

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: P841944

Luminaire Tested: **ARCH4-250-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841944
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: ARCH4-250-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31428 lumens
Efficiency: N/A
Efficacy: 126.0 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): 249.5
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



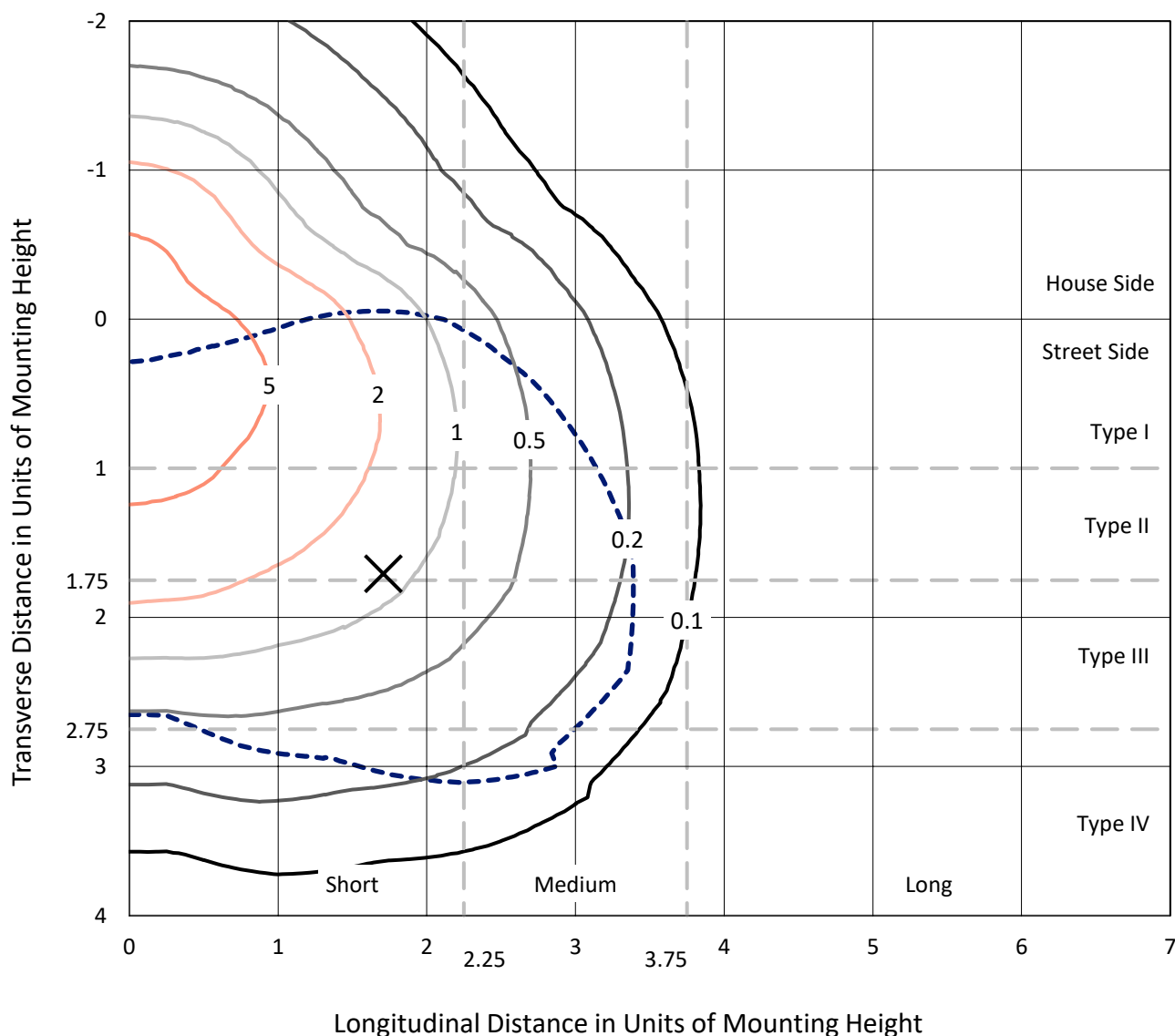
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

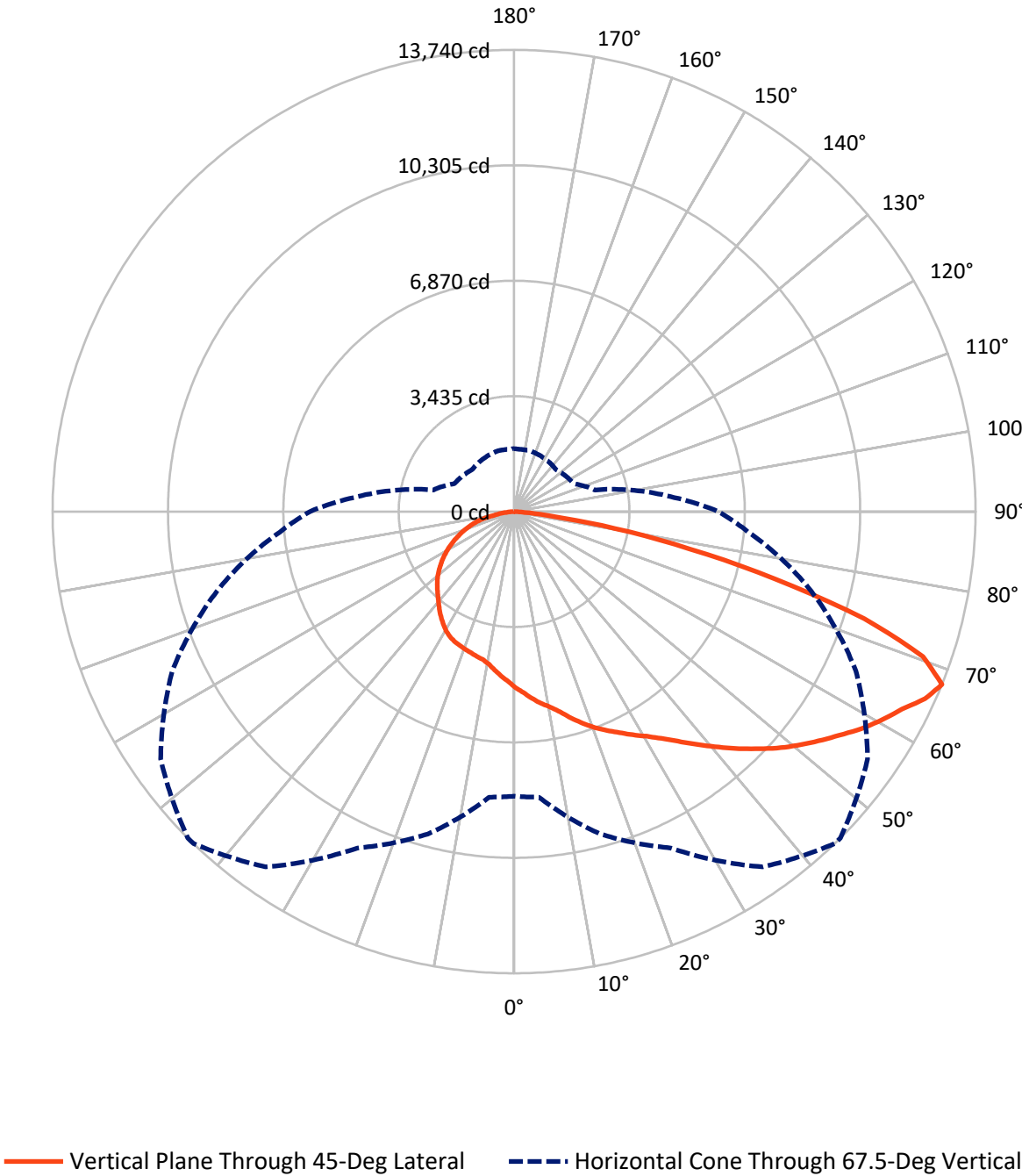


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc

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	8396.0	0.0	8396.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	23032.0	0.0	23032.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	31428.0	0.0	31428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	1.6
10°-20°	1550.3	4.9
20°-30°	2676.0	8.5
30°-40°	3946.1	12.6
40°-50°	5346.3	17.0
50°-60°	6534.4	20.8
60°-70°	6739.3	21.4
70°-80°	3691.3	11.7
80°-90°	442.4	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°	31428.0	100.0
0°-180°	31428.0	100.0

Coefficient of Utilization



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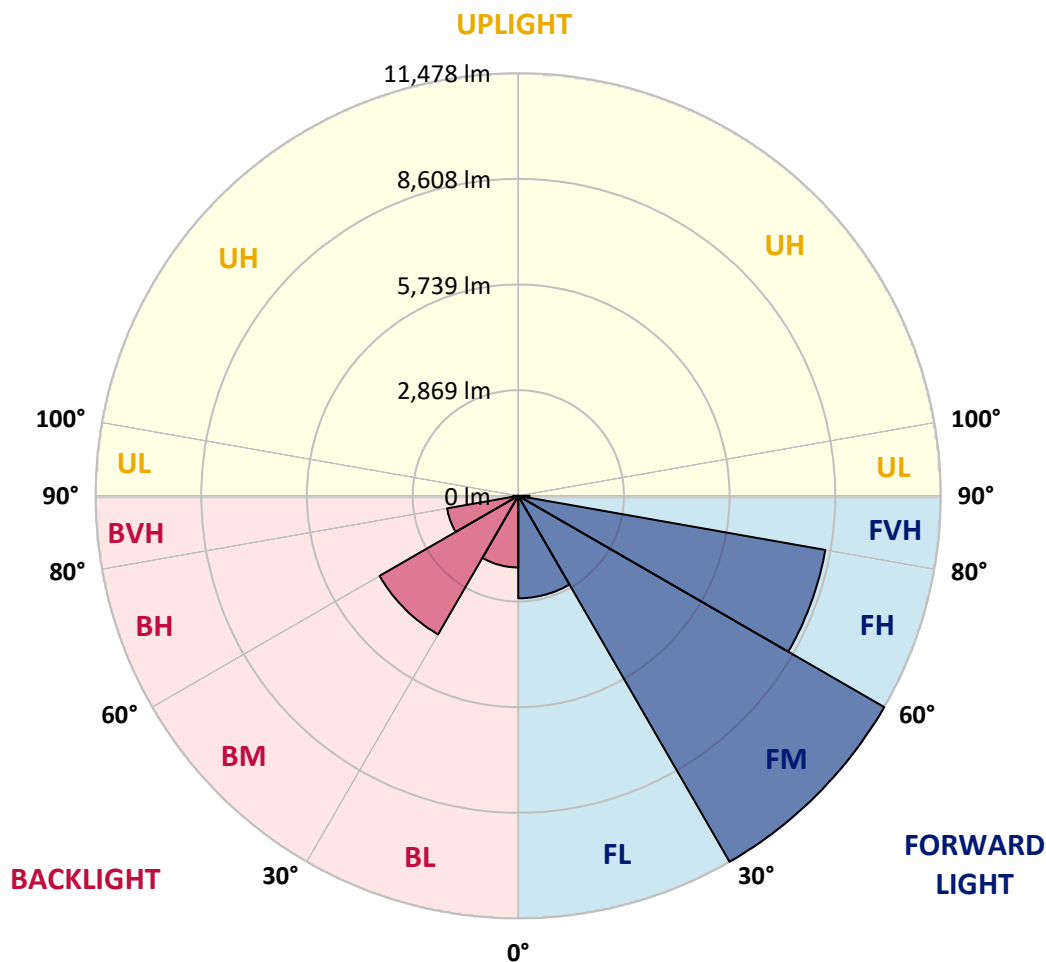
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2782.2	8.9			
FM	(30°-60°)	11477.8	36.5			
FH	(60°-80°)	8467.2	26.9			G4/12000
FVH	(80°-90°)	304.8	1.0			G3/500
BL	(0°-30°)	1945.9	6.2	B3/2500		
BM	(30°-60°)	4349.0	13.8	B3/5000		
