

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: P835847

Luminaire Tested: **ARCH3-100-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835847
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: ARCH3-100-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 805mA 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: 11679 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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



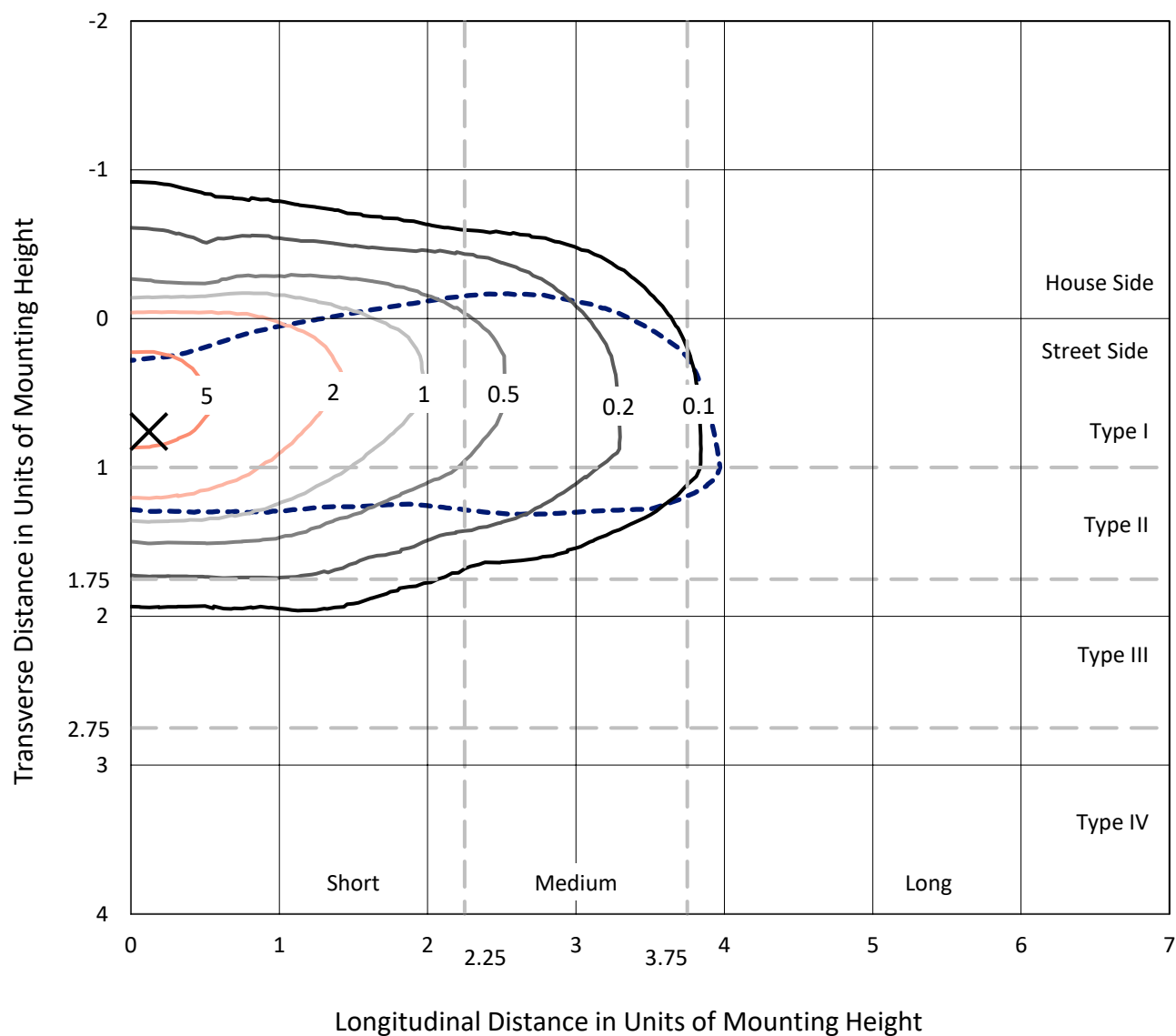
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

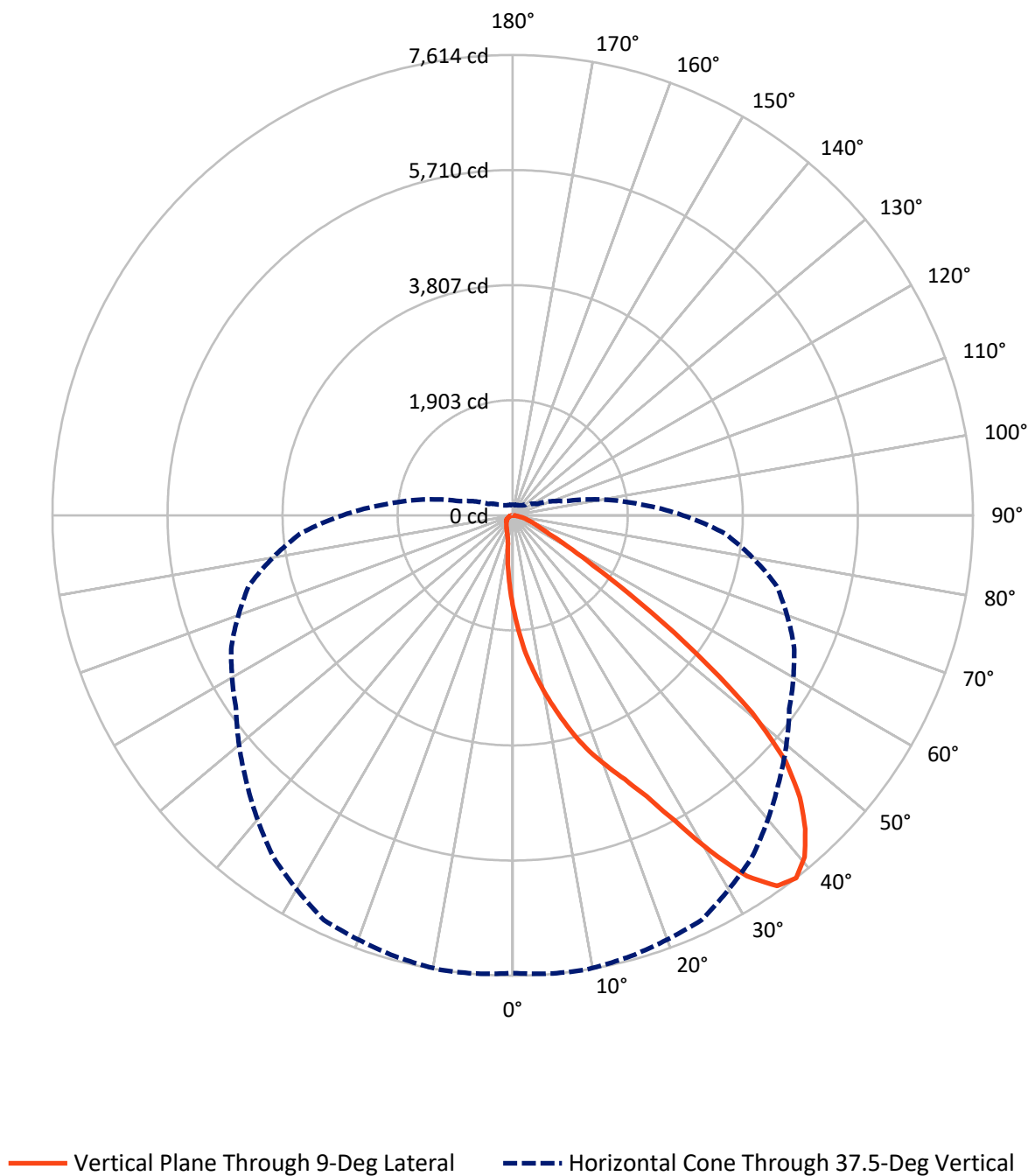


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

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	1420.4	0.0	1420.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10258.6	0.0	10258.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	11679.0	0.0	11679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.3
10°-20°	539.3	4.6
20°-30°	1108.2	9.5
30°-40°	1958.9	16.8
40°-50°	2602.2	22.3
50°-60°	2468.0	21.1
60°-70°	1882.9	16.1
70°-80°	912.8	7.8
80°-90°	51.4	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°	11679.0	100.0
0°-180°	11679.0	100.0

Coefficient of Utilization



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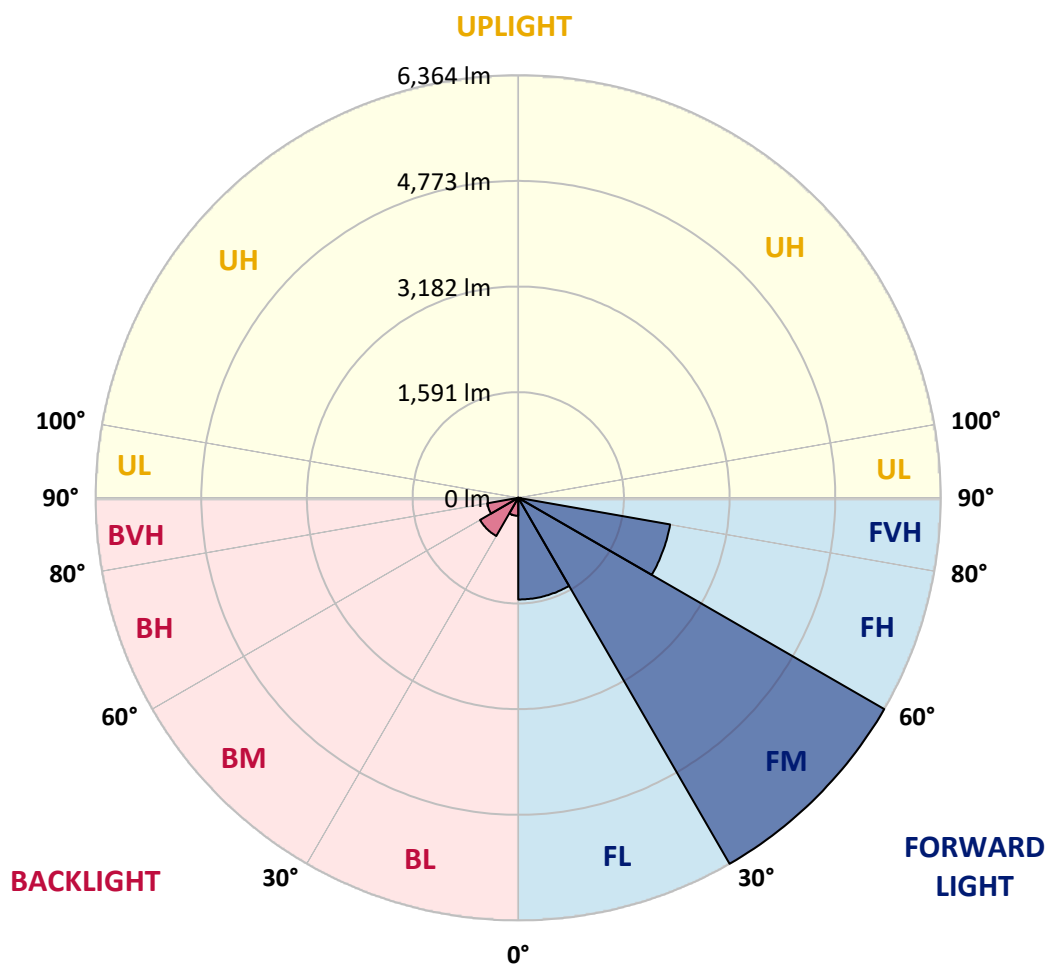
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.7	13.1			
FM	(30°-60°)	6364.5	54.5			
FH	(60°-80°)	2321.7	19.9			G2/5000
