

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: P841530

Luminaire Tested: **ARCH4-190-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

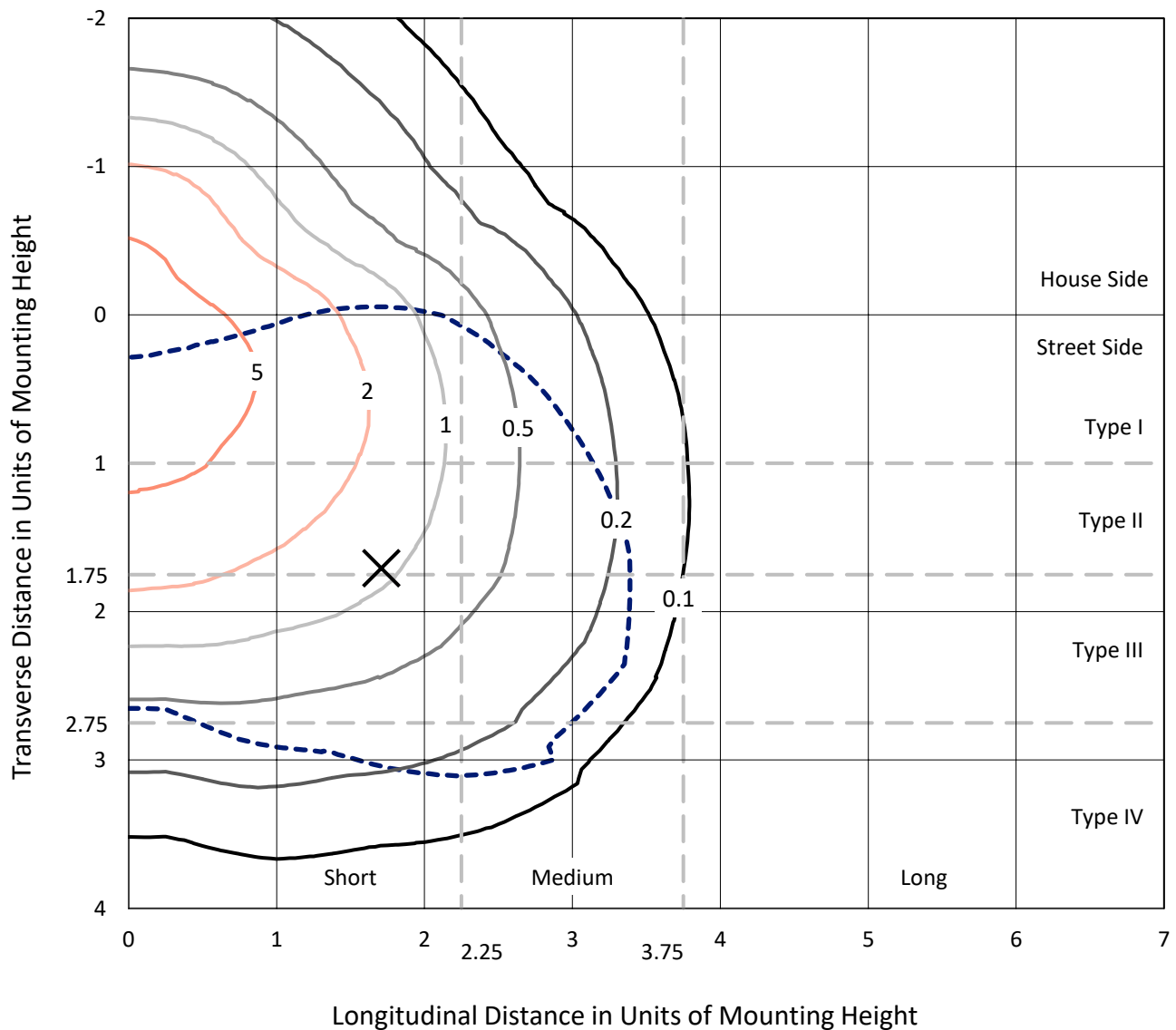
Lumens per Lamp: N/A
Luminaire Lumens: 29108 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 190
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



Iso-Footcandle Lines of Horizontal Illumination

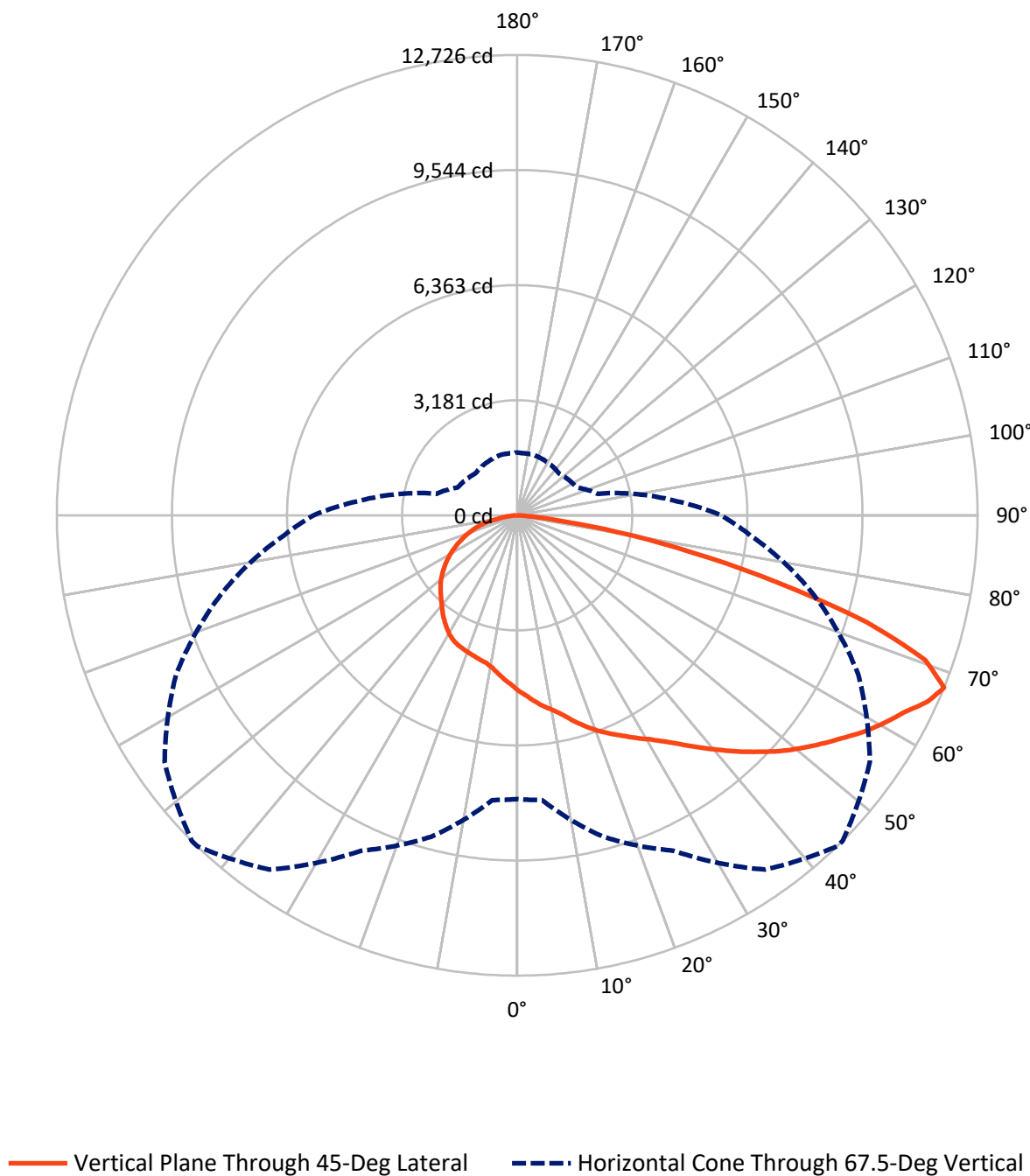
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7776.2	0.0	7776.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	21331.8	0.0	21331.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	29108.0	0.0	29108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.8	1.6
10°-20°	1435.8	4.9
20°-30°	2478.4	8.5
30°-40°	3654.8	12.6
40°-50°	4951.6	17.0
50°-60°	6052.0	20.8
60°-70°	6241.8	21.4
70°-80°	3418.8	11.7
80°-90°	409.8	1.4
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°	29108.0	100.0
0°-180°	29108.0	100.0

Coefficient of Utilization



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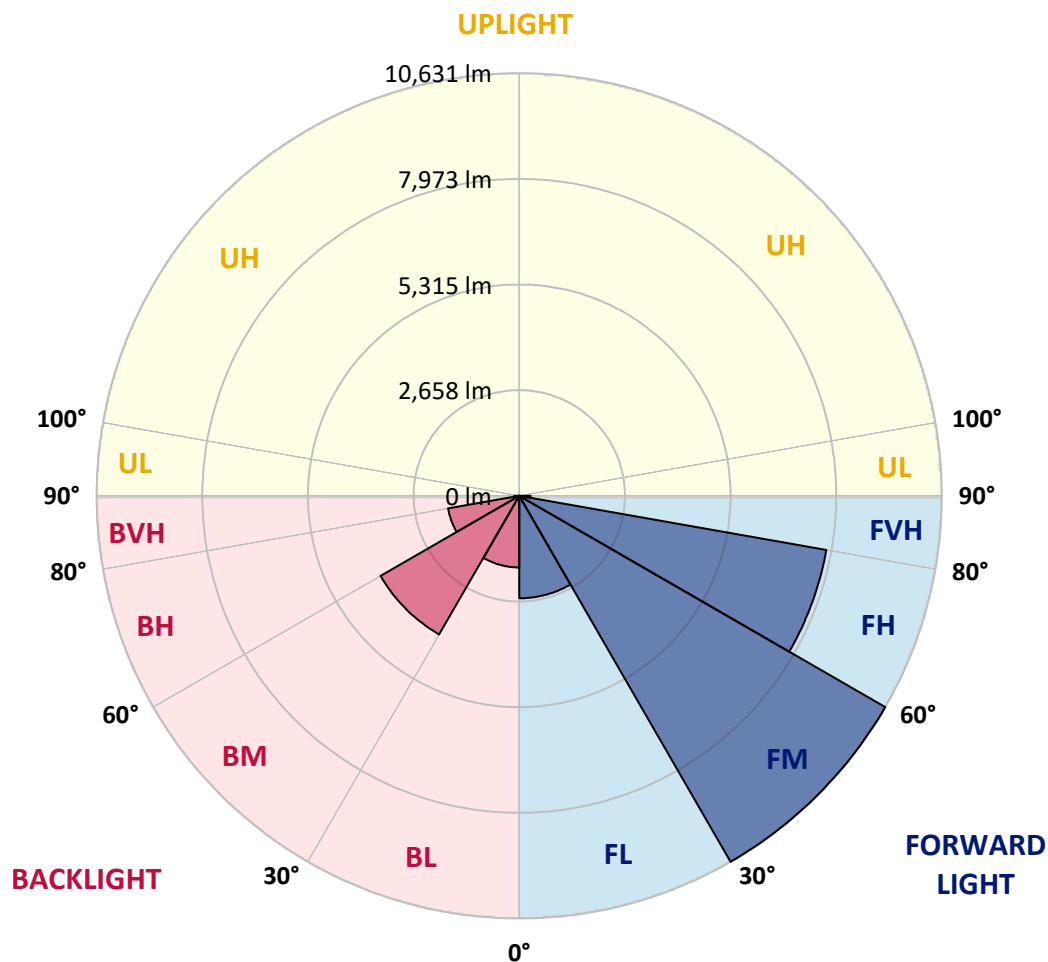
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2576.8	8.9			
FM	(30°-60°)	10630.5	36.5			
FH	(60°-80°)	7842.1	26.9			G4/12000
FVH	(80°-90°)	282.3	1.0			G3/500
BL	(0°-30°)	1802.3	6.2	B3/2500		
BM	(30°-60°)	4028.0	13.8	B3/5000		
BH	(60°-80°)	1818.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	127.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7
