

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: P836252

Luminaire Tested: **ARCH3-160-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15671 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 161
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



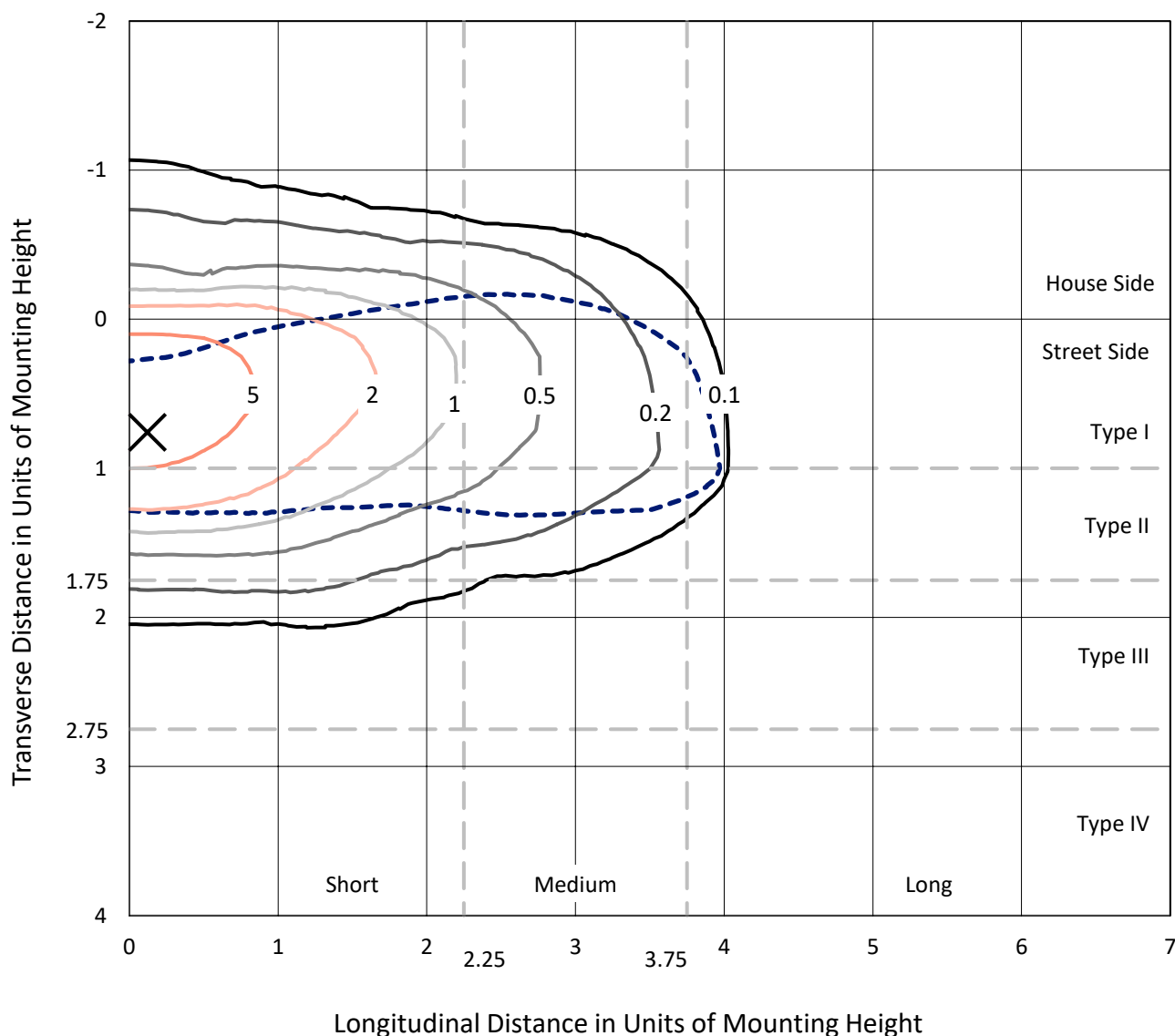
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

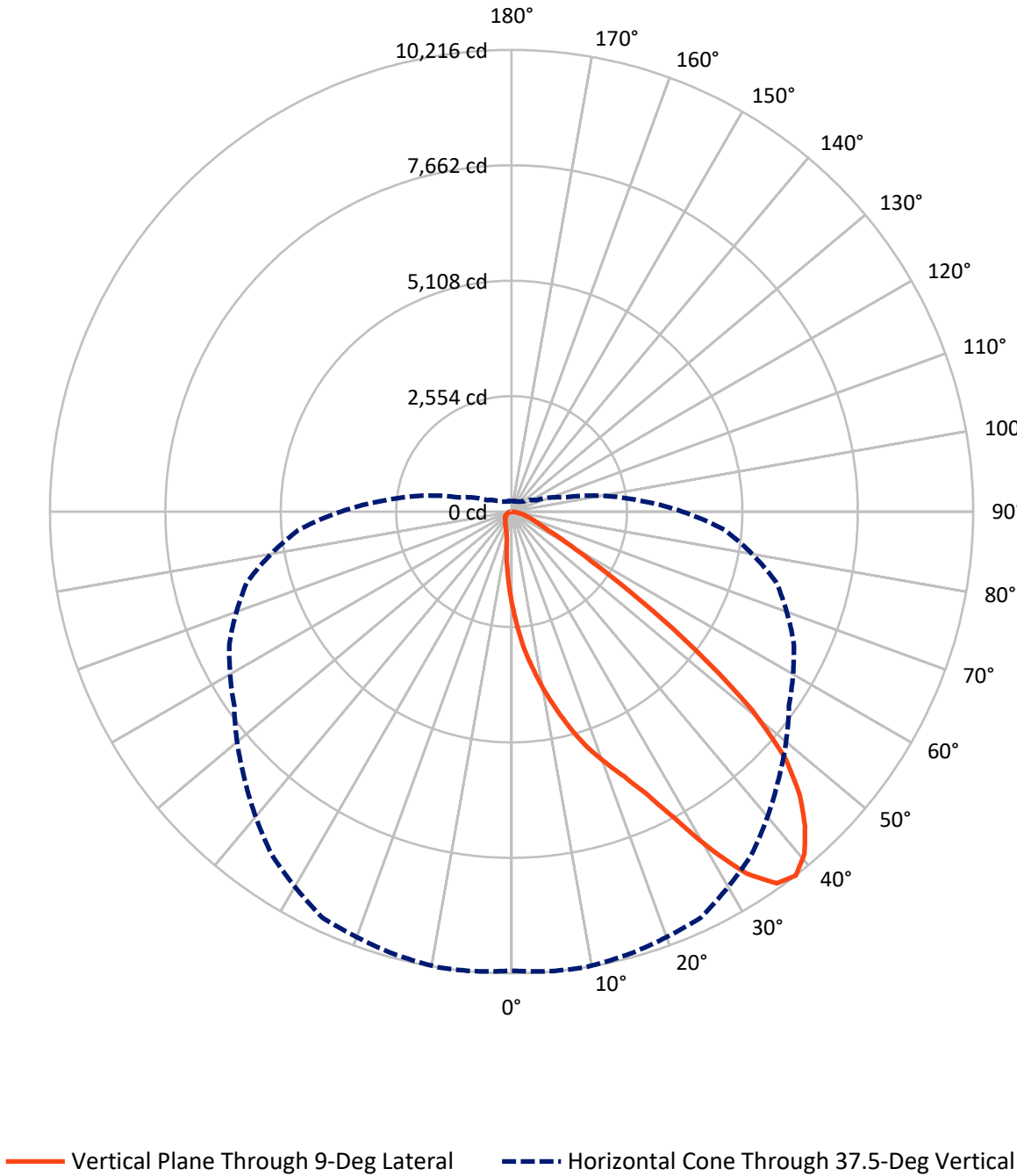


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc

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	1905.9	0.0	1905.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13765.1	0.0	13765.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	15671.0	0.0	15671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.3
10°-20°	723.7	4.6
20°-30°	1487.0	9.5
30°-40°	2628.5	16.8
40°-50°	3491.7	22.3
50°-60°	3311.6	21.1
60°-70°	2526.5	16.1
70°-80°	1224.8	7.8
80°-90°	68.9	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°	15671.0	100.0
0°-180°	15671.0	100.0

Coefficient of Utilization



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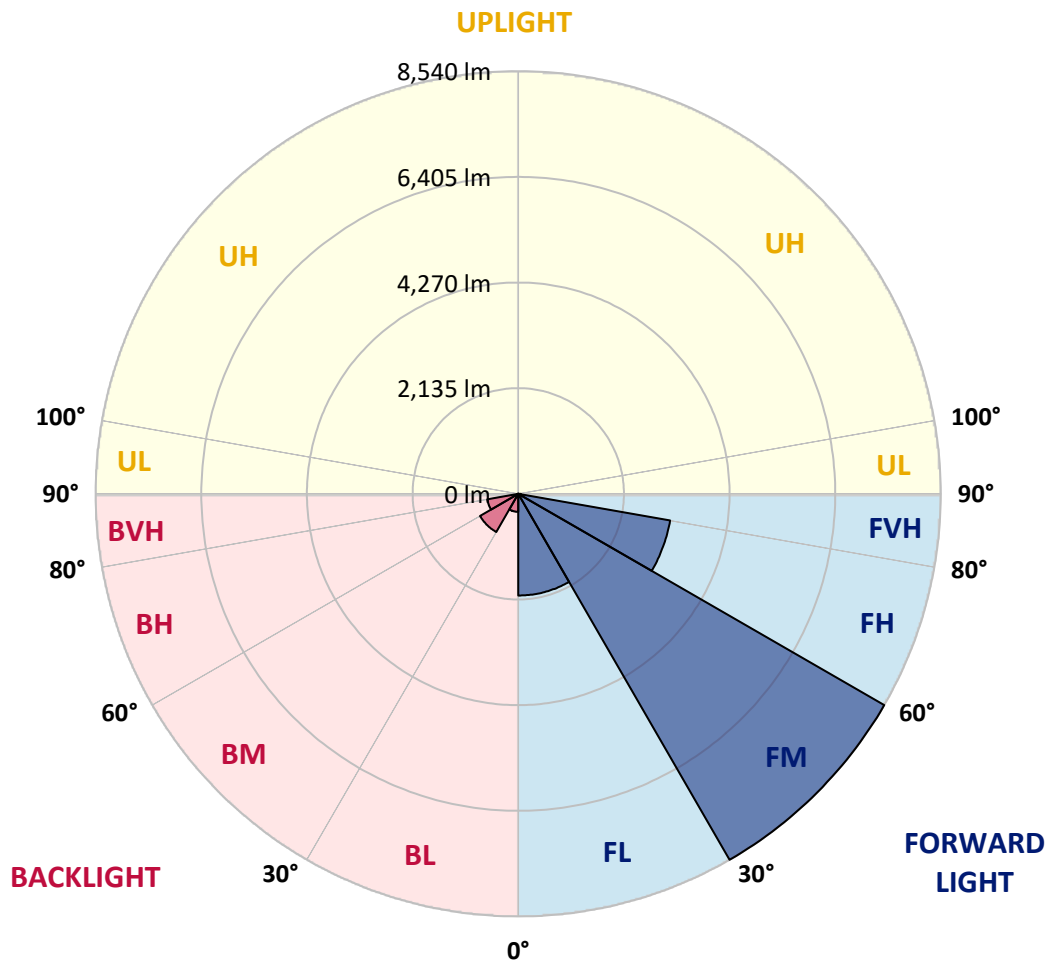
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.2	13.1			
FM	(30°-60°)	8539.9	54.5			
FH	(60°-80°)	3115.3	19.9			G2/5000
FVH	(80°-90°)	54.6	0.3			G1/100
BL	(0°-30°)	363.7	2.3	B1/500		
BM	(30°-60°)	891.8	5.7	B1/1000		
