

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: P836462

Luminaire Tested: **ARCH3-190-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

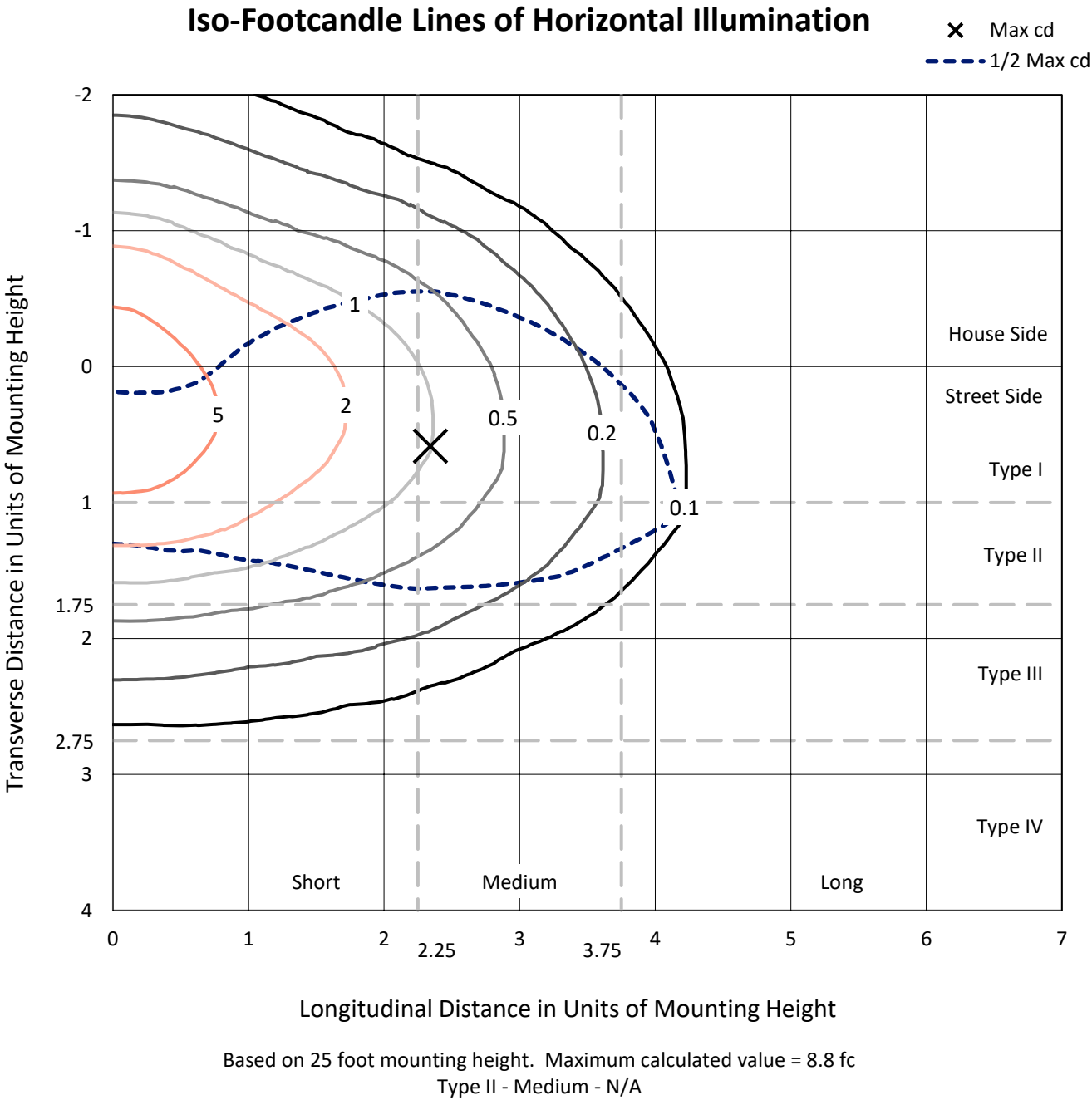
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23950 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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

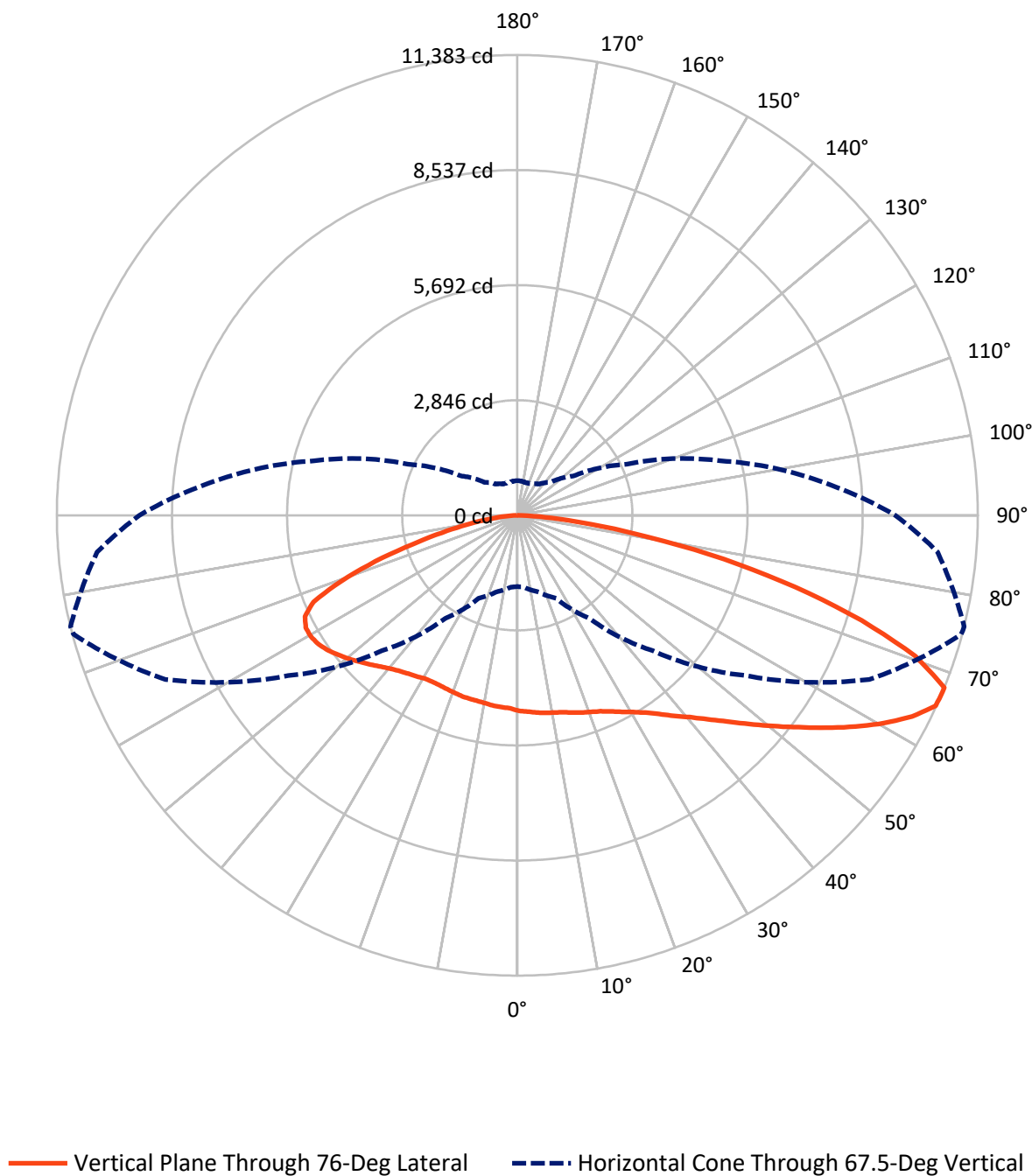


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8092.8	0.0	8092.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15857.2	0.0	15857.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	23950.0	0.0	23950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	1.9
10°-20°	1426.2	6.0
20°-30°	2423.1	10.1
30°-40°	3447.8	14.4
40°-50°	4354.4	18.2
50°-60°	4714.5	19.7
60°-70°	4385.0	18.3
70°-80°	2355.1	9.8
80°-90°	377.4	1.6
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°	23950.0	100.0
0°-180°	23950.0	100.0

Coefficient of Utilization



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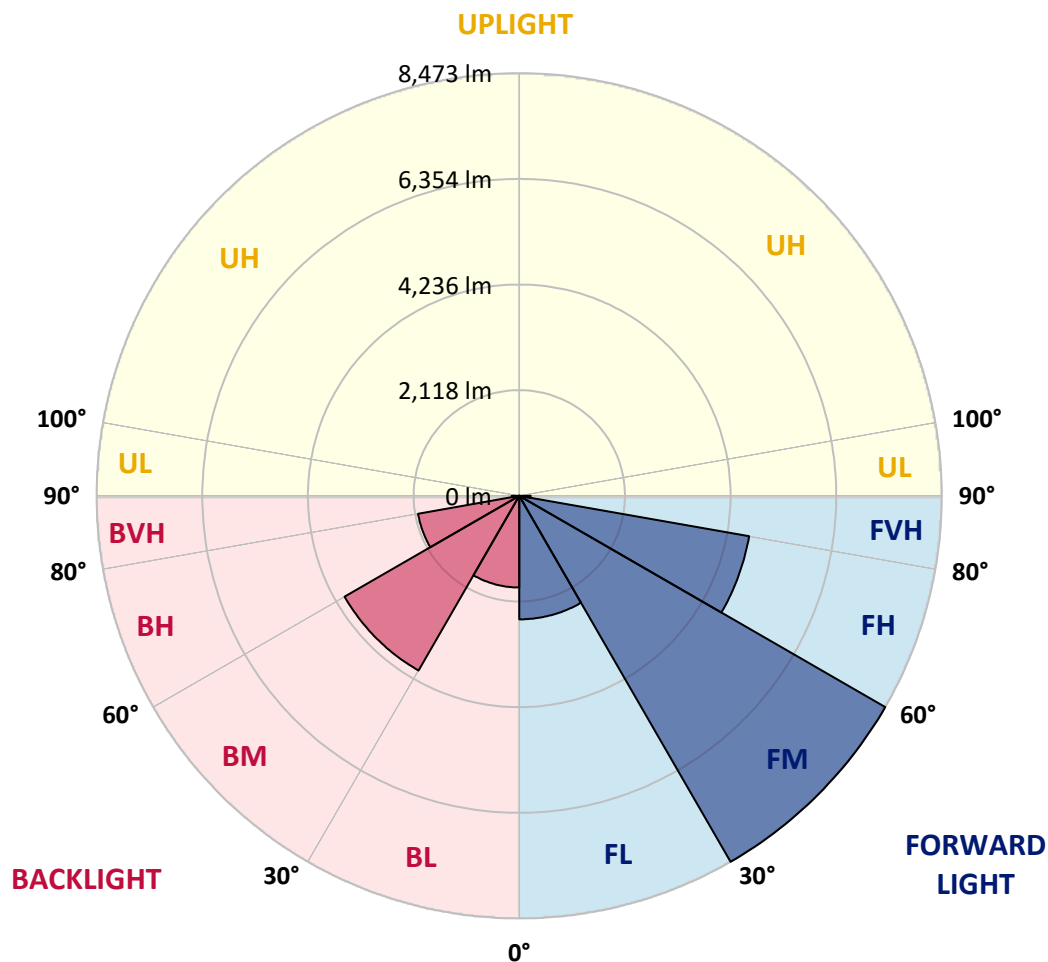
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2476.7	10.3			
FM	(30°-60°)	8472.6	35.4			
FH	(60°-80°)	4679.6	19.5			G2/5000
FVH	(80°-90°)	228.3	1.0			G3/500
BL	(0°-30°)	1839.1	7.7	B3/2500		
BM	(30°-60°)	4044.1	16.9	B3/5000		
BH	(60°-80°)	2060.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	149.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4984.6	4975.7	4940.1	4944.6	4944.6	4940.1	4886.8	4864.5	4864.5	4860.1	4811.2
