

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: P836256

Luminaire Tested: **ARCH3-160-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15347 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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

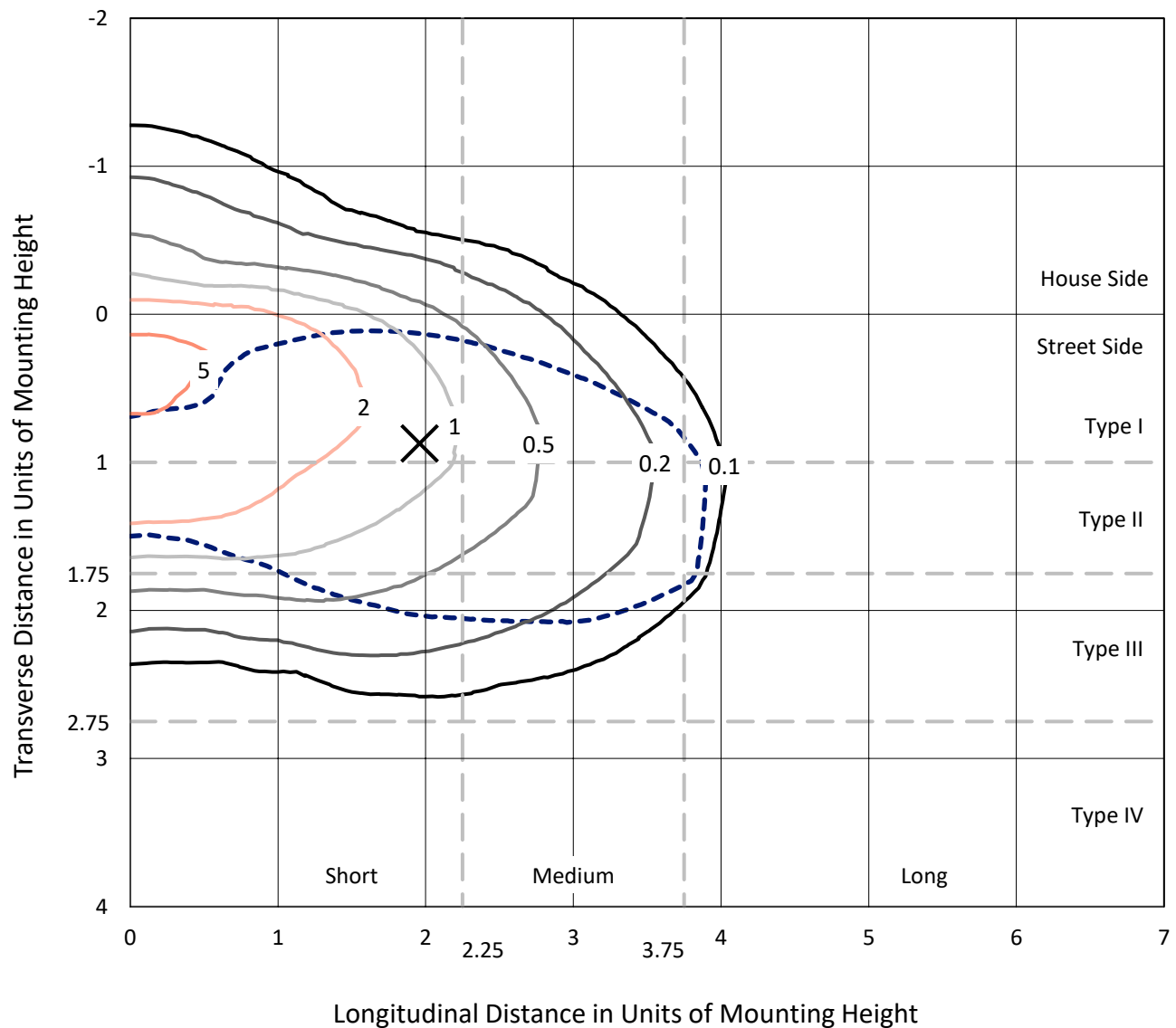


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Iso-Footcandle Lines of Horizontal Illumination

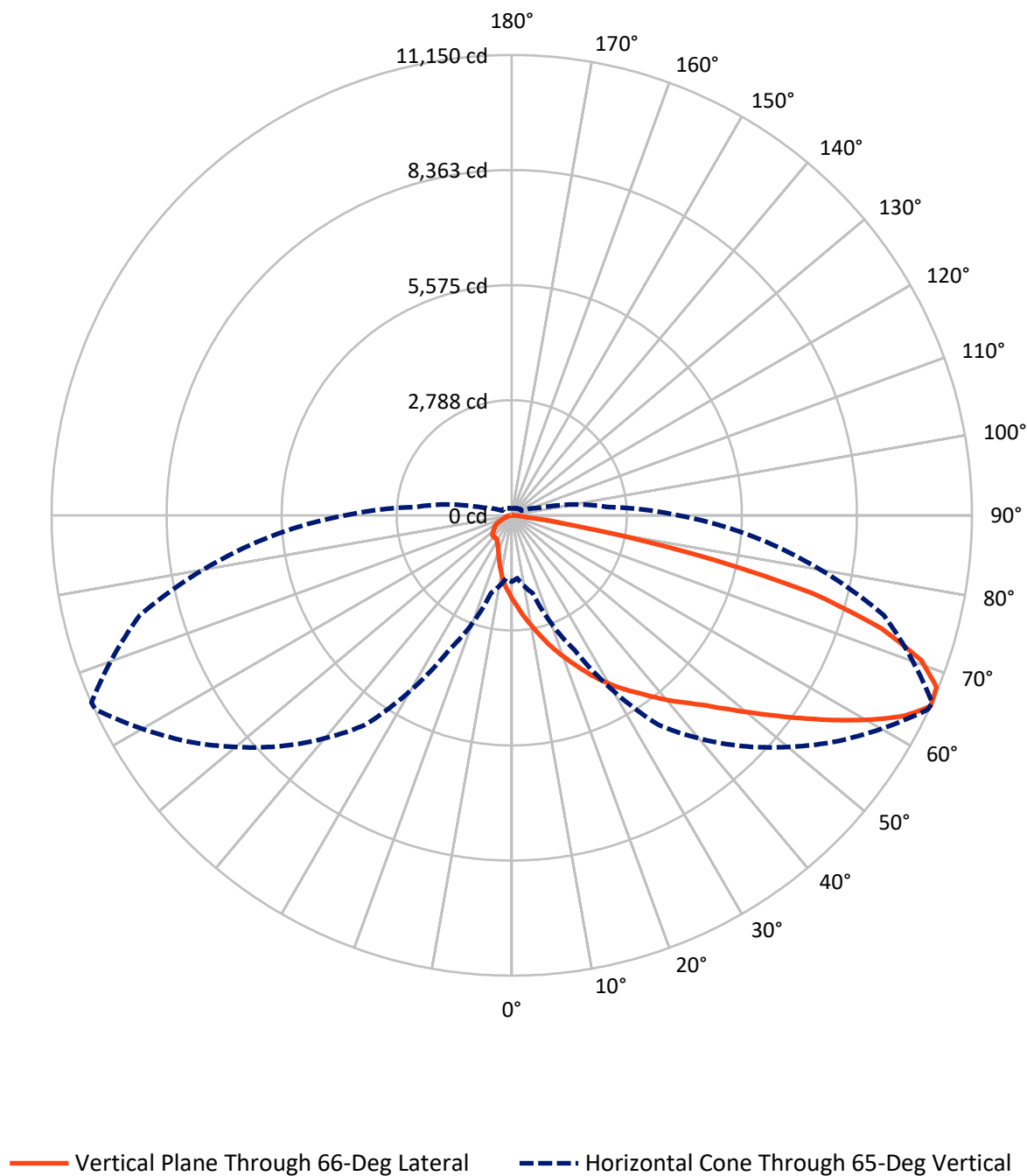
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1623.3	0.0	1623.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13723.7	0.0	13723.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	15347.0	0.0	15347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.3
10°-20°	653.4	4.3
20°-30°	1182.2	7.7
30°-40°	1848.6	12.0
40°-50°	2804.3	18.3
50°-60°	3563.0	23.2
60°-70°	3329.2	21.7
70°-80°	1654.6	10.8
80°-90°	111.2	0.7
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°	15347.0	100.0
0°-180°	15347.0	100.0

Coefficient of Utilization



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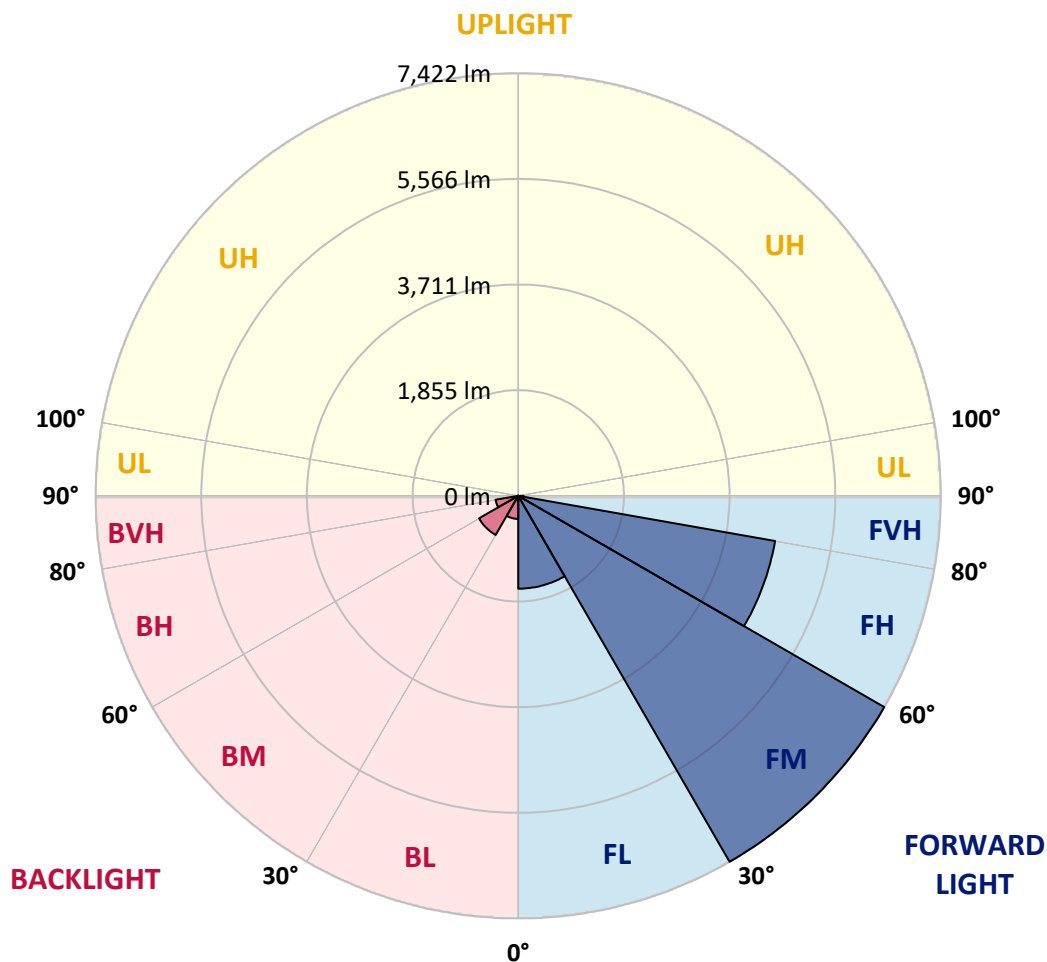
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1630.6	10.6			
FM	(30°-60°)	7422.0	48.4			
FH	(60°-80°)	4579.6	29.8			G2/5000
FVH	(80°-90°)	91.5	0.6			G1/100
BL	(0°-30°)	405.4	2.6	B1/500		
BM	(30°-60°)	794.0	5.2	B1/1000		
BH	(60°-80°)	404.3	2.6	B1/500		G1/500
