8	14599.0	14645.3	13040.2
60°	5359.8	5466.6	6473.8	7829.8	10100.4	12552.6	14549.2	15652.5	15713.0	15588.4	13399.6
62.5°	4324.2	4430.9	5445.3	6666.0	9345.9	12677.1	15317.9	16652.5	16677.5	16339.4	13179.0
65°	3260.0	3331.2	4178.3	5224.6	8025.5	12015.2	15492.3	17275.4	17250.5	16556.4	12517.0
66°	2921.9	2982.4	3729.8	4619.6	7338.6	11410.1	15257.4	17325.2	17300.3	16396.3	12082.8
67.5°	2519.8	2537.6	3153.3	3779.7	6139.3	10125.3	14542.1	17097.4	17118.8	15955.0	11289.1
70°	1968.1	1964.6	2320.5	2630.1	4192.5	7203.4	12129.1	15663.1	15766.4	14289.4	9627.1
72.5°	1259.9	1217.2	1423.6	1608.7	2441.5	4181.8	8844.1	12766.1	12940.5	11225.1	7171.4
75°	750.9	708.2	758.1	804.3	1170.9	2010.8	5199.7	8687.5	8854.8	7196.3	4267.2
77.5°	562.3	544.5	548.1	508.9	519.6	754.5	2373.9	4591.1	4712.1	2946.8	1619.3
80°	430.6	384.4	359.5	377.3	341.7	299.0	882.6	1580.2	1654.9	697.6	338.1
82.5°	288.3	249.1	231.3	252.7	217.1	167.3	213.5	306.1	299.0	188.6	131.7
85°	149.5	128.1	128.1	128.1	110.3	81.9	92.5	124.6	124.6	99.7	78.3
87.5°	42.7	39.1	46.3	42.7	32.0	32.0	35.6	42.7	42.7	39.1	35.6
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°	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0	1598.0
2.5°	1594.4	1580.2	1541.0	1512.6	1484.1	1459.2	1430.7	1423.6	1409.4	1412.9	1405.8
5°	1605.1	1566.0	1498.3	1434.3	1384.4	1341.7	1288.4	1267.0	1238.5	1227.9	1220.7
7.5°	1619.3	1562.4	1462.7	1373.8	1288.4	1202.9	1117.5	1067.7	1035.7	1021.4	1010.8
10°	1651.4	1576.6	1445.0	1306.2	1160.2	1039.2	953.8	918.2	896.9	893.3	889.7
12.5°	1694.1	1598.0	1427.2	1220.7	1028.5	914.7	861.3	850.6	847.0	847.0	843.5
15°	1758.1	1633.6	1398.7	1121.1	925.3	847.0	822.1	804.3	797.2	797.2	797.2
17.5°	1822.2	1676.3	1356.0	1017.9	854.2	804.3	779.4	768.7	761.6	765.2	761.6
20°	1904.1	1726.1	1299.0	928.9	807.9	768.7	743.8	733.2	729.6	729.6	729.6
22.5°	1996.6	1783.1	1227.9	861.3	768.7	733.2	708.2	697.6	690.4	694.0	694.0
25°	2121.2	1854.2	1153.1	793.7	729.6	697.6	669.1	654.9	654.9	658.4	662.0
27.5°	2281.3	1939.7	1078.4	750.9	694.0	662.0	629.9	615.7	619.3	626.4	626.4
30°	2516.2	2057.1	1003.6	704.7	654.9	619.3	590.8	576.6	583.7	597.9	597.9
32.5°	2850.8	2249.3	939.6	651.3	597.9	558.8	530.3	519.6	537.4	565.9	565.9
35°	3448.7	2601.6	900.4	597.9	537.4	491.1	455.6	444.9	469.8	505.4	505.4
37.5°	4249.4	3167.5	914.7	551.6	487.6	434.2	395.0	380.8	398.6	430.6	441.3
40°	5142.7	3850.8	1039.2	512.5	441.3	387.9	348.8	334.5	345.2	359.5	363.0
42.5°	6036.1	4576.9	1274.1	484.0	405.7	348.8	313.2	302.5	309.6	313.2	316.8
45°	6925.8	5295.8	1569.5	466.2	373.7	316.8	281.2	281.2	284.7	284.7	284.7
47.5°	7769.3	5996.9	1879.1	462.7	345.2	284.7	256.2	259.8	259.8	263.4	263.4
50°	8566.5	6623.3	2192.3	473.3	320.3	256.2	234.9	234.9	234.9	238.5	234.9
52.5°	9232.0	7171.4	2519.8	491.1	295.4	234.9	213.5	213.5	213.5	217.1	213.5
55°	9862.0	7669.6	2854.3	516.1	274.0	217.1	195.7	188.6	188.6	192.2	188.6
57.5°	10374.5	8000.6	3171.1	519.6	256.2	199.3	181.5	170.8	170.8	170.8	170.8
60°	10395.8	7808.4	3263.6	455.6	234.9	181.5	163.7	149.5	153.0	153.0	153.0
62.5°	9716.1	6797.7	2623.0	341.7	210.0	163.7	149.5	135.2	135.2	135.2	135.2
65°	8381.4	5288.7	1537.5	270.5	181.5	145.9	131.7	121.0	121.0	121.0	117.4
66°	7755.1	4637.4	1178.0	245.6	170.8	142.4	128.1	117.4	113.9	110.3	110.3
67.5°	6733.6	3665.8	736.7	217.1	156.6	131.7	117.4	106.8	103.2	99.7	99.7
70°	5071.6	2327.6	359.5	167.3	135.2	113.9	103.2	92.5	89.0	85.4	81.9
72.5°	3559.0	1363.1	188.6	128.1	110.3	99.7	89.0	78.3	74.7	71.2	71.2
75°	2010.8	658.4	124.6	92.5	89.0	81.9	74.7	64.1	60.5	60.5	60.5
77.5°	761.6	227.8	85.4	67.6	71.2	64.1	53.4	53.4	49.8	53.4	49.8
80°	199.3	99.7	53.4	49.8	53.4	46.3	39.1	42.7	42.7	42.7	42.7
82.5°	106.8	56.9	32.0	35.6	32.0	32.0	24.9	28.5	32.0	28.5	32.0
85°	74.7	28.5	17.8	17.8	14.2	14.2	10.7	14.2	17.8	14.2	14.2
87.5°	39.1	10.7	10.7	10.7	10.7	7.1	3.6	0.0	3.6	3.6	3.6
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)