BH	(60°-80°)	1963.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	137.6	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°	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6
2.5°	5471.2	5466.4	5475.9	5442.5	5399.4	5394.6	5394.6	5365.9	5332.5	5265.5	5212.9
5°	5729.4	5719.8	5724.6	5676.8	5619.4	5590.7	5585.9	5523.8	5447.2	5342.0	5246.4
7.5°	5968.5	5959.0	5954.2	5901.6	5815.5	5767.7	5762.9	5672.0	5581.2	5418.5	5279.9
10°	6193.3	6183.7	6174.2	6102.4	5997.2	5925.5	5915.9	5801.1	5686.4	5485.5	5308.5
12.5°	6480.3	6461.1	6451.6	6365.5	6212.4	6135.9	6121.6	5968.5	5825.1	5581.2	5365.9
15°	6781.6	6767.2	6752.9	6671.6	6499.4	6399.0	6375.0	6183.7	5987.7	5705.5	5452.0
17.5°	7006.3	6992.0	6992.0	6920.2	6762.4	6647.6	6628.5	6399.0	6155.0	5820.3	5519.0
20°	7145.0	7130.7	7145.0	7102.0	6982.4	6886.8	6867.6	6614.2	6322.4	5925.5	5576.4
22.5°	7245.5	7231.1	7255.0	7235.9	7149.8	7092.4	7078.1	6829.4	6494.6	6035.5	5633.8
25°	7422.4	7422.4	7422.4	7388.9	7307.6	7288.5	7288.5	7073.3	6714.6	6179.0	5719.8
27.5°	7776.3	7757.2	7733.3	7637.6	7498.9	7494.1	7522.8	7322.0	6968.1	6365.5	5825.1
30°	8297.6	8288.0	8197.2	7996.3	7762.0	7738.0	7757.2	7589.8	7240.7	6561.6	5944.6
32.5°	8971.9	8938.4	8751.9	8450.6	8115.9	8005.9	8044.1	7867.2	7527.6	6762.4	6059.4
35°	9450.2	9459.7	9325.8	9053.2	8656.3	8364.6	8393.2	8178.0	7838.5	6987.2	6202.9
37.5°	10000.2	10033.6	9832.8	9627.1	9258.9	8761.5	8790.2	8498.5	8149.3	7269.4	6355.9
40°	10760.6	10693.6	10354.1	10110.2	9703.6	9177.6	9201.5	8857.1	8508.0	7537.2	6532.9