2.5°	5067.3	5062.8	5071.7	5040.7	5000.8	4996.4	4996.4	4969.8	4938.8	4876.8	4828.1
5°	5306.5	5297.6	5302.0	5257.7	5204.6	5178.0	5173.6	5116.0	5045.1	4947.7	4859.1
7.5°	5527.9	5519.1	5514.6	5465.9	5386.2	5341.9	5337.5	5253.3	5169.2	5018.6	4890.1
10°	5736.1	5727.3	5718.4	5652.0	5554.5	5488.1	5479.2	5372.9	5266.6	5080.6	4916.7
12.5°	6001.9	5984.2	5975.3	5895.6	5753.8	5683.0	5669.7	5527.9	5395.1	5169.2	4969.8
15°	6280.9	6267.7	6254.4	6179.1	6019.6	5926.6	5904.4	5727.3	5545.7	5284.3	5049.6
17.5°	6489.1	6475.8	6475.8	6409.4	6263.2	6156.9	6139.2	5926.6	5700.7	5390.6	5111.6
20°	6617.6	6604.3	6617.6	6577.7	6467.0	6378.4	6360.7	6125.9	5855.7	5488.1	5164.7
22.5°	6710.6	6697.3	6719.5	6701.7	6622.0	6568.9	6555.6	6325.2	6015.2	5589.9	5217.9
25°	6874.5	6874.5	6874.5	6843.5	6768.2	6750.5	6750.5	6551.1	6218.9	5722.8	5297.6
27.5°	7202.3	7184.5	7162.4	7073.8	6945.4	6940.9	6967.5	6781.5	6453.7	5895.6	5395.1
30°	7685.1	7676.2	7592.1	7406.0	7189.0	7166.8	7184.5	7029.5	6706.2	6077.2	5505.8
32.5°	8309.6	8278.6	8105.9	7826.8	7516.8	7414.9	7450.3	7286.4	6971.9	6263.2	5612.1
35°	8752.6	8761.4	8637.4	8384.9	8017.3	7747.1	7773.7	7574.3	7259.8	6471.4	5745.0
37.5°	9262.0	9293.0	9106.9	8916.5	8575.4	8114.7	8141.3	7871.1	7547.8	6732.7	5886.7
40°	9966.2	9904.2	9589.7	9363.8	8987.3	8500.1	8522.2	8203.3	7880.0	6980.8	6050.6
42.5°	10555.3	10444.6	10063.7	9775.8	9324.0	8907.6	8929.7	8562.1	8216.6	7255.4	6232.2
45°	11401.4	11095.7	10546.5	10404.7	9669.5	9306.2	9328.4	8943.0	8571.0	7547.8	6427.1
