

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: P842027

Luminaire Tested: **ARCH4-260-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26290 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 259.2
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

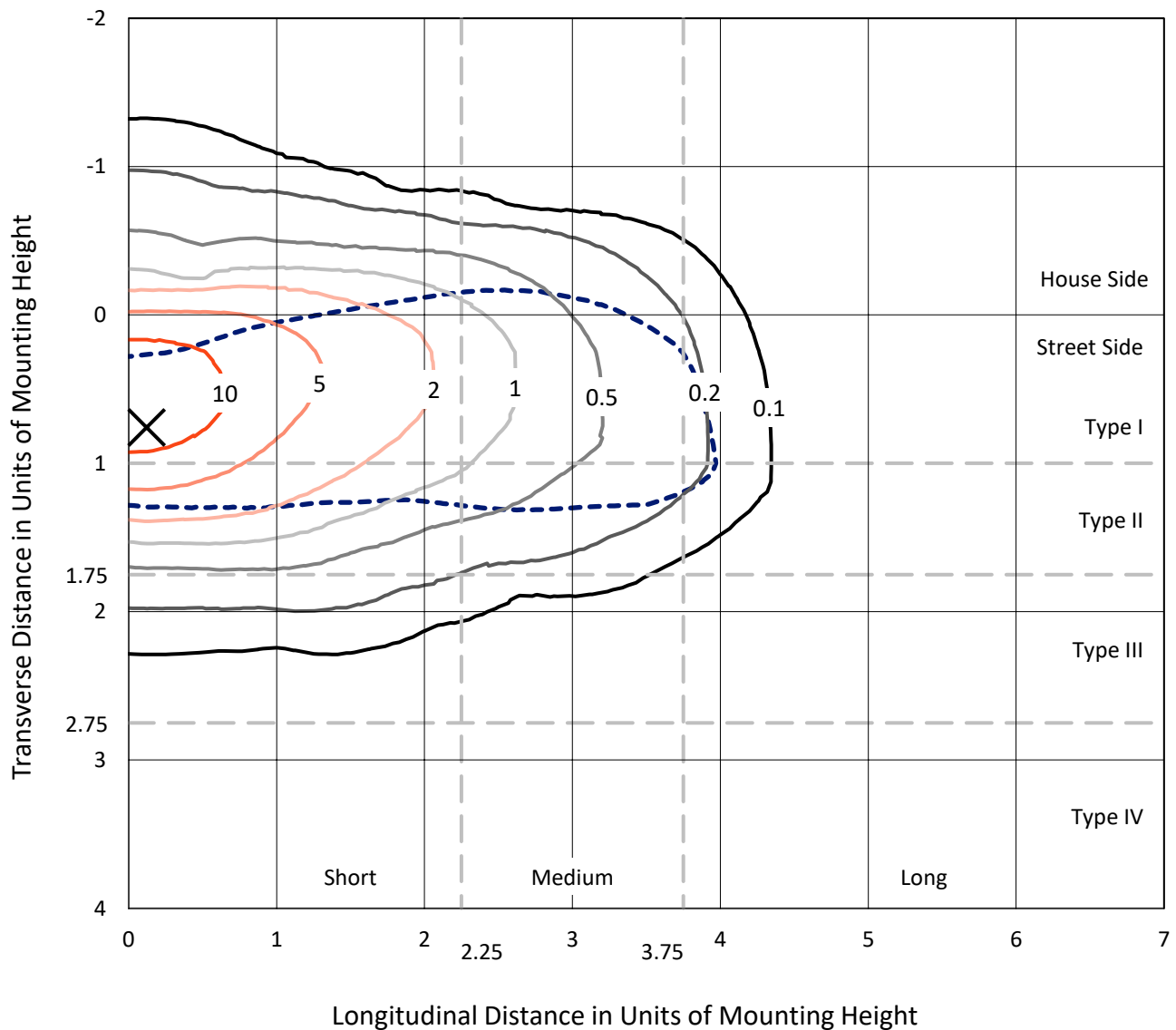


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

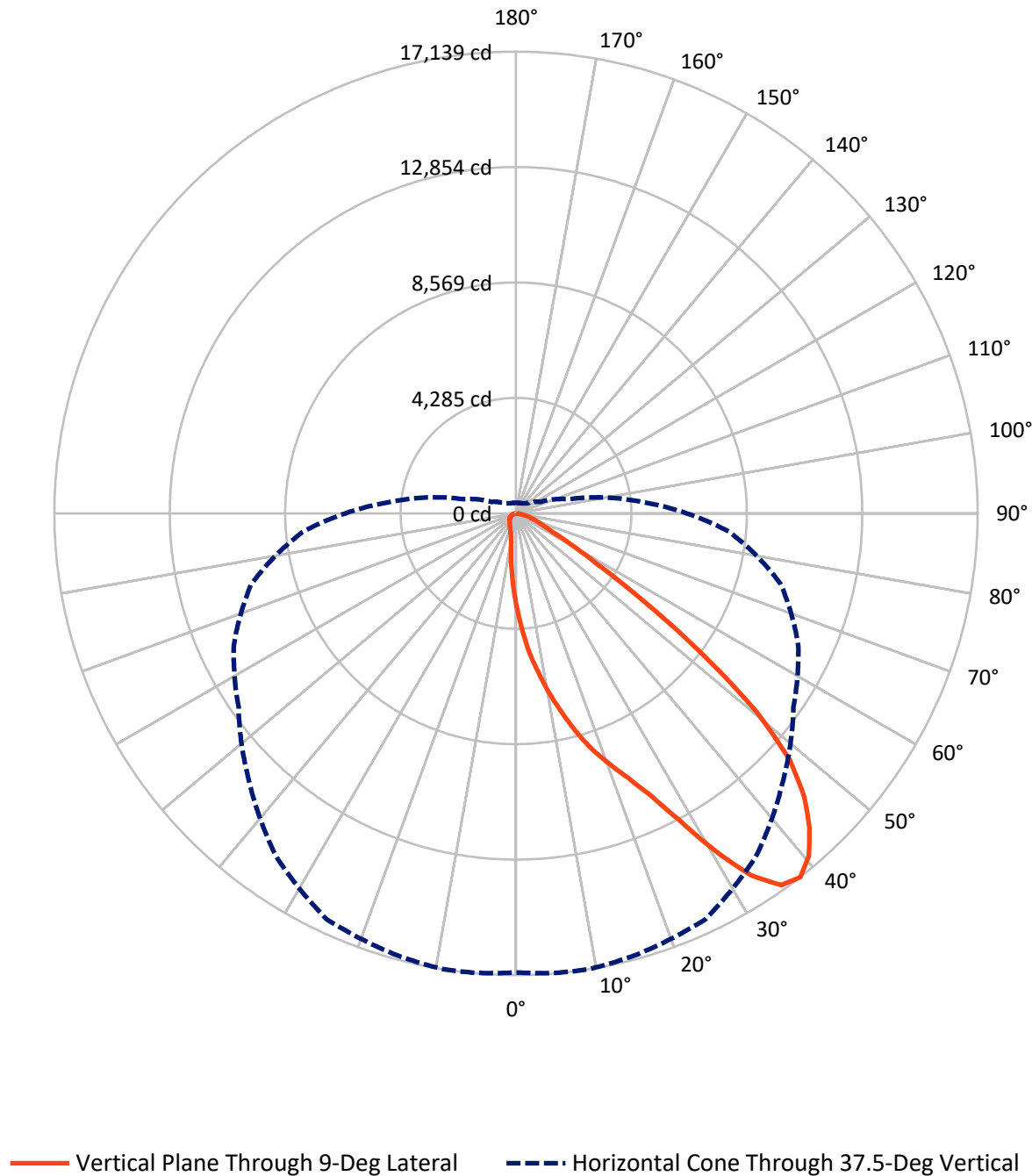


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc

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	3197.3	0.0	3197.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23092.7	0.0	23092.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	26290.0	0.0	26290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.3
10°-20°	1214.1	4.6
20°-30°	2494.7	9.5
30°-40°	4409.5	16.8
40°-50°	5857.7	22.3
50°-60°	5555.7	21.1
60°-70°	4238.5	16.1
70°-80°	2054.8	7.8
80°-90°	115.7	0.4
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°	26290.0	100.0
0°-180°	26290.0	100.0