42.5°	11396.6	11277.1	10865.8	10554.9	10067.1	9617.6	9641.5	9244.5	8871.5	7833.7	6728.9
45°	12310.1	11980.1	11387.1	11234.0	10440.1	10048.0	10071.9	9655.8	9254.1	8149.3	6939.4
47.5°	12840.9	12314.9	11937.1	11855.8	10851.4	10492.8	10521.4	10091.0	9665.4	8508.0	7159.4
50°	12807.5	12467.9	12357.9	12157.1	11214.9	10908.8	10937.5	10540.6	10081.5	8861.9	7369.8
52.5°	12587.5	12649.7	12592.3	12257.5	11578.4	11310.6	11344.0	10985.3	10507.1	9191.9	7565.9
55°	12927.0	12970.1	12860.1	12420.1	11980.1	11712.3	11750.5	11454.0	10928.0	9483.7	7733.3
57.5°	13333.5	13180.5	13070.5	12707.0	12396.2	12147.5	12190.5	11932.3	11291.4	9718.0	7862.4
60°	13314.4	12994.0	13104.0	12726.2	12678.3	12549.2	12587.5	12324.4	11568.8	9890.2	7915.0
62.5°	12334.0	12161.8	12716.6	12587.5	12907.9	12907.9	12955.7	12563.6	11736.2	9961.9	7886.3
65°	10631.4	10641.0	11616.6	12152.3	13180.5	13400.5	13438.8	12711.8	11640.5	9751.5	7618.5
67.5°	8469.8	8531.9	9933.2	11047.5	12907.9	13735.3	13740.1	12845.7	11229.3	9158.4	6996.8
70°	6198.1	6245.9	7900.7	9254.1	11621.4	12994.0	12917.5	12467.9	10334.9	8125.4	6025.9
72.5°	4189.4	4232.5	5935.1	7106.8	9536.3	11066.7	10899.3	11018.8	8809.3	6676.3	4844.6
75°	2816.9	2869.5	4222.9	5083.8	7015.9	8402.8	8029.8	8345.4	6815.0	5055.1	3534.3
77.5°	1774.3	1807.8	2683.0	3333.4	4792.0	5719.8	5346.8	5351.6	3926.4	2721.2	1898.6
80°	1128.7	1138.2	1626.0	1922.6	2773.8	3438.6	3041.7	2472.5	1769.5	1444.3	1133.4
82.5°	655.2	640.9	970.8	1085.6	1320.0	1305.6	1080.8	1023.4	774.8	722.2	578.7
85°	263.0	243.9	425.6	396.9	401.7	425.6	315.6	315.6	253.5	196.1	143.5