47.5°	11893.0	11405.8	11055.9	10980.6	10050.4	9718.2	9744.8	9346.1	8951.9	7880.0	6630.9
50°	11862.0	11547.5	11445.7	11259.6	10387.0	10103.5	10130.1	9762.5	9337.3	8207.7	6825.8
52.5°	11658.3	11715.9	11662.7	11352.6	10723.7	10475.6	10506.6	10174.4	9731.5	8513.4	7007.4
55°	11972.8	12012.6	11910.8	11503.2	11095.7	10847.7	10883.1	10608.5	10121.3	8783.6	7162.4
57.5°	12349.3	12207.5	12105.6	11769.0	11481.1	11250.8	11290.6	11051.4	10457.9	9000.6	7282.0
60°	12331.6	12034.8	12136.7	11786.7	11742.4	11622.8	11658.3	11414.7	10714.8	9160.1	7330.7
62.5°	11423.5	11264.1	11777.9	11658.3	11955.0	11955.0	11999.3	11636.1	10869.8	9226.5	7304.1
65°	9846.6	9855.5	10759.1	11255.2	12207.5	12411.3	12446.7	11773.4	10781.2	9031.6	7056.1
67.5°	7844.5	7902.1	9199.9	10232.0	11955.0	12721.3	12725.8	11897.5	10400.3	8482.4	6480.3
70°	5740.5	5784.8	7317.4	8571.0	10763.5	12034.8	11963.9	11547.5	9572.0	7525.6	5581.1
72.5°	3880.2	3920.1	5496.9	6582.1	8832.3	10249.7	10094.7	10205.4	8159.0	6183.5	4487.0
75°	2608.9	2657.7	3911.2	4708.5	6498.0	7782.5	7437.0	7729.4	6311.9	4681.9	3273.4
77.5°	1643.3	1674.3	2484.9	3087.3	4438.3	5297.6	4952.1	4956.5	3636.6	2520.3	1758.5
80°	1045.3	1054.2	1506.0	1780.6	2569.1	3184.8	2817.1	2290.0	1638.9	1337.7	1049.8
82.5°	606.8	593.5	899.2	1005.5	1222.5	1209.2	1001.1	947.9	717.6	668.8	536.0
85°	243.6	225.9	394.2	367.6	372.1	394.2	292.3	292.3	234.8	181.6	132.9
87.5°	48.7	48.7	53.2	48.7	48.7	53.2	39.9	39.9	35.4	35.4	35.4
