

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: P841937

Luminaire Tested: **ARCH4-250-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841937
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: ARCH4-250-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA 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: 22373 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 249.5
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



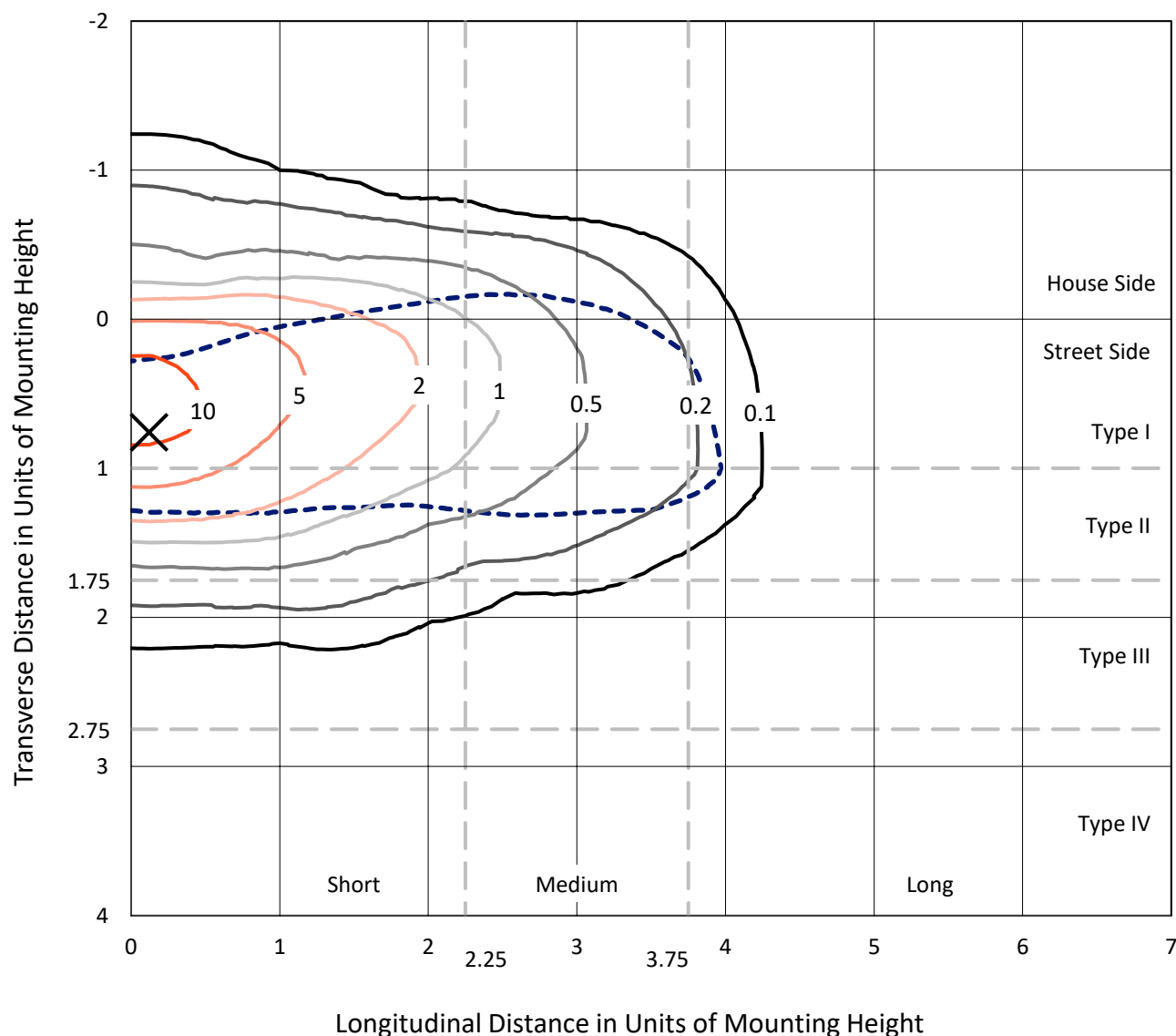
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

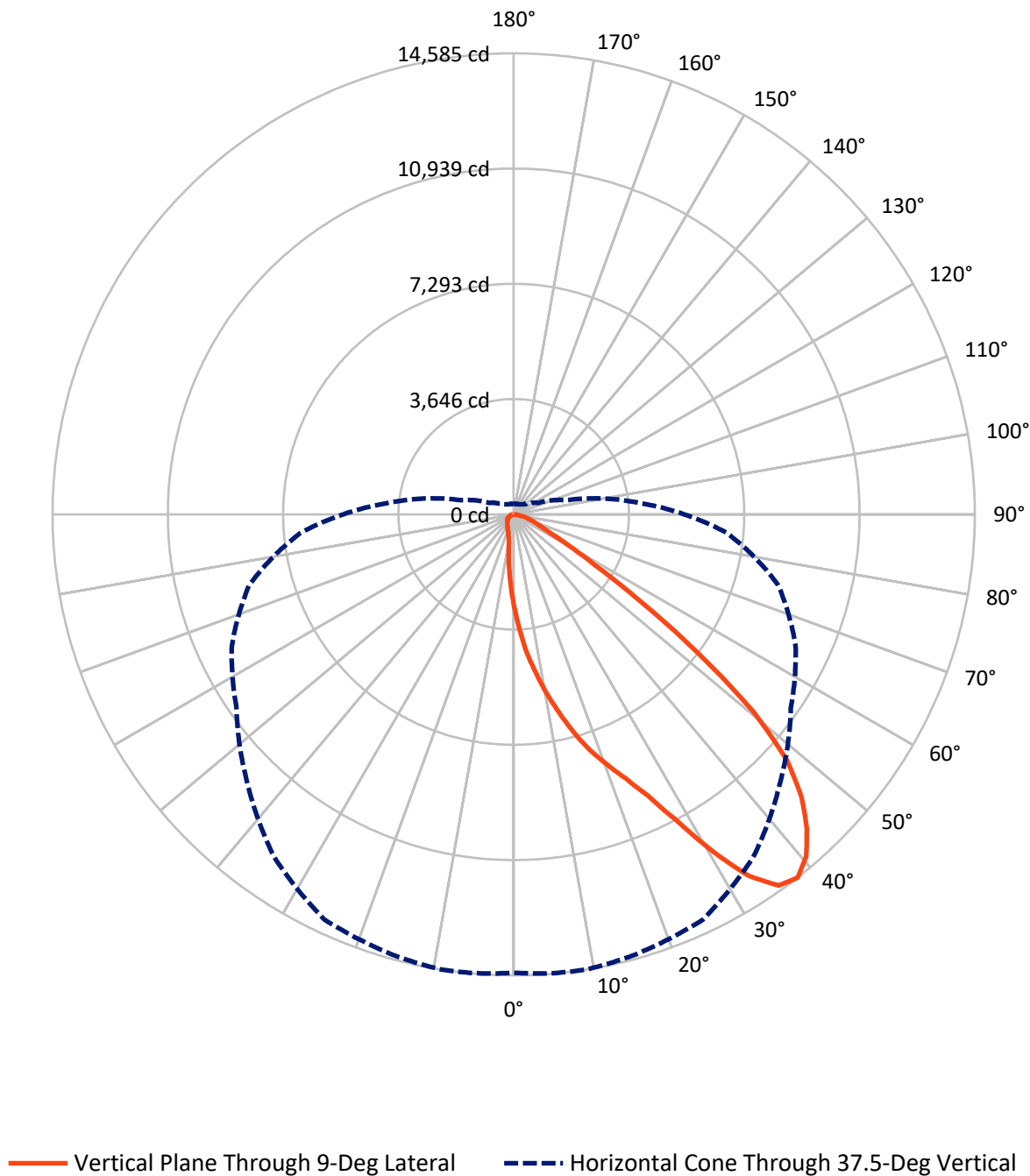


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc

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	2721.0	0.0	2721.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19652.0	0.0	19652.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	22373.0	0.0	22373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.3
10°-20°	1033.2	4.6
20°-30°	2123.0	9.5
30°-40°	3752.6	16.8
40°-50°	4985.0	22.3
50°-60°	4727.9	21.1
60°-70°	3607.0	16.1
70°-80°	1748.7	7.8
80°-90°	98.4	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°	22373.0	100.0
0°-180°	22373.0	100.0

Coefficient of Utilization



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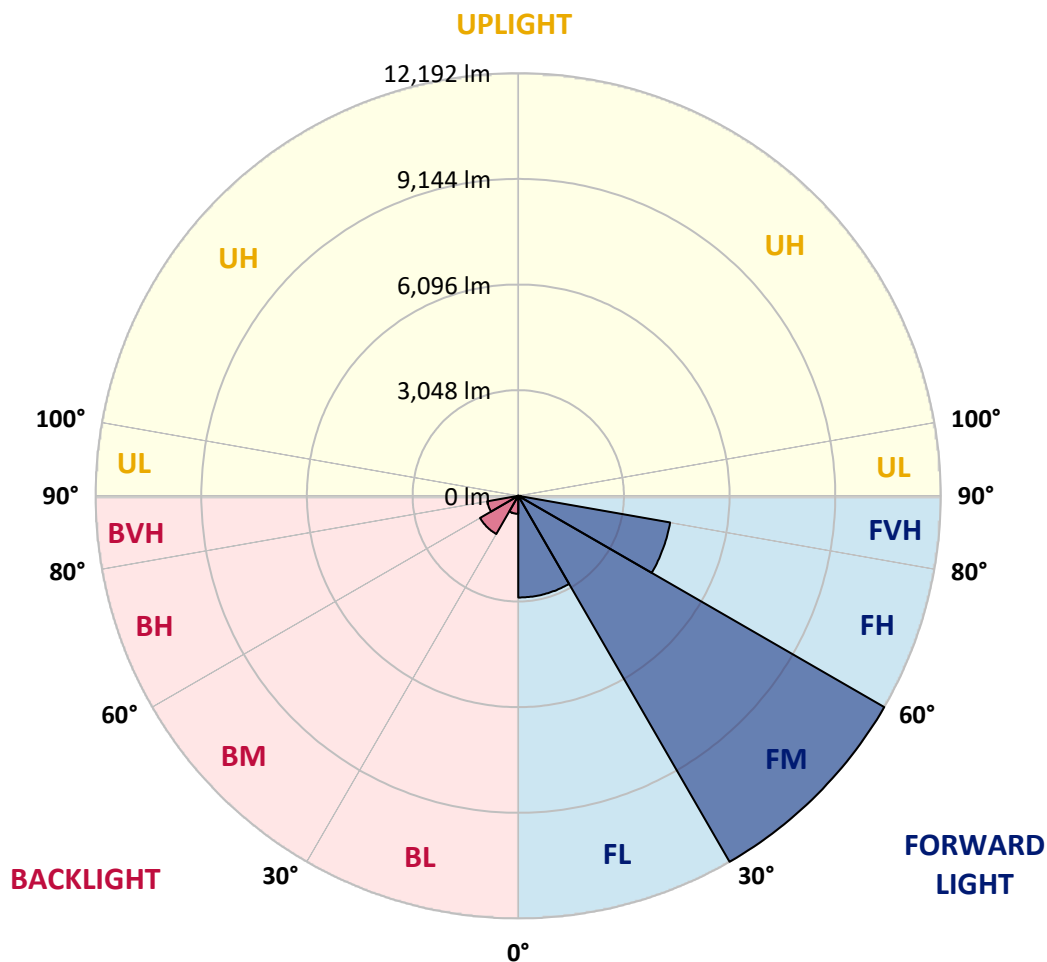
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2934.2	13.1			
FM	(30°-60°)	12192.2	54.5			
FH	(60°-80°)	4447.7	19.9			G2/5000
FVH	(80°-90°)	77.9	0.3			G1/100