5°	5162.4	5149.1	5109.1	5100.2	5082.4	5060.2	4975.7	4926.8	4904.5	4900.1	4833.4
7.5°	5371.4	5353.6	5304.7	5278.1	5233.6	5175.8	5069.1	4993.5	4940.1	4935.7	4842.3
10°	5580.4	5562.6	5504.8	5455.9	5393.7	5300.3	5162.4	5051.3	4966.8	4957.9	4846.7
12.5°	5829.4	5811.6	5740.5	5678.2	5584.9	5460.4	5278.1	5126.9	5011.3	4997.9	4860.1
15°	6091.8	6065.1	5994.0	5922.8	5807.2	5647.1	5429.2	5229.1	5082.4	5060.2	4900.1
17.5°	6309.7	6274.1	6216.3	6145.1	6016.2	5829.4	5580.4	5331.4	5149.1	5131.3	4940.1
20°	6496.4	6469.7	6407.5	6340.8	6202.9	5998.4	5722.7	5433.7	5211.4	5189.1	4971.2
22.5°	6674.3	6638.7	6603.1	6554.2	6403.0	6176.3	5887.2	5558.2	5291.4	5264.7	5011.3
25°	6878.8	6838.8	6825.5	6798.8	6620.9	6389.7	6087.3	5713.8	5402.6	5371.4	5082.4
27.5°	7132.3	7087.8	7061.1	7061.1	6847.7	6607.6	6300.8	5896.1	5531.5	5504.8	5171.3
30°	7399.1	7345.7	7305.7	7305.7	7065.6	6825.5	6509.8	6078.4	5678.2	5647.1	5286.9
32.5°	7634.7	7581.4	7536.9	7532.5	7283.4	7043.3	6727.6	6278.5	5856.1	5816.1	5429.2
35°	7817.0	7768.1	7728.1	7737.0	7501.3	7265.7	6972.2	6545.3	6078.4	6034.0	5616.0
37.5°	7928.2	7910.4	7888.2	7919.3	7701.4	7479.1	7225.6	6803.2	6331.9	6291.9	5847.2
40°	7986.0	7972.7	8061.6	8101.6	7870.4	7670.3	7479.1	7070.0	6607.6	6563.1	6114.0
42.5°	8070.5	8181.7	8217.2	8208.3	7994.9	7817.0	7710.3	7359.0	6932.2	6892.2	6434.2
45°	7768.1	7741.4	7937.1	8043.8	8003.8	7910.4	7928.2	7705.9	7310.1	7270.1	6803.2