FVH	(80°-90°)	40.7	0.3			G1/100
BL	(0°-30°)	271.1	2.3	B1/500		
BM	(30°-60°)	664.6	5.7	B1/1000		
BH	(60°-80°)	474.0	4.1	B1/500		G1/500
BVH	(80°-90°)	10.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1913.0	1879.4	1917.8	1913.0	1879.4	1857.9	1790.7	1769.2	1690.1	1632.5	1582.2
5°	2306.1	2272.6	2306.1	2296.6	2248.6	2195.9	2085.6	2013.7	1872.2	1747.6	1634.9
7.5°	2632.2	2632.2	2646.6	2649.0	2591.4	2509.9	2373.3	2265.4	2066.4	1874.6	1694.8
10°	2984.6	2987.0	3018.1	2996.5	2919.8	2809.6	2637.0	2500.3	2260.6	2008.9	1752.4
12.5°	3360.9	3363.3	3372.9	3363.3	3272.2	3130.8	2922.2	2742.4	2466.8	2162.3	1831.5
15°	3737.3	3739.7	3751.7	3734.9	3634.2	3468.8	3231.5	3010.9	2684.9	2334.9	1927.4
17.5°	4089.7	4094.5	4104.1	4082.5	3977.0	3780.4	3538.3	3272.2	2917.4	2519.5	2035.3
20°	4406.1	4410.9	4418.1	4389.3	4283.9	4087.3	3826.0	3547.9	3154.8	2708.9	2152.7
22.5°	4725.0	4729.8	4741.7	4703.4	4585.9	4360.6	4104.1	3816.4	3406.5	2917.4	2289.4
25°	5132.5	5137.3	5146.9	5091.7	4931.1	4667.4	4396.5	4101.7	3679.8	3152.4	2457.2
27.5°	5729.4	5724.6	5724.6	5623.9	5348.2	5005.4	4691.4	4391.7	3974.6	3404.1	2641.8
30°	6467.8	6455.8	6448.6	6311.9	5918.8	5386.6	4993.5	4662.6	4257.5	3670.2	2840.7
32.5°	7129.4	7129.4	7115.0	6971.2	6554.1	5899.6	5314.7	4926.3	4530.8	3938.7	3046.9
35°	7520.1	7536.9	7529.7	7421.9	7117.4	6451.0	5748.6	5242.8	4818.5	4219.1	3293.8