Coefficient of Utilization



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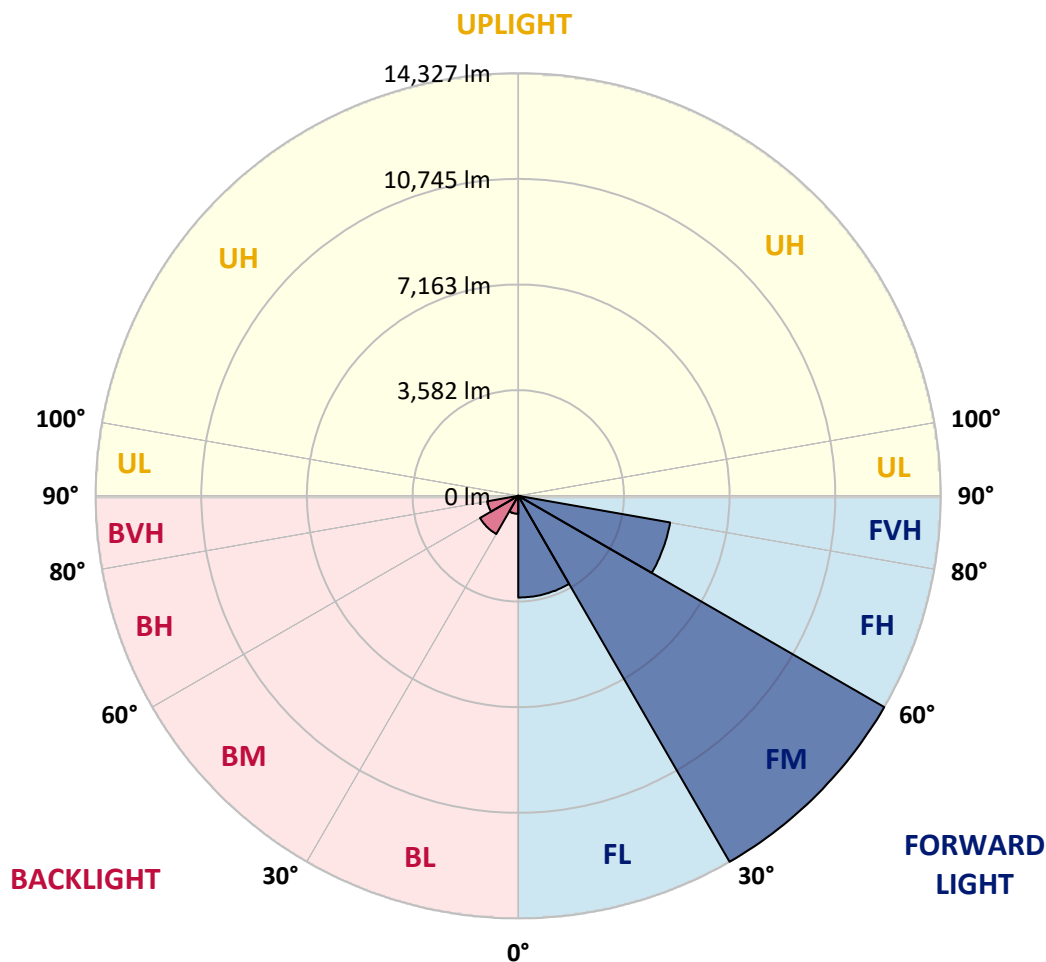
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3447.9	13.1			
FM	(30°-60°)	14326.8	54.5			
FH	(60°-80°)	5226.4	19.9			G3/7500
FVH	(80°-90°)	91.6	0.3			G1/100
BL	(0°-30°)	610.2	2.3	B2/1000		
BM	(30°-60°)	1496.1	5.7	B2/2500		
BH	(60°-80°)	1066.9	4.1	B3/2500		G3/2500
BVH	(80°-90°)	24.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2
2.5°	4306.3	4230.7	4317.0	4306.3	4230.7	4182.1	4031.0	3982.5	3804.4	3674.9	3561.6
5°	5191.2	5115.7	5191.2	5169.7	5061.7	4943.0	4694.8	4532.9	4214.5	3933.9	3680.3
7.5°	5925.1	5925.1	5957.5	5962.9	5833.4	5649.9	5342.3	5099.5	4651.6	4219.9	3815.2
10°	6718.4	6723.8	6793.9	6745.4	6572.7	6324.5	5935.9	5628.3	5088.7	4522.1	3944.7
12.5°	7565.6	7571.0	7592.6	7571.0	7366.0	7047.6	6578.1	6173.4	5552.8	4867.5	4122.8
15°	8412.8	8418.2	8445.2	8407.4	8180.8	7808.5	7274.2	6777.8	6043.9	5256.0	4338.6
17.5°	9206.1	9216.9	9238.5	9189.9	8952.5	8510.0	7964.9	7366.0	6567.3	5671.5	4581.5
20°	9918.4	9929.2	9945.4	9880.6	9643.2	9200.7	8612.5	7986.5	7101.5	6097.8	4845.9
22.5°	10636.1	10646.9	10673.9	10587.5	10323.1	9815.9	9238.5	8590.9	7668.1	6567.3	5153.5
25°	11553.5	11564.3	11585.9	11461.8	11100.2	10506.6	9896.8	9233.1	8283.3	7096.1	5531.2
27.5°	12897.2	12886.4	12886.4	12659.7	12039.2	11267.5	10560.6	9886.0	8947.1	7662.8	5946.7
30°	14559.2	14532.2	14516.1	14208.5	13323.5	12125.5	11240.5	10495.8	9583.8	8261.7	6394.6
32.5°	16048.6	16048.6	16016.2	15692.5	14753.5	13280.3	11963.6	11089.4	10199.0	8866.1	6858.7
35°	16928.2	16966.0	16949.8	16707.0	16021.6	14521.5	12940.3	11801.7	10846.6	9497.5	7414.5
37.5°	17046.9	17122.5	17138.7	16993.0	16631.4	15536.0	14025.0	12573.4	11558.9	10177.4	7954.2
40°	16566.7	16728.5	16728.5	16707.0	16577.4	16016.2	14937.0	13469.2	12292.8	10884.3	8499.2
42.5°	15827.4	15994.6	15973.1	16054.0	16021.6	15902.9	15449.6	14305.6	13026.7	11612.8	8995.6
45°	14861.4	15034.1	14990.9	15136.6	15201.4	15330.9	15395.7	14888.4	13749.8	12406.1	9551.5