BH	(60°-80°)	636.0	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.3	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°	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5
2.5°	2566.9	2521.8	2573.3	2566.9	2521.8	2492.9	2402.8	2373.9	2267.7	2190.5	2123.0
5°	3094.4	3049.4	3094.4	3081.5	3017.2	2946.4	2798.5	2702.0	2512.2	2344.9	2193.7
7.5°	3531.9	3531.9	3551.2	3554.4	3477.2	3367.8	3184.5	3039.7	2772.7	2515.4	2274.2
10°	4004.7	4007.9	4049.8	4020.8	3917.9	3769.9	3538.3	3355.0	3033.3	2695.5	2351.4
12.5°	4509.7	4512.9	4525.8	4512.9	4390.7	4200.9	3921.1	3679.8	3309.9	2901.4	2457.5
15°	5014.7	5018.0	5034.0	5011.5	4876.4	4654.5	4336.0	4040.1	3602.6	3133.0	2586.2
17.5°	5487.6	5494.0	5506.9	5477.9	5336.4	5072.6	4747.8	4390.7	3914.7	3380.7	2730.9
20°	5912.2	5918.6	5928.3	5889.7	5748.1	5484.4	5133.8	4760.6	4233.1	3634.8	2888.5
22.5°	6340.0	6346.4	6362.5	6311.0	6153.4	5851.1	5506.9	5120.9	4570.8	3914.7	3071.9
25°	6886.8	6893.3	6906.1	6832.1	6616.6	6262.8	5899.3	5503.7	4937.5	4229.9	3297.1
27.5°	7687.8	7681.3	7681.3	7546.2	7176.3	6716.3	6295.0	5892.9	5333.2	4567.6	3544.7
30°	8678.5	8662.4	8652.8	8469.4	7941.9	7227.8	6700.3	6256.4	5712.8	4924.7	3811.7
32.5°	9566.3	9566.3	9547.0	9354.0	8794.3	7916.2	7131.3	6610.2	6079.5	5284.9	4088.4
35°	10090.6	10113.1	10103.5	9958.7	9550.2	8656.0	7713.5	7034.8	6465.4	5661.3	4419.7
37.5°	10161.4	10206.4	10216.1	10129.2	9913.7	9260.7	8360.0	7494.8	6890.0	6066.6	4741.3