37.5°	7572.9	7606.4	7613.6	7548.9	7388.3	6901.7	6230.4	5585.6	5134.9	4521.2	3533.5
40°	7359.5	7431.4	7431.4	7421.9	7364.3	7115.0	6635.6	5983.5	5460.9	4835.2	3775.7
42.5°	7031.1	7105.4	7095.8	7131.8	7117.4	7064.7	6863.3	6355.1	5786.9	5158.9	3996.2
45°	6602.0	6678.7	6659.5	6724.3	6753.0	6810.6	6839.3	6614.0	6108.2	5511.3	4243.1
47.5°	5914.0	6043.4	6072.2	6187.3	6307.1	6486.9	6623.6	6707.5	6407.8	5890.0	4511.6
50°	4897.6	5079.8	5137.3	5379.4	5707.8	6079.4	6299.9	6592.4	6618.8	6278.4	4801.7
52.5°	3507.2	3718.1	3806.8	4204.8	4880.8	5528.0	5926.0	6338.3	6700.3	6649.9	5115.7
55°	2267.8	2447.6	2533.9	2907.9	3806.8	4823.2	5484.9	6009.9	6654.7	6990.4	5475.3
57.5°	1397.6	1500.7	1558.2	1879.4	2706.5	3919.5	4907.2	5707.8	6515.7	7285.2	5849.3
60°	942.1	1002.0	1030.8	1181.8	1838.7	2929.4	4113.7	5391.4	6333.5	7484.2	6189.7
62.5°	625.7	644.9	673.6	767.1	1213.0	2056.8	3159.6	4825.6	6196.9	7496.2	6441.4
65°	484.2	493.8	505.8	546.6	747.9	1438.3	2222.2	3909.9	5993.1	7242.1	6520.5
67.5°	381.2	390.8	405.1	426.7	541.8	975.7	1512.7	2864.7	5576.0	6844.1	6391.0
70°	299.7	306.8	316.4	335.6	421.9	707.2	999.6	1903.4	4734.5	6465.4	5983.5
72.5°	237.3	244.5	254.1	273.3	342.8	517.8	685.6	1186.6	3651.0	6002.7	5199.6
75°	187.0	191.8	199.0	218.1	275.7	402.7	465.1	709.6	2481.1	5156.5	4051.3
77.5°	93.5	115.1	131.8	151.0	201.4	278.1	309.2	393.1	1047.6	2646.6	1932.2
80°	55.1	67.1	71.9	83.9	131.8	167.8	167.8	158.2	330.8	1016.4	788.7