BVH	(80°-90°)	19.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2372.3	2391.6	2401.3	2404.5	2330.4	2298.3	2266.1	2192.0	2175.9	2134.1	2079.4
5°	2790.7	2816.5	2810.1	2797.2	2707.0	2604.0	2520.4	2381.9	2359.4	2259.6	2137.3
7.5°	3202.8	3225.3	3218.8	3170.6	3070.8	2925.9	2787.5	2584.7	2552.5	2391.6	2195.3
10°	3547.2	3566.5	3563.3	3515.0	3395.9	3218.8	3051.5	2781.1	2742.5	2513.9	2243.5
12.5°	3830.4	3856.2	3853.0	3820.8	3714.5	3521.4	3331.5	3006.4	2958.1	2662.0	2311.1
15°	4052.5	4084.7	4084.7	4071.8	3997.8	3836.9	3621.2	3254.3	3196.3	2832.6	2394.8
17.5°	4187.7	4213.5	4236.0	4258.5	4207.0	4084.7	3888.4	3502.1	3440.9	3000.0	2481.7
20°	4258.5	4284.3	4300.4	4348.7	4358.3	4297.2	4142.7	3746.7	3682.4	3189.9	2581.5
22.5°	4374.4	4396.9	4400.2	4442.0	4461.3	4477.4	4380.8	3988.1	3936.6	3399.1	2694.2
25°	4567.5	4593.3	4583.6	4602.9	4606.2	4625.5	4615.8	4265.0	4213.5	3637.3	2829.4
27.5°	4815.4	4847.6	4841.1	4821.8	4792.9	4776.8	4818.6	4545.0	4496.7	3875.5	2967.8
30°	5082.6	5121.2	5111.5	5072.9	4995.6	4928.1	4986.0	4809.0	4763.9	4120.1	3122.3
32.5°	5352.9	5398.0	5394.8	5330.4	5198.4	5082.6	5169.5	5056.8	5024.6	4384.1	3289.7
35°	5530.0	5587.9	5581.5	5542.9	5372.3	5272.5	5378.7	5311.1	5288.6	4706.0	3531.1
37.5°	5816.5	5877.6	5822.9	5726.3	5530.0	5478.5	5607.2	5597.6	5581.5	5047.1	3785.4
40°	6511.7	6601.9	6457.0	6061.1	5739.2	5694.1	5877.6	5916.2	5900.1	5385.1	4013.9