87.5°	52.6	52.6	57.4	52.6	52.6	57.4	43.0	43.0	38.3	38.3	38.3
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°	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6	5241.6
2.5°	5203.3	5193.8	5169.9	5107.7	5074.2	5055.1	5026.4	5016.8	5012.0	5016.8	5031.2
5°	5217.7	5184.2	5117.2	5016.8	4949.9	4906.8	4859.0	4839.9	4825.5	4825.5	4839.9
7.5°	5227.2	5174.6	5059.9	4911.6	4816.0	4749.0	4691.6	4667.7	4662.9	4677.3	4682.0
10°	5232.0	5155.5	4992.9	4806.4	4682.0	4596.0	4538.6	4524.2	4538.6	4567.3	4572.0
12.5°	5265.5	5160.3	4954.6	4734.7	4586.4	4500.3	4457.3	4457.3	4495.5	4548.1	4552.9
15°	5322.9	5193.8	4935.5	4677.3	4524.2	4447.7	4433.4	4457.3	4514.7	4596.0	4605.5
17.5°	5365.9	5212.9	4892.5	4600.7	4442.9	4395.1	4419.0	4476.4	4557.7	4667.7	4677.3
20°	5394.6	5212.9	4830.3	4509.9	4361.6	4352.1	4419.0	4509.9	4596.0	4725.1	4739.4
22.5°	5423.3	5203.3	4758.6	4399.9	4270.8	4299.4	4423.8	4538.6	4624.7	4763.3	4787.3
25°	5475.9	5217.7	4686.8	4289.9	4175.1	4256.4	4419.0	4557.7	4648.6	4792.0	4830.3
27.5°	5547.7	5251.2	4634.2	4189.4	4079.5	4189.4	4385.5	4552.9	4648.6	4787.3	4830.3
30°	5624.2	5289.4	4572.0	4079.5	3969.5	4093.8	4313.8	4500.3	4610.3	4739.4	4792.0
32.5°	5705.5	5332.5	4519.4	3959.9	3835.5	3964.7	4208.6	4419.0	4538.6	4658.1	4715.5
35°	5815.5	5409.0	4490.7	3864.2	3716.0	3830.8	4074.7	4313.8	4442.9	4552.9	4619.9
37.5°	5949.4	5504.6	4476.4	3768.6	3586.9	3682.5	3931.2	4184.7	4323.4	4414.2	4476.4
40°	6102.4	5624.2	4471.6	3677.7	3457.7	3529.5	3782.9	4036.4	4170.3	4242.1	4294.7