82.5°	31.2	43.2	45.5	47.9	79.1	95.9	76.7	57.5	67.1	340.4	230.1
85°	9.6	14.4	16.8	19.2	26.4	28.8	26.4	24.0	19.2	33.6	21.6
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	4.8	4.8	7.2	7.2	7.2
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°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1553.4	1522.2	1462.3	1407.2	1354.4	1316.1	1280.1	1246.6	1222.6	1203.4	1201.0
5°	1575.0	1512.7	1397.6	1289.7	1191.4	1109.9	1040.4	985.3	944.5	915.7	913.3
7.5°	1603.8	1507.9	1332.9	1172.3	1026.0	908.6	807.9	733.6	680.8	659.2	642.5
10°	1627.7	1503.1	1268.1	1054.8	863.0	714.4	594.5	520.2	481.8	467.5	460.3
12.5°	1668.5	1507.9	1213.0	946.9	721.6	546.6	455.5	414.7	397.9	386.0	383.6
15°	1728.4	1529.4	1160.3	841.4	577.7	441.1	388.4	362.0	345.2	342.8	340.4
17.5°	1788.3	1548.6	1112.3	733.6	479.4	383.6	347.6	326.0	314.0	311.6	311.6
20°	1857.9	1572.6	1059.6	630.5	409.9	345.2	316.4	299.7	285.3	282.9	282.9
22.5°	1939.4	1606.2	1009.2	539.4	364.4	316.4	292.5	273.3	261.3	258.9	258.9
25°	2049.6	1656.5	968.5	472.3	333.2	292.5	270.9	254.1	244.5	239.7	239.7
27.5°	2171.9	1726.0	939.7	431.5	311.6	273.3	251.7	237.3	227.7	222.9	222.9
30°	2308.5	1802.7	920.5	414.7	299.7	256.5	237.3	222.9	211.0	208.6	208.6
32.5°	2459.6	1891.4	908.6	417.1	297.3	244.5	222.9	208.6	199.0	194.2	194.2
35°	2627.4	1989.7	901.4	431.5	302.1	234.9	211.0	196.6	187.0	182.2	182.2
37.5°	2814.4	2104.8	901.4	445.9	314.0	232.5	199.0	184.6	177.4	172.6	172.6