47.5°	13312.7	13604.1	13668.8	13927.9	14197.7	14602.4	14910.0	15098.9	14424.3	13258.7	10155.8
50°	11024.6	11434.8	11564.3	12109.3	12848.6	13685.0	14181.5	14839.8	14899.2	14132.9	10808.8
52.5°	7894.8	8369.7	8569.3	9465.1	10986.9	12443.9	13339.7	14267.8	15082.7	14969.3	11515.7
55°	5104.9	5509.6	5703.9	6545.7	8569.3	10857.4	12346.7	13528.5	14980.1	15735.6	12325.2
57.5°	3146.0	3378.1	3507.6	4230.7	6092.4	8823.0	11046.2	12848.6	14667.2	16399.4	13167.0
60°	2120.7	2255.7	2320.4	2660.4	4139.0	6594.3	9260.1	12136.3	14257.0	16847.3	13933.3
62.5°	1408.4	1451.6	1516.4	1726.8	2730.5	4630.0	7112.3	10862.8	13949.4	16874.2	14499.9
65°	1090.1	1111.6	1138.6	1230.4	1683.6	3237.8	5002.4	8801.4	13490.8	16302.2	14677.9
67.5°	858.0	879.6	912.0	960.5	1219.6	2196.3	3405.1	6448.6	12551.8	15406.4	14386.5
70°	674.5	690.7	712.3	755.5	949.7	1591.9	2250.3	4284.7	10657.7	14553.8	13469.2
72.5°	534.2	550.4	572.0	615.2	771.7	1165.6	1543.3	2671.2	8218.6	13512.3	11704.6
75°	420.9	431.7	447.9	491.1	620.6	906.6	1046.9	1597.3	5585.2	11607.5	9119.8
77.5°	210.5	259.0	296.8	340.0	453.3	626.0	696.1	885.0	2358.2	5957.5	4349.4
80°	124.1	151.1	161.9	188.9	296.8	377.7	377.7	356.2	744.7	2288.0	1775.4
82.5°	70.2	97.1	102.5	107.9	178.1	215.9	172.7	129.5	151.1	766.3	518.0
85°	21.6	32.4	37.8	43.2	59.4	64.8	59.4	54.0	43.2	75.5	48.6
87.5°	0.0	0.0	0.0	0.0	5.4	10.8	10.8	10.8	16.2	16.2	16.2
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°	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2	3475.2
2.5°	3496.8	3426.7	3291.7	3167.6	3048.9	2962.6	2881.6	2806.1	2752.1	2708.9	2703.5
5°	3545.4	3405.1	3146.0	2903.2	2682.0	2498.5	2342.0	2217.9	2126.1	2061.4	2056.0
7.5°	3610.1	3394.3	3000.3	2638.8	2309.6	2045.2	1818.6	1651.3	1532.6	1484.0	1446.2
10°	3664.1	3383.5	2854.6	2374.4	1942.7	1608.1	1338.3	1171.0	1084.7	1052.3	1036.1
12.5°	3755.8	3394.3	2730.5	2131.5	1624.3	1230.4	1025.3	933.6	895.8	868.8	863.4
15°	3890.7	3442.8	2611.8	1894.1	1300.5	992.9	874.2	814.8	777.1	771.7	766.3
17.5°	4025.6	3486.0	2503.9	1651.3	1079.3	863.4	782.5	733.9	706.9	701.5	701.5