42.5°	6274.6	5758.1	4462.1	3586.9	3328.6	3386.0	3639.5	3888.2	4002.9	4065.1	4112.9
45°	6456.3	5892.0	4442.9	3476.9	3189.9	3256.9	3491.2	3711.2	3830.8	3883.4	3936.0
47.5°	6638.1	6025.9	4404.7	3352.5	3065.6	3127.7	3333.4	3524.7	3620.3	3668.2	3720.8
50°	6815.0	6145.5	4313.8	3209.0	2936.4	2993.8	3151.7	3280.8	3352.5	3390.8	3443.4
52.5°	6972.9	6226.8	4184.7	3041.7	2807.3	2836.0	2941.2	3051.2	3108.6	3113.4	3161.2
55°	7106.8	6269.8	3998.2	2869.5	2668.6	2673.4	2730.8	2816.9	2840.8	2821.7	2855.1
57.5°	7183.3	6245.9	3792.5	2692.5	2525.1	2506.0	2549.1	2592.1	2596.9	2549.1	2582.5
60°	7202.4	6135.9	3524.7	2515.6	2381.7	2329.1	2343.4	2333.8	2324.3	2305.2	2333.8
62.5°	7106.8	5901.6	3228.2	2343.4	2228.6	2147.3	2142.5	2137.8	2152.1	2156.9	2161.7
65°	6757.6	5461.6	2874.3	2166.5	2066.0	1956.0	1951.3	2008.6	2027.8	1999.1	2008.6
67.5°	6083.3	4787.3	2486.9	1960.8	1860.4	1764.7	1803.0	1836.5	1869.9	1860.4	1869.9
70°	5126.8	3931.2	2133.0	1731.3	1635.6	1583.0	1626.0	1654.7	1659.5	1650.0	1659.5
72.5°	4031.6	3070.3	1803.0	1496.9	1410.8	1386.9	1439.5	1463.4	1506.5	1525.6	1530.4
75°	2912.5	2266.9	1477.8	1243.4	1171.7	1171.7	1219.5	1262.6	1300.8	1276.9	1262.6
77.5°	1626.0	1353.4	1061.7	856.1	870.4	937.4	956.5	1004.3	1042.6	1037.8	1028.2
80°	985.2	846.5	717.4	554.8	550.0	602.6	726.9	808.2	827.4	784.3	779.5
82.5°	511.7	444.8	382.6	310.9	344.3	401.7	420.9	506.9	559.5	540.4	564.3
85°	129.1	124.3	138.7	143.5	177.0	196.1	215.2	253.5	167.4	81.3	81.3
87.5°	38.3	38.3	47.8	47.8	62.2	76.5	71.7	71.7	38.3	4.8	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)