40°	9875.1	9971.6	9971.6	9958.7	9881.5	9547.0	8903.7	8028.7	7327.5	6488.0	5066.2
42.5°	9434.4	9534.1	9521.3	9569.5	9550.2	9479.4	9209.2	8527.3	7765.0	6922.2	5362.1
45°	8858.6	8961.6	8935.8	9022.7	9061.3	9138.5	9177.1	8874.7	8196.0	7395.1	5693.5
47.5°	7935.5	8109.2	8147.8	8302.1	8463.0	8704.2	8887.6	9000.2	8598.1	7903.3	6053.7
50°	6571.6	6816.1	6893.3	7218.1	7658.8	8157.4	8453.3	8845.8	8881.1	8424.4	6442.9
52.5°	4705.9	4989.0	5108.0	5642.0	6549.1	7417.6	7951.5	8504.8	8990.5	8923.0	6864.3
55°	3042.9	3284.2	3400.0	3901.8	5108.0	6471.9	7359.7	8064.1	8929.4	9379.7	7346.8
57.5°	1875.3	2013.6	2090.8	2521.8	3631.6	5259.2	6584.5	7658.8	8742.8	9775.4	7848.6
60°	1264.1	1344.6	1383.2	1585.8	2467.2	3930.7	5519.8	7234.2	8498.4	10042.4	8305.4
62.5°	839.5	865.3	903.9	1029.3	1627.6	2759.9	4239.5	6475.1	8315.0	10058.4	8643.1
65°	649.8	662.6	678.7	733.4	1003.6	1930.0	2981.8	5246.3	8041.6	9717.5	8749.3
67.5°	511.4	524.3	543.6	572.6	727.0	1309.2	2029.7	3843.9	7481.9	9183.5	8575.6
70°	402.1	411.7	424.6	450.3	566.1	948.9	1341.3	2554.0	6352.9	8675.3	8028.7
72.5°	318.4	328.1	341.0	366.7	460.0	694.8	920.0	1592.2	4898.9	8054.5	6976.9
75°	250.9	257.3	267.0	292.7	369.9	540.4	624.0	952.1	3329.2	6919.0	5436.1
77.5°	125.4	154.4	176.9	202.6	270.2	373.1	414.9	527.5	1405.7	3551.2	2592.6
80°	74.0	90.1	96.5	112.6	176.9	225.2	225.2	212.3	443.9	1363.9	1058.3
82.5°	41.8	57.9	61.1	64.3	106.1	128.7	102.9	77.2	90.1	456.8	308.8