BL	(0°-30°)	519.3	2.3	B2/1000		
BM	(30°-60°)	1273.2	5.7	B2/2500		
BH	(60°-80°)	908.0	4.1	B2/1000		G2/1000
BVH	(80°-90°)	20.5	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4
2.5°	3664.7	3600.4	3673.8	3664.7	3600.4	3559.0	3430.4	3389.1	3237.6	3127.4	3030.9
5°	4417.8	4353.5	4417.8	4399.4	4307.6	4206.5	3995.3	3857.5	3586.6	3347.8	3131.9
7.5°	5042.3	5042.3	5069.9	5074.5	4964.3	4808.1	4546.4	4339.7	3958.6	3591.2	3246.8
10°	5717.4	5722.0	5781.7	5740.4	5593.4	5382.2	5051.5	4789.8	4330.5	3848.3	3357.0
12.5°	6438.4	6443.0	6461.4	6443.0	6268.5	5997.5	5598.0	5253.6	4725.5	4142.3	3508.5
15°	7159.4	7164.0	7186.9	7154.8	6961.9	6645.1	6190.4	5767.9	5143.4	4472.9	3692.2
17.5°	7834.5	7843.6	7862.0	7820.7	7618.6	7242.1	6778.2	6268.5	5588.8	4826.5	3898.9
20°	8440.6	8449.8	8463.6	8408.5	8206.4	7829.9	7329.3	6796.6	6043.5	5189.3	4123.9
22.5°	9051.4	9060.6	9083.6	9010.1	8785.1	8353.4	7862.0	7310.9	6525.7	5588.8	4385.6
25°	9832.1	9841.3	9859.7	9754.0	9446.4	8941.2	8422.3	7857.4	7049.2	6038.9	4707.1
27.5°	10975.6	10966.4	10966.4	10773.5	10245.4	9588.7	8987.1	8413.1	7614.0	6521.1	5060.7
30°	12390.0	12367.1	12353.3	12091.5	11338.4	10318.9	9565.8	8932.0	8155.9	7030.8	5441.9
32.5°	13657.5	13657.5	13629.9	13354.4	12555.3	11301.6	10181.1	9437.2	8679.4	7545.1	5836.8
35°	14406.0	14438.2	14424.4	14217.8	13634.5	12357.9	11012.3	10043.4	9230.5	8082.4	6309.8
37.5°	14507.1	14571.4	14585.1	14461.1	14153.5	13221.2	11935.4	10700.1	9836.7	8661.1	6769.0