40°	2989.4	2227.0	911.0	462.7	326.0	232.5	189.4	177.4	167.8	163.0	163.0
42.5°	3126.0	2296.6	918.1	479.4	333.2	230.1	179.8	167.8	160.6	155.8	155.8
45°	3281.8	2370.9	903.8	486.6	333.2	225.3	172.6	160.6	153.4	148.6	148.6
47.5°	3454.4	2462.0	901.4	491.4	326.0	215.8	165.4	153.4	148.6	143.8	143.8
50°	3629.4	2562.6	906.2	489.0	316.4	201.4	155.8	148.6	141.4	136.6	136.6
52.5°	3828.4	2668.1	915.7	484.2	294.9	184.6	148.6	141.4	134.2	129.5	127.1
55°	4048.9	2783.2	934.9	474.7	266.1	167.8	141.4	134.2	124.7	119.9	117.5
57.5°	4303.0	2924.6	956.5	455.5	234.9	153.4	134.2	124.7	110.3	103.1	100.7
60°	4545.2	3085.2	980.5	409.9	203.8	139.0	127.1	112.7	98.3	93.5	91.1
62.5°	4772.9	3243.5	992.5	328.4	172.6	127.1	119.9	103.1	88.7	83.9	81.5
65°	4919.1	3416.1	966.1	222.9	141.4	117.5	110.3	95.9	81.5	74.3	74.3
67.5°	4928.7	3497.6	875.0	146.2	115.1	105.5	100.7	86.3	71.9	67.1	64.7
70°	4686.6	3375.3	668.8	115.1	95.9	91.1	91.1	76.7	62.3	57.5	55.1
72.5°	4130.4	2989.4	426.7	93.5	81.5	76.7	76.7	64.7	55.1	47.9	45.5
75°	3260.2	2306.1	227.7	76.7	67.1	64.7	59.9	52.7	45.5	40.8	38.4
77.5°	1498.3	1016.4	105.5	55.1	50.3	50.3	45.5	38.4	36.0	31.2	31.2
80°	592.1	345.2	52.7	36.0	33.6	33.6	33.6	26.4	26.4	21.6	19.2
82.5°	163.0	71.9	26.4	21.6	21.6	21.6	19.2	16.8	16.8	14.4	14.4
85°	16.8	12.0	12.0	12.0	12.0	9.6	9.6	7.2	4.8	4.8	4.8
87.5°	7.2	7.2	7.2	7.2	7.2	4.8	2.4	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)