85°	12.9	19.3	22.5	25.7	35.4	38.6	35.4	32.2	25.7	45.0	28.9
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	6.4	6.4	9.6	9.6	9.6
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°	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5	2071.5
2.5°	2084.4	2042.6	1962.2	1888.2	1817.4	1765.9	1717.7	1672.7	1640.5	1614.8	1611.5
5°	2113.3	2029.7	1875.3	1730.6	1598.7	1489.3	1396.0	1322.0	1267.4	1228.8	1225.5
7.5°	2151.9	2023.3	1788.5	1572.9	1376.7	1219.1	1084.0	984.3	913.5	884.6	862.1
10°	2184.1	2016.8	1701.6	1415.3	1158.0	958.6	797.7	698.0	646.5	627.2	617.6
12.5°	2238.8	2023.3	1627.6	1270.6	968.2	733.4	611.2	556.5	534.0	517.9	514.7
15°	2319.2	2052.2	1556.9	1129.0	775.2	591.9	521.1	485.7	463.2	460.0	456.8
17.5°	2399.6	2077.9	1492.5	984.3	643.3	514.7	466.4	437.5	421.4	418.2	418.2
20°	2492.9	2110.1	1421.8	846.0	550.0	463.2	424.6	402.1	382.8	379.6	379.6
22.5°	2602.3	2155.1	1354.2	723.7	488.9	424.6	392.4	366.7	350.6	347.4	347.4
25°	2750.2	2222.7	1299.5	633.7	447.1	392.4	363.5	341.0	328.1	321.7	321.7
27.5°	2914.3	2316.0	1260.9	579.0	418.2	366.7	337.7	318.4	305.6	299.1	299.1
30°	3097.6	2418.9	1235.2	556.5	402.1	344.2	318.4	299.1	283.1	279.8	279.8
32.5°	3300.3	2537.9	1219.1	559.7	398.9	328.1	299.1	279.8	267.0	260.5	260.5
35°	3525.4	2669.8	1209.5	579.0	405.3	315.2	283.1	263.8	250.9	244.5	244.5
37.5°	3776.3	2824.2	1209.5	598.3	421.4	312.0	267.0	247.7	238.0	231.6	231.6