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°	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7	4854.7
2.5°	4819.2	4810.4	4788.2	4730.6	4699.6	4681.9	4655.3	4646.5	4642.0	4646.5	4659.8
5°	4832.5	4801.5	4739.5	4646.5	4584.5	4544.6	4500.3	4482.6	4469.3	4469.3	4482.6
7.5°	4841.4	4792.7	4686.3	4549.0	4460.4	4398.4	4345.3	4323.1	4318.7	4332.0	4336.4
10°	4845.8	4774.9	4624.3	4451.6	4336.4	4256.7	4203.5	4190.2	4203.5	4230.1	4234.5
12.5°	4876.8	4779.4	4588.9	4385.1	4247.8	4168.1	4128.2	4128.2	4163.7	4212.4	4216.8
15°	4930.0	4810.4	4571.2	4332.0	4190.2	4119.4	4106.1	4128.2	4181.4	4256.7	4265.5
17.5°	4969.8	4828.1	4531.3	4261.1	4114.9	4070.7	4092.8	4146.0	4221.3	4323.1	4332.0
20°	4996.4	4828.1	4473.7	4177.0	4039.6	4030.8	4092.8	4177.0	4256.7	4376.3	4389.6
22.5°	5023.0	4819.2	4407.3	4075.1	3955.5	3982.1	4097.2	4203.5	4283.3	4411.7	4433.9
25°	5071.7	4832.5	4340.8	3973.2	3866.9	3942.2	4092.8	4221.3	4305.4	4438.3	4473.7
27.5°	5138.1	4863.5	4292.1	3880.2	3778.3	3880.2	4061.8	4216.8	4305.4	4433.9	4473.7
30°	5209.0	4899.0	4234.5	3778.3	3676.4	3791.6	3995.4	4168.1	4270.0	4389.6	4438.3
32.5°	5284.3	4938.8	4185.8	3667.6	3552.4	3672.0	3897.9	4092.8	4203.5	4314.3	4367.4
35°	5386.2	5009.7	4159.2	3579.0	3441.7	3548.0	3773.9	3995.4	4114.9	4216.8	4278.8
37.5°	5510.2	5098.3	4146.0	3490.4	3322.1	3410.7	3641.0	3875.8	4004.2	4088.4	4146.0
40°	5652.0	5209.0	4141.5	3406.2	3202.5	3268.9	3503.7	3738.4	3862.5	3928.9	3977.6
42.5°	5811.4	5333.0	4132.7	3322.1	3082.9	3136.0	3370.8	3601.1	3707.4	3765.0	3809.3