20°	4182.1	3540.0	2385.2	1419.2	922.8	777.1	712.3	674.5	642.2	636.8	636.8
22.5°	4365.6	3615.5	2271.8	1214.2	820.2	712.3	658.3	615.2	588.2	582.8	582.8
25°	4613.8	3728.8	2180.1	1063.1	750.1	658.3	609.8	572.0	550.4	539.6	539.6
27.5°	4889.1	3885.3	2115.4	971.3	701.5	615.2	566.6	534.2	512.6	501.9	501.9
30°	5196.6	4058.0	2072.2	933.6	674.5	577.4	534.2	501.9	474.9	469.5	469.5
32.5°	5536.6	4257.7	2045.2	939.0	669.1	550.4	501.9	469.5	447.9	437.1	437.1
35°	5914.3	4478.9	2029.0	971.3	679.9	528.8	474.9	442.5	420.9	410.1	410.1
37.5°	6335.3	4738.0	2029.0	1003.7	706.9	523.4	447.9	415.5	399.3	388.5	388.5
40°	6729.2	5013.2	2050.6	1041.5	733.9	523.4	426.3	399.3	377.7	366.9	366.9
42.5°	7036.8	5169.7	2066.8	1079.3	750.1	518.0	404.7	377.7	361.6	350.8	350.8
45°	7387.5	5336.9	2034.4	1095.4	750.1	507.3	388.5	361.6	345.4	334.6	334.6
47.5°	7776.1	5542.0	2029.0	1106.2	733.9	485.7	372.3	345.4	334.6	323.8	323.8
50°	8170.0	5768.6	2039.8	1100.8	712.3	453.3	350.8	334.6	318.4	307.6	307.6
52.5°	8617.9	6006.1	2061.4	1090.1	663.7	415.5	334.6	318.4	302.2	291.4	286.0
55°	9114.4	6265.1	2104.6	1068.5	599.0	377.7	318.4	302.2	280.6	269.8	264.4
57.5°	9686.4	6583.5	2153.1	1025.3	528.8	345.4	302.2	280.6	248.2	232.0	226.6
60°	10231.4	6945.0	2207.1	922.8	458.7	313.0	286.0	253.6	221.2	210.5	205.1
62.5°	10744.0	7301.2	2234.1	739.3	388.5	286.0	269.8	232.0	199.7	188.9	183.5
65°	11073.2	7689.7	2174.7	501.9	318.4	264.4	248.2	215.9	183.5	167.3	167.3
67.5°	11094.8	7873.2	1969.7	329.2	259.0	237.4	226.6	194.3	161.9	151.1	145.7
70°	10549.8	7598.0	1505.6	259.0	215.9	205.1	205.1	172.7	140.3	129.5	124.1
72.5°	9297.8	6729.2	960.5	210.5	183.5	172.7	172.7	145.7	124.1	107.9	102.5
75°	7339.0	5191.2	512.6	172.7	151.1	145.7	134.9	118.7	102.5	91.7	86.3
77.5°	3372.7	2288.0	237.4	124.1	113.3	113.3	102.5	86.3	80.9	70.2	70.2
80°	1332.9	777.1	118.7	80.9	75.5	75.5	75.5	59.4	59.4	48.6	43.2
82.5°	366.9	161.9	59.4	48.6	48.6	48.6	43.2	37.8	37.8	32.4	32.4
85°	37.8	27.0	27.0	27.0	27.0	21.6	21.6	16.2	10.8	10.8	10.8
87.5°	16.2	16.2	16.2	16.2	16.2	10.8	5.4	0.0	0.0	0.0	0.0
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)