

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: P836391

Luminaire Tested: **ARCH3-180-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836391
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: ARCH3-180-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15921 lumens
Efficiency: N/A
Efficacy: 88.2 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): 180.5
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

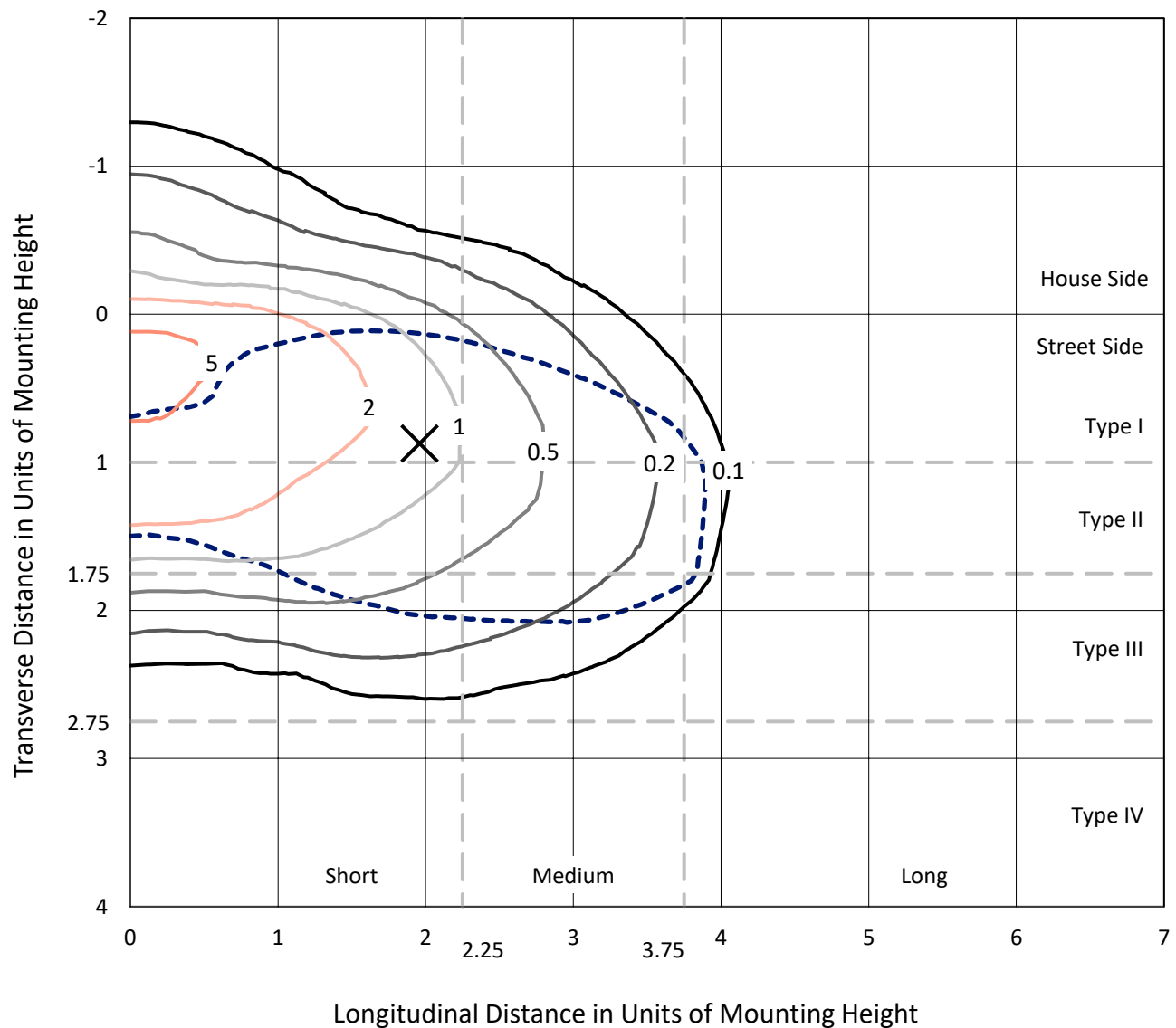


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Iso-Footcandle Lines of Horizontal Illumination

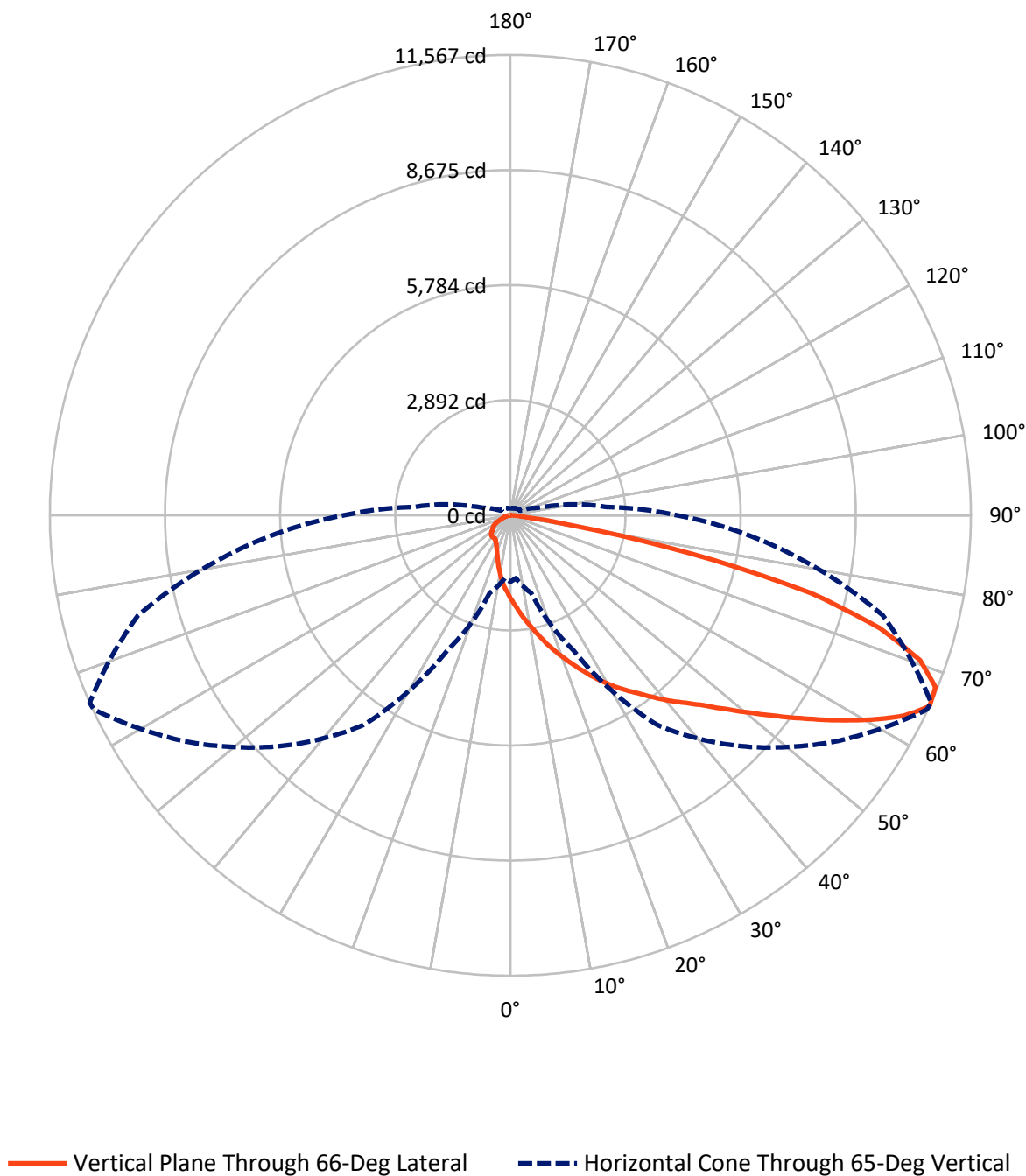
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1684.0	0.0	1684.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14237.0	0.0	14237.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	15921.0	0.0	15921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.3
10°-20°	677.8	4.3
20°-30°	1226.4	7.7
30°-40°	1917.8	12.0
40°-50°	2909.2	18.3
50°-60°	3696.3	23.2
60°-70°	3453.8	21.7
70°-80°	1716.5	10.8
80°-90°	115.3	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°	15921.0	100.0
0°-180°	15921.0	100.0

Coefficient of Utilization



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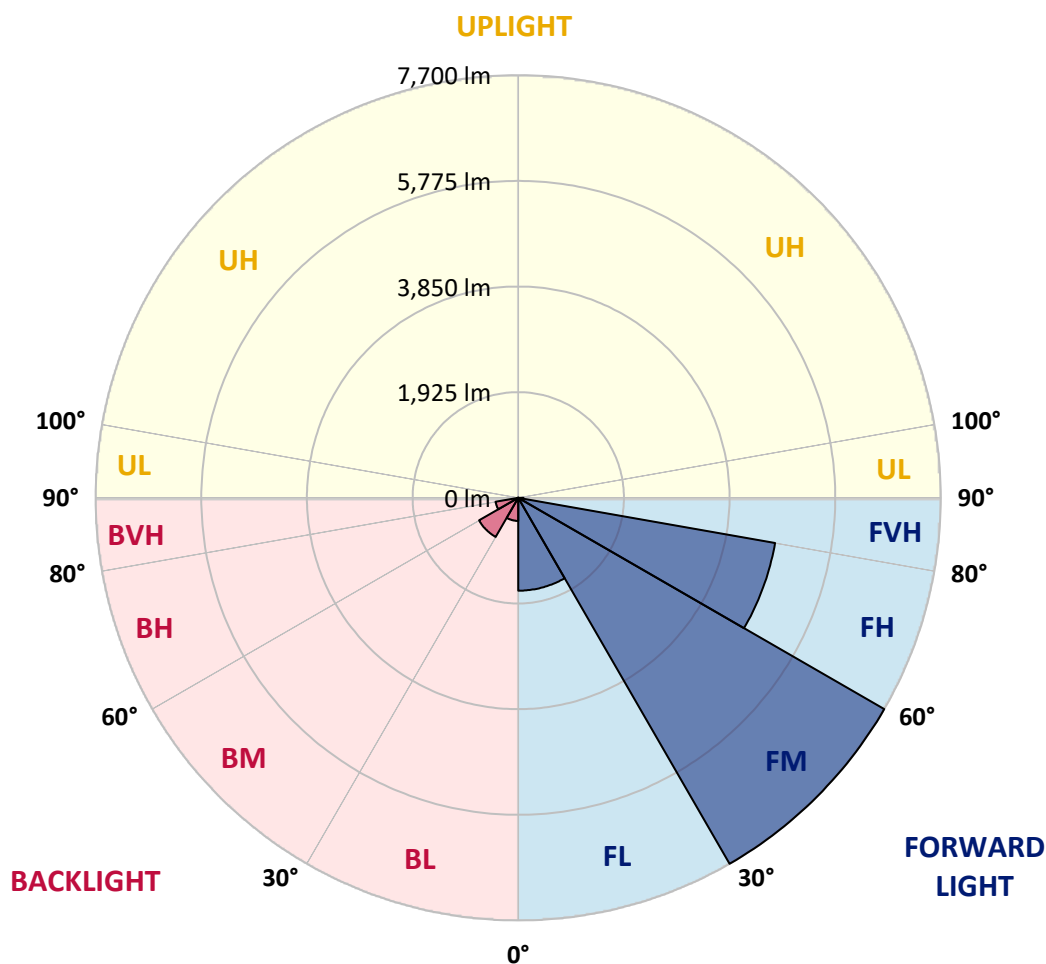
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.6	10.6			
FM	(30°-60°)	7699.6	48.4			
FH	(60°-80°)	4750.9	29.8			G2/5000
FVH	(80°-90°)	94.9	0.6			G1/100