40°	14098.4	14236.1	14236.1	14217.8	14107.5	13629.9	12711.5	11462.4	10461.3	9262.7	7232.9
42.5°	13469.2	13611.6	13593.2	13662.1	13634.5	13533.5	13147.7	12174.2	11085.8	9882.6	7655.4
45°	12647.2	12794.1	12757.4	12881.4	12936.5	13046.7	13101.8	12670.2	11701.2	10557.7	8128.4
47.5°	11329.2	11577.2	11632.3	11852.7	12082.3	12426.8	12688.5	12849.2	12275.2	11283.3	8642.7
50°	9382.1	9731.1	9841.3	10305.1	10934.3	11646.1	12068.6	12628.8	12679.3	12027.2	9198.4
52.5°	6718.5	7122.7	7292.6	8054.9	9349.9	10589.8	11352.2	12142.0	12835.5	12739.0	9800.0
55°	4344.3	4688.7	4854.1	5570.5	7292.6	9239.7	10507.2	11512.9	12748.2	13391.1	10488.8
57.5°	2677.3	2874.8	2985.0	3600.4	5184.7	7508.4	9400.4	10934.3	12481.9	13956.0	11205.2
60°	1804.8	1919.6	1974.7	2264.0	3522.3	5611.8	7880.4	10328.1	12132.9	14337.2	11857.3
62.5°	1198.6	1235.3	1290.4	1469.5	2323.7	3940.2	6052.6	9244.3	11871.1	14360.1	12339.5
65°	927.6	946.0	969.0	1047.0	1432.8	2755.4	4257.1	7490.0	11480.7	13873.3	12491.1
67.5°	730.2	748.5	776.1	817.4	1037.9	1869.1	2897.7	5487.8	10681.7	13111.0	12243.1
70°	574.0	587.8	606.2	642.9	808.2	1354.7	1915.0	3646.3	9069.8	12385.4	11462.4
72.5°	454.6	468.4	486.8	523.5	656.7	991.9	1313.4	2273.2	6994.1	11499.1	9960.7
75°	358.2	367.4	381.2	417.9	528.1	771.5	890.9	1359.3	4753.0	9878.0	7761.0
77.5°	179.1	220.4	252.6	289.3	385.8	532.7	592.4	753.1	2006.8	5069.9	3701.4
80°	105.6	128.6	137.8	160.7	252.6	321.5	321.5	303.1	633.7	1947.1	1510.9