47.5°	7363.5	7327.9	7439.1	7701.4	7857.1	7946.0	8123.8	8066.0	7745.9	7710.3	7234.5
50°	6509.8	6558.7	6972.2	7323.5	7630.3	7937.1	8288.4	8452.9	8226.1	8190.5	7697.0
52.5°	5562.6	5611.5	6042.9	6852.1	7354.6	7870.4	8408.4	8839.7	8746.4	8706.3	8190.5
55°	4873.4	4980.1	5469.3	6056.2	6963.3	7661.4	8479.6	9235.5	9306.6	9271.1	8728.6
57.5°	4188.7	4268.7	4637.8	5158.0	6429.7	7296.8	8475.1	9604.5	9893.6	9858.0	9275.5
60°	3383.8	3486.1	3779.6	4339.8	5718.3	6861.0	8350.6	9893.6	10458.3	10431.6	9804.6
62.5°	2832.5	2863.6	3072.6	3557.2	4802.3	6309.7	8070.5	10049.2	10969.6	10951.9	10280.4
65°	2281.1	2285.5	2476.7	2881.4	3917.4	5624.9	7594.7	9991.4	11356.5	11365.4	10622.8
67.5°	1760.8	1783.1	1956.5	2263.3	3112.6	4735.6	6914.4	9600.1	11360.9	11383.2	10427.2
70°	1218.4	1236.1	1498.5	1796.4	2405.6	3775.1	5994.0	8564.1	10427.2	10444.9	9346.6
72.5°	858.2	867.1	1147.2	1436.2	1880.9	2845.8	4522.1	7083.4	8888.7	8902.0	7861.5
75°	640.3	649.2	809.3	1089.4	1440.7	1969.8	3090.4	5424.8	7101.1	7101.1	6207.4
77.5°	453.5	458.0	524.7	751.5	960.5	1329.5	1858.7	3552.8	5211.4	5220.3	4522.1
80°	306.8	311.3	342.4	506.9	600.3	720.3	1009.4	1863.1	3286.0	3299.3	2872.5
82.5°	160.1	169.0	191.2	257.9	302.4	400.2	520.2	947.1	1818.6	1854.2	1725.3
85°	62.3	62.3	71.1	84.5	111.2	155.6	240.1	360.2	822.6	849.3	760.4
87.5°	22.2	22.2	26.7	26.7	31.1	35.6	40.0	53.4	93.4	93.4	88.9