BL	(0°-30°)	420.6	2.6	B1/500		
BM	(30°-60°)	823.6	5.2	B1/1000		
BH	(60°-80°)	419.4	2.6	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1
2.5°	2461.0	2481.1	2491.1	2494.4	2417.6	2384.2	2350.8	2274.0	2257.3	2213.9	2157.1
5°	2895.1	2921.8	2915.2	2901.8	2808.3	2701.4	2614.6	2471.0	2447.7	2344.1	2217.3
7.5°	3322.5	3345.9	3339.2	3289.1	3185.6	3035.4	2891.8	2681.4	2648.0	2481.1	2277.4
10°	3679.8	3699.9	3696.5	3646.4	3522.9	3339.2	3165.6	2885.1	2845.0	2607.9	2327.4
12.5°	3973.7	4000.4	3997.1	3963.7	3853.5	3653.1	3456.1	3118.8	3068.8	2761.5	2397.6
15°	4204.1	4237.5	4237.5	4224.1	4147.3	3980.4	3756.6	3376.0	3315.9	2938.5	2484.4
17.5°	4344.3	4371.1	4394.4	4417.8	4364.4	4237.5	4033.8	3633.1	3569.6	3112.2	2574.5
20°	4417.8	4444.5	4461.2	4511.3	4521.3	4457.9	4297.6	3886.9	3820.1	3309.2	2678.1
22.5°	4538.0	4561.4	4564.7	4608.1	4628.2	4644.9	4544.7	4137.3	4083.9	3526.2	2794.9
25°	4738.4	4765.1	4755.1	4775.1	4778.4	4798.5	4788.5	4424.5	4371.1	3773.3	2935.2
27.5°	4995.5	5028.9	5022.2	5002.2	4972.1	4955.4	4998.8	4715.0	4664.9	4020.4	3078.8
30°	5272.7	5312.7	5302.7	5262.6	5182.5	5112.4	5172.5	4988.8	4942.1	4274.2	3239.1
32.5°	5553.1	5599.9	5596.6	5529.8	5392.9	5272.7	5362.8	5245.9	5212.5	4548.0	3412.7
35°	5736.8	5796.9	5790.2	5750.2	5573.2	5469.7	5579.9	5509.7	5486.4	4882.0	3663.1
37.5°	6034.0	6097.4	6040.7	5940.5	5736.8	5683.4	5816.9	5806.9	5790.2	5235.9	3926.9