42.5°	7239.2	7374.4	7149.1	6601.9	6119.0	5954.9	6173.7	6228.5	6209.2	5674.8	4219.9
45°	7680.2	7738.1	7512.8	7087.9	6791.8	6270.3	6489.2	6579.3	6563.2	6022.5	4483.9
47.5°	8040.7	8018.1	7760.6	7474.2	7528.9	6714.5	6846.5	7023.5	7010.6	6405.5	4773.5
50°	8117.9	8066.4	7963.4	7783.2	7928.0	7165.1	7223.1	7528.9	7516.0	6830.4	5066.5
52.5°	7573.9	7506.3	7786.4	7937.7	7889.4	7493.5	7638.3	8082.5	8076.1	7290.7	5346.5
55°	6215.6	6160.9	6914.1	7696.3	7847.5	7725.2	8098.6	8658.7	8694.1	7779.9	5600.8
57.5°	4889.4	4831.5	5571.8	7091.1	7693.0	7937.7	8636.2	9318.6	9363.6	8311.1	5842.2
60°	3898.0	3811.1	4377.6	6138.3	7403.3	8101.8	9154.4	10042.8	10049.2	8797.1	5990.3
62.5°	2649.1	2552.5	3180.2	4931.3	6917.3	8127.6	9553.5	10667.3	10693.0	9160.8	6016.0
65°	1609.4	1529.0	1953.8	3601.9	6199.5	7908.7	9560.0	11127.5	11150.1	9328.2	5861.5
67.5°	933.5	901.3	1116.9	2243.5	5008.5	7319.7	9157.6	11056.7	11098.6	9257.4	5510.7
70°	544.0	540.8	621.2	1110.5	3534.3	6151.2	8259.6	10461.2	10522.4	8887.2	4973.1
72.5°	399.1	405.6	437.8	595.5	2047.2	4429.1	6994.6	9263.8	9357.2	8163.0	4207.0
75°	315.4	318.7	347.6	405.6	1075.1	2504.3	5240.3	7435.5	7509.6	6872.2	3286.4
77.5°	235.0	241.4	263.9	286.5	498.9	1149.1	2948.5	4580.4	4458.1	3772.5	1586.9
80°	170.6	186.7	196.3	206.0	263.9	444.2	885.2	1596.5	1583.7	1648.0	750.0
82.5°	109.4	122.3	132.0	138.4	157.7	212.4	263.9	357.3	386.3	640.6	299.4
85°	48.3	54.7	61.2	74.0	67.6	74.0	109.4	70.8	61.2	96.6	54.7