40°	4011.2	2988.3	1222.3	620.8	437.5	312.0	254.1	238.0	225.2	218.7	218.7
42.5°	4194.5	3081.5	1232.0	643.3	447.1	308.8	241.2	225.2	215.5	209.1	209.1
45°	4403.6	3181.3	1212.7	653.0	447.1	302.4	231.6	215.5	205.9	199.4	199.4
47.5°	4635.2	3303.5	1209.5	659.4	437.5	289.5	221.9	205.9	199.4	193.0	193.0
50°	4870.0	3438.6	1215.9	656.2	424.6	270.2	209.1	199.4	189.8	183.3	183.3
52.5°	5137.0	3580.1	1228.8	649.8	395.6	247.7	199.4	189.8	180.1	173.7	170.5
55°	5432.9	3734.5	1254.5	636.9	357.0	225.2	189.8	180.1	167.3	160.8	157.6
57.5°	5773.9	3924.3	1283.4	611.2	315.2	205.9	180.1	167.3	148.0	138.3	135.1
60°	6098.8	4139.8	1315.6	550.0	273.4	186.6	170.5	151.2	131.9	125.4	122.2
62.5°	6404.3	4352.1	1331.7	440.7	231.6	170.5	160.8	138.3	119.0	112.6	109.4
65°	6600.5	4583.7	1296.3	299.1	189.8	157.6	148.0	128.7	109.4	99.7	99.7
67.5°	6613.4	4693.1	1174.1	196.2	154.4	141.5	135.1	115.8	96.5	90.1	86.8
70°	6288.5	4529.0	897.4	154.4	128.7	122.2	122.2	102.9	83.6	77.2	74.0
72.5°	5542.3	4011.2	572.6	125.4	109.4	102.9	102.9	86.8	74.0	64.3	61.1
75°	4374.6	3094.4	305.6	102.9	90.1	86.8	80.4	70.8	61.1	54.7	51.5
77.5°	2010.4	1363.9	141.5	74.0	67.5	67.5	61.1	51.5	48.2	41.8	41.8
80°	794.5	463.2	70.8	48.2	45.0	45.0	45.0	35.4	35.4	28.9	25.7
82.5°	218.7	96.5	35.4	28.9	28.9	28.9	25.7	22.5	22.5	19.3	19.3
85°	22.5	16.1	16.1	16.1	16.1	12.9	12.9	9.6	6.4	6.4	6.4
87.5°	9.6	9.6	9.6	9.6	9.6	6.4	3.2	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)