40°	6755.3	6848.8	6698.5	6287.8	5953.9	5907.1	6097.4	6137.5	6120.8	5586.5	4164.0
42.5°	7509.9	7650.2	7416.4	6848.8	6347.9	6177.6	6404.7	6461.4	6441.4	5887.1	4377.7
45°	7967.4	8027.5	7793.8	7353.0	7045.8	6504.8	6731.9	6825.4	6808.7	6247.7	4651.6
47.5°	8341.4	8318.0	8050.9	7753.7	7810.5	6965.6	7102.6	7286.2	7272.9	6645.1	4952.1
50°	8421.5	8368.1	8261.3	8074.3	8224.5	7433.1	7493.2	7810.5	7797.1	7085.9	5256.0
52.5°	7857.2	7787.1	8077.6	8234.6	8184.5	7773.7	7924.0	8384.8	8378.1	7563.4	5546.5
55°	6448.1	6391.3	7172.7	7984.1	8141.1	8014.2	8401.5	8982.5	9019.3	8070.9	5810.3
57.5°	5072.3	5012.2	5780.2	7356.3	7980.8	8234.6	8959.2	9667.1	9713.8	8621.9	6060.7
60°	4043.8	3953.7	4541.4	6367.9	7680.2	8404.9	9496.8	10418.4	10425.1	9126.1	6214.3
62.5°	2748.2	2648.0	3299.2	5115.7	7176.0	8431.6	9910.8	11066.2	11092.9	9503.5	6241.0
65°	1669.6	1586.1	2026.9	3736.6	6431.4	8204.5	9917.5	11543.7	11567.1	9677.1	6080.7
67.5°	968.4	935.0	1158.7	2327.4	5195.8	7593.4	9500.1	11470.3	11513.7	9603.6	5716.8
70°	564.3	561.0	644.5	1152.0	3666.5	6381.3	8568.5	10852.5	10916.0	9219.6	5159.1
72.5°	414.1	420.7	454.1	617.8	2123.8	4594.8	7256.2	9610.3	9707.2	8468.3	4364.4
75°	327.2	330.6	360.6	420.7	1115.3	2597.9	5436.3	7713.6	7790.4	7129.3	3409.4
77.5°	243.8	250.4	273.8	297.2	517.6	1192.1	3058.7	4751.7	4624.8	3913.6	1646.2
80°	177.0	193.7	203.7	213.7	273.8	460.8	918.3	1656.3	1642.9	1709.7	778.0
82.5°	113.5	126.9	136.9	143.6	163.6	220.4	273.8	370.7	400.7	664.5	310.5