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°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4793.4	4793.4	4771.1	4780.0	4775.6	4766.7	4757.8	4771.1	4757.8	4726.7	4722.2
5°	4802.3	4793.4	4757.8	4753.4	4740.0	4722.2	4700.0	4708.9	4686.7	4660.0	4655.5
7.5°	4806.7	4788.9	4740.0	4722.2	4695.6	4660.0	4624.4	4624.4	4593.3	4566.6	4562.2
10°	4797.8	4775.6	4708.9	4673.3	4624.4	4571.1	4522.1	4508.8	4473.2	4442.1	4442.1
12.5°	4802.3	4771.1	4686.7	4628.9	4562.2	4495.5	4433.2	4415.4	4384.3	4353.2	4348.7
15°	4829.0	4784.5	4677.8	4602.2	4504.4	4428.8	4362.1	4348.7	4322.0	4299.8	4299.8
17.5°	4855.6	4797.8	4664.4	4557.7	4437.7	4353.2	4290.9	4290.9	4273.1	4259.8	4259.8
20°	4869.0	4802.3	4637.8	4495.5	4357.6	4268.7	4210.9	4219.8	4215.3	4210.9	4210.9
22.5°	4900.1	4811.2	4615.5	4437.7	4273.1	4179.8	4126.4	4139.7	4135.3	4135.3	4139.7
25°	4949.0	4833.4	4597.7	4384.3	4193.1	4090.8	4033.0	4041.9	4041.9	4041.9	4041.9
27.5°	5015.7	4877.9	4593.3	4335.4	4113.1	3997.4	3926.3	3926.3	3908.5	3913.0	3917.4
30°	5118.0	4962.4	4602.2	4290.9	4028.6	3881.8	3797.4	3784.0	3779.6	3788.5	3792.9
32.5°	5242.5	5078.0	4655.5	4259.8	3939.6	3752.9	3646.2	3641.7	3628.4	3628.4	3628.4
35°	5398.1	5189.1	4704.5	4255.3	3850.7	3615.0	3499.4	3486.1	3455.0	3441.6	3441.6
37.5°	5598.2	5362.5	4762.3	4224.2	3775.1	3481.6	3343.8	3299.3	3263.8	3259.3	3259.3
40°	5842.8	5558.2	4846.7	4188.7	3695.1	3343.8	3161.5	3085.9	3090.4	3108.1	3108.1
42.5°	6131.8	5798.3	4953.5	4170.9	3579.5	3201.5	2948.1	2859.1	2890.3	2908.0	2912.5