45°	5979.7	5457.1	4114.9	3220.2	2954.4	3016.4	3233.5	3437.2	3548.0	3596.7	3645.4
47.5°	6148.1	5581.1	4079.5	3105.0	2839.3	2896.9	3087.3	3264.5	3353.1	3397.4	3446.1
50°	6311.9	5691.8	3995.4	2972.2	2719.7	2772.8	2919.0	3038.6	3105.0	3140.5	3189.2
52.5°	6458.1	5767.1	3875.8	2817.1	2600.1	2626.7	2724.1	2826.0	2879.1	2883.6	2927.9
55°	6582.1	5807.0	3703.0	2657.7	2471.6	2476.1	2529.2	2608.9	2631.1	2613.4	2644.4
57.5°	6653.0	5784.8	3512.5	2493.8	2338.7	2321.0	2360.9	2400.8	2405.2	2360.9	2391.9
60°	6670.7	5683.0	3264.5	2329.9	2205.9	2157.1	2170.4	2161.6	2152.7	2135.0	2161.6
62.5°	6582.1	5465.9	2989.9	2170.4	2064.1	1988.8	1984.4	1980.0	1993.2	1997.7	2002.1
65°	6258.8	5058.4	2662.1	2006.5	1913.5	1811.6	1807.2	1860.4	1878.1	1851.5	1860.4
67.5°	5634.2	4433.9	2303.3	1816.1	1723.1	1634.5	1669.9	1700.9	1731.9	1723.1	1731.9
70°	4748.4	3641.0	1975.5	1603.5	1514.9	1466.1	1506.0	1532.6	1537.0	1528.2	1537.0
72.5°	3734.0	2843.7	1669.9	1386.4	1306.7	1284.5	1333.3	1355.4	1395.3	1413.0	1417.4
75°	2697.5	2099.6	1368.7	1151.7	1085.2	1085.2	1129.5	1169.4	1204.8	1182.7	1169.4
77.5°	1506.0	1253.5	983.3	792.9	806.2	868.2	885.9	930.2	965.6	961.2	952.3
80°	912.5	784.0	664.4	513.8	509.4	558.1	673.3	748.6	766.3	726.4	722.0
82.5°	473.9	411.9	354.4	287.9	318.9	372.1	389.8	469.5	518.2	500.5	522.7
85°	119.6	115.2	128.5	132.9	163.9	181.6	199.3	234.8	155.0	75.3	75.3
87.5°	35.4	35.4	44.3	44.3	57.6	70.9	66.4	66.4	35.4	4.4	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)