82.5°	59.7	82.7	87.3	91.8	151.5	183.7	147.0	110.2	128.6	652.1	440.9
85°	18.4	27.6	32.1	36.7	50.5	55.1	50.5	45.9	36.7	64.3	41.3
87.5°	0.0	0.0	0.0	0.0	4.6	9.2	9.2	9.2	13.8	13.8	13.8
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°	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4	2957.4
2.5°	2975.8	2916.1	2801.3	2695.7	2594.6	2521.2	2452.3	2388.0	2342.1	2305.3	2300.7
5°	3017.1	2897.7	2677.3	2470.7	2282.4	2126.2	1993.1	1887.4	1809.4	1754.3	1749.7
7.5°	3072.2	2888.6	2553.3	2245.6	1965.5	1740.5	1547.6	1405.2	1304.2	1262.9	1230.7
10°	3118.2	2879.4	2429.3	2020.6	1653.2	1368.5	1138.9	996.5	923.1	895.5	881.7
12.5°	3196.2	2888.6	2323.7	1814.0	1382.3	1047.0	872.5	794.5	762.3	739.4	734.8
15°	3311.0	2929.9	2222.7	1611.9	1106.7	845.0	744.0	693.4	661.3	656.7	652.1
17.5°	3425.9	2966.6	2130.8	1405.2	918.5	734.8	665.9	624.6	601.6	597.0	597.0
20°	3559.0	3012.5	2029.8	1207.8	785.3	661.3	606.2	574.0	546.5	541.9	541.9
22.5°	3715.2	3076.8	1933.4	1033.3	698.0	606.2	560.3	523.5	500.6	496.0	496.0
25°	3926.4	3173.3	1855.3	904.7	638.3	560.3	518.9	486.8	468.4	459.2	459.2
27.5°	4160.6	3306.5	1800.2	826.6	597.0	523.5	482.2	454.6	436.3	427.1	427.1
30°	4422.4	3453.4	1763.4	794.5	574.0	491.4	454.6	427.1	404.1	399.5	399.5
32.5°	4711.7	3623.3	1740.5	799.1	569.4	468.4	427.1	399.5	381.2	372.0	372.0
35°	5033.2	3811.6	1726.7	826.6	578.6	450.0	404.1	376.6	358.2	349.0	349.0
37.5°	5391.4	4032.0	1726.7	854.2	601.6	445.5	381.2	353.6	339.8	330.6	330.6