85°	50.1	56.8	63.4	76.8	70.1	76.8	113.5	73.5	63.4	100.2	56.8
87.5°	0.0	0.0	10.0	16.7	13.4	6.7	20.0	13.4	10.0	10.0	10.0
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°	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1
2.5°	2127.1	2090.4	2013.6	1940.1	1896.7	1839.9	1789.8	1743.1	1739.7	1726.4	1703.0
5°	2153.8	2083.7	1940.1	1803.2	1699.7	1589.5	1496.0	1422.5	1395.8	1375.8	1349.1
7.5°	2180.5	2070.3	1856.6	1656.3	1492.6	1339.0	1228.8	1128.7	1098.6	1071.9	1055.2
10°	2190.5	2047.0	1759.8	1492.6	1278.9	1115.3	998.4	925.0	898.3	884.9	874.9
12.5°	2220.6	2033.6	1669.6	1339.0	1091.9	941.7	858.2	814.8	804.8	794.7	784.7
15°	2260.7	2033.6	1579.5	1188.8	945.0	824.8	774.7	744.6	738.0	734.6	728.0
17.5°	2304.1	2033.6	1492.6	1061.9	838.1	748.0	711.3	694.6	691.2	687.9	684.5
20°	2364.2	2036.9	1399.1	951.7	761.3	691.2	661.2	641.1	637.8	634.5	634.5
22.5°	2424.3	2043.6	1309.0	868.2	711.3	647.8	611.1	591.0	584.4	584.4	584.4
25°	2501.1	2063.6	1225.5	798.1	667.8	607.7	561.0	544.3	541.0	541.0	537.6
27.5°	2591.2	2087.0	1152.0	744.6	624.4	561.0	514.2	497.5	490.9	490.9	487.5
30°	2688.1	2110.4	1091.9	704.6	581.0	514.2	470.8	450.8	444.1	447.5	444.1
32.5°	2794.9	2143.8	1045.2	677.9	541.0	474.2	434.1	410.7	407.4	407.4	404.0
35°	2975.3	2237.3	1038.5	664.5	507.6	444.1	404.0	380.7	377.3	377.3	374.0
37.5°	3168.9	2344.1	1068.6	657.8	480.8	417.4	380.7	357.3	354.0	354.0	354.0
40°	3332.6	2424.3	1101.9	657.8	464.2	394.0	360.6	340.6	340.6	340.6	340.6