87.5°	0.0	0.0	9.7	16.1	12.9	6.4	19.3	12.9	9.7	9.7	9.7
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°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2050.4	2015.0	1941.0	1870.1	1828.3	1773.6	1725.3	1680.2	1677.0	1664.1	1641.6
5°	2076.2	2008.6	1870.1	1738.2	1638.4	1532.2	1442.0	1371.2	1345.5	1326.2	1300.4
7.5°	2101.9	1995.7	1789.7	1596.5	1438.8	1290.8	1184.5	1088.0	1059.0	1033.2	1017.2
10°	2111.6	1973.2	1696.3	1438.8	1232.8	1075.1	962.4	891.6	865.9	853.0	843.3
12.5°	2140.5	1960.3	1609.4	1290.8	1052.6	907.7	827.2	785.4	775.7	766.1	756.4
15°	2179.2	1960.3	1522.5	1145.9	910.9	795.1	746.8	717.8	711.4	708.1	701.7
17.5°	2221.0	1960.3	1438.8	1023.6	807.9	721.0	685.6	669.5	666.3	663.1	659.9
20°	2278.9	1963.5	1348.7	917.4	733.9	666.3	637.3	618.0	614.8	611.6	611.6
22.5°	2336.9	1969.9	1261.8	836.9	685.6	624.5	589.0	569.7	563.3	563.3	563.3
25°	2410.9	1989.2	1181.3	769.3	643.8	585.8	540.8	524.7	521.5	521.5	518.2
27.5°	2497.8	2011.8	1110.5	717.8	601.9	540.8	495.7	479.6	473.2	473.2	470.0
30°	2591.2	2034.3	1052.6	679.2	560.1	495.7	453.9	434.5	428.1	431.3	428.1
32.5°	2694.2	2066.5	1007.5	653.4	521.5	457.1	418.4	395.9	392.7	392.7	389.5
35°	2868.0	2156.6	1001.1	640.6	489.3	428.1	389.5	366.9	363.7	363.7	360.5
37.5°	3054.7	2259.6	1030.0	634.1	463.5	402.4	366.9	344.4	341.2	341.2	341.2
40°	3212.4	2336.9	1062.2	634.1	447.4	379.8	347.6	328.3	328.3	328.3	328.3