40°	5726.6	4266.2	1745.1	886.3	624.6	445.5	362.8	339.8	321.5	312.3	312.3
42.5°	5988.4	4399.4	1758.9	918.5	638.3	440.9	344.4	321.5	307.7	298.5	298.5
45°	6286.9	4541.8	1731.3	932.2	638.3	431.7	330.6	307.7	293.9	284.7	284.7
47.5°	6617.5	4716.3	1726.7	941.4	624.6	413.3	316.9	293.9	284.7	275.5	275.5
50°	6952.7	4909.2	1735.9	936.8	606.2	385.8	298.5	284.7	270.9	261.8	261.8
52.5°	7333.9	5111.2	1754.3	927.6	564.9	353.6	284.7	270.9	257.2	248.0	243.4
55°	7756.4	5331.7	1791.0	909.3	509.7	321.5	270.9	257.2	238.8	229.6	225.0
57.5°	8243.2	5602.6	1832.3	872.5	450.0	293.9	257.2	238.8	211.2	197.5	192.9
60°	8707.0	5910.3	1878.2	785.3	390.3	266.4	243.4	215.8	188.3	179.1	174.5
62.5°	9143.3	6213.4	1901.2	629.1	330.6	243.4	229.6	197.5	169.9	160.7	156.1
65°	9423.4	6544.0	1850.7	427.1	270.9	225.0	211.2	183.7	156.1	142.4	142.4
67.5°	9441.8	6700.2	1676.2	280.1	220.4	202.1	192.9	165.3	137.8	128.6	124.0
70°	8977.9	6466.0	1281.3	220.4	183.7	174.5	174.5	147.0	119.4	110.2	105.6
72.5°	7912.5	5726.6	817.4	179.1	156.1	147.0	147.0	124.0	105.6	91.8	87.3
75°	6245.5	4417.8	436.3	147.0	128.6	124.0	114.8	101.0	87.3	78.1	73.5
77.5°	2870.2	1947.1	202.1	105.6	96.4	96.4	87.3	73.5	68.9	59.7	59.7
80°	1134.3	661.3	101.0	68.9	64.3	64.3	64.3	50.5	50.5	41.3	36.7
82.5°	312.3	137.8	50.5	41.3	41.3	41.3	36.7	32.1	32.1	27.6	27.6
85°	32.1	23.0	23.0	23.0	23.0	18.4	18.4	13.8	9.2	9.2	9.2
87.5°	13.8	13.8	13.8	13.8	13.8	9.2	4.6	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)