42.5°	3442.8	2431.0	1095.3	657.8	450.8	377.3	347.3	327.2	327.2	330.6	327.2
45°	3606.4	2464.4	1068.6	647.8	440.8	364.0	333.9	317.2	313.9	317.2	317.2
47.5°	3800.0	2524.5	1041.8	607.7	437.4	350.6	323.9	303.9	300.5	303.9	300.5
50°	3983.7	2577.9	1028.5	554.3	430.8	337.3	310.5	290.5	287.2	290.5	287.2
52.5°	4137.3	2601.3	1005.1	517.6	414.1	323.9	297.2	277.2	270.5	273.8	273.8
55°	4260.9	2594.6	971.7	487.5	384.0	310.5	280.5	263.8	253.8	253.8	250.4
57.5°	4374.4	2597.9	941.7	457.5	350.6	290.5	267.1	247.1	233.7	230.4	227.1
60°	4417.8	2581.2	888.2	417.4	317.2	273.8	250.4	227.1	213.7	210.4	207.0
62.5°	4357.7	2521.1	818.1	347.3	287.2	253.8	233.7	210.4	197.0	193.7	190.3
65°	4187.4	2407.6	711.3	273.8	260.5	230.4	213.7	197.0	180.3	173.6	170.3
67.5°	3896.9	2244.0	577.7	220.4	230.4	210.4	200.4	180.3	160.3	153.6	150.3
70°	3482.8	2026.9	434.1	187.0	203.7	187.0	180.3	160.3	143.6	136.9	133.6
72.5°	2901.8	1676.3	303.9	160.3	177.0	163.6	156.9	143.6	126.9	116.9	116.9
75°	2193.9	1202.1	200.4	136.9	146.9	140.2	130.2	120.2	110.2	103.5	100.2
77.5°	945.0	467.5	123.6	103.5	120.2	116.9	103.5	96.8	93.5	86.8	86.8
80°	407.4	190.3	76.8	76.8	86.8	83.5	80.1	73.5	73.5	70.1	66.8
82.5°	150.3	76.8	46.7	56.8	63.4	56.8	56.8	56.8	56.8	53.4	53.4
85°	36.7	23.4	23.4	33.4	36.7	33.4	36.7	33.4	33.4	33.4	30.1
87.5°	10.0	10.0	13.4	13.4	13.4	13.4	13.4	10.0	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)