45°	6469.7	6082.9	5073.5	4148.6	3472.8	3041.4	2721.3	2610.1	2623.5	2627.9	2632.4
47.5°	6861.0	6398.6	5198.0	4130.8	3352.7	2841.3	2472.3	2325.5	2321.1	2294.4	2303.3
50°	7270.1	6732.1	5327.0	4099.7	3206.0	2605.7	2209.9	2036.5	2000.9	1960.9	1965.4
52.5°	7705.9	7074.5	5447.0	4050.8	3023.7	2365.6	1960.9	1774.2	1703.0	1658.6	1667.5
55°	8186.1	7425.7	5562.6	3975.2	2832.5	2125.5	1738.6	1547.4	1458.5	1422.9	1427.3
57.5°	8626.3	7763.7	5647.1	3881.8	2623.5	1907.6	1543.0	1356.2	1298.4	1293.9	1298.4
60°	9053.2	8048.3	5682.7	3752.9	2410.0	1707.5	1360.6	1218.4	1178.3	1200.6	1205.0
62.5°	9413.3	8230.6	5664.9	3579.5	2192.1	1516.3	1213.9	1111.6	1085.0	1129.4	1133.9
65°	9622.3	8288.4	5540.4	3330.5	1956.5	1329.5	1076.1	964.9	951.6	978.2	991.6
67.5°	9346.6	7928.2	5202.5	2988.1	1694.1	1156.1	942.7	853.7	831.5	853.7	853.7
70°	8283.9	6869.9	4402.1	2445.6	1405.1	987.1	818.2	755.9	738.1	755.9	751.5
72.5°	6901.0	5713.8	3468.3	1907.6	1107.2	831.5	711.4	653.6	635.9	618.1	609.2
75°	5353.6	4339.8	2516.7	1400.7	836.0	667.0	595.8	542.5	498.0	515.8	506.9
77.5°	3921.9	3045.9	1783.1	969.3	600.3	515.8	466.9	426.9	395.7	431.3	426.9
80°	2525.6	1969.8	1191.7	649.2	413.5	360.2	342.4	320.2	351.3	458.0	466.9
82.5°	1543.0	1249.5	711.4	422.4	271.2	240.1	222.3	222.3	360.2	395.7	400.2
85°	689.2	662.5	386.8	217.9	151.2	137.8	124.5	160.1	146.7	106.7	111.2
87.5°	111.2	115.6	84.5	75.6	57.8	57.8	44.5	31.1	22.2	13.3	13.3
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)