42.5°	3318.6	2343.3	1055.8	634.1	434.5	363.7	334.8	315.4	315.4	318.7	315.4
45°	3476.4	2375.5	1030.0	624.5	424.9	350.9	321.9	305.8	302.6	305.8	305.8
47.5°	3663.0	2433.4	1004.3	585.8	421.7	338.0	312.2	292.9	289.7	292.9	289.7
50°	3840.1	2484.9	991.4	534.3	415.2	325.1	299.4	280.0	276.8	280.0	276.8
52.5°	3988.1	2507.5	968.9	498.9	399.1	312.2	286.5	267.2	260.7	263.9	263.9
55°	4107.2	2501.0	936.7	470.0	370.2	299.4	270.4	254.3	244.6	244.6	241.4
57.5°	4216.7	2504.3	907.7	441.0	338.0	280.0	257.5	238.2	225.3	222.1	218.9
60°	4258.5	2488.2	856.2	402.4	305.8	263.9	241.4	218.9	206.0	202.8	199.6
62.5°	4200.6	2430.2	788.6	334.8	276.8	244.6	225.3	202.8	189.9	186.7	183.5
65°	4036.4	2320.8	685.6	263.9	251.1	222.1	206.0	189.9	173.8	167.4	164.2
67.5°	3756.4	2163.1	556.9	212.4	222.1	202.8	193.1	173.8	154.5	148.1	144.8
70°	3357.3	1953.8	418.4	180.3	196.3	180.3	173.8	154.5	138.4	132.0	128.8
72.5°	2797.2	1615.9	292.9	154.5	170.6	157.7	151.3	138.4	122.3	112.7	112.7
75°	2114.8	1158.8	193.1	132.0	141.6	135.2	125.5	115.9	106.2	99.8	96.6
77.5°	910.9	450.6	119.1	99.8	115.9	112.7	99.8	93.3	90.1	83.7	83.7
80°	392.7	183.5	74.0	74.0	83.7	80.5	77.3	70.8	70.8	67.6	64.4
82.5°	144.8	74.0	45.1	54.7	61.2	54.7	54.7	54.7	54.7	51.5	51.5
85°	35.4	22.5	22.5	32.2	35.4	32.2	35.4	32.2	32.2	32.2	29.0
87.5°	9.7	9.7	12.9	12.9	12.9	12.9	12.9	9.7	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)