

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: P841053

Luminaire Tested: **ARCH4-120-750-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841053
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: ARCH4-120-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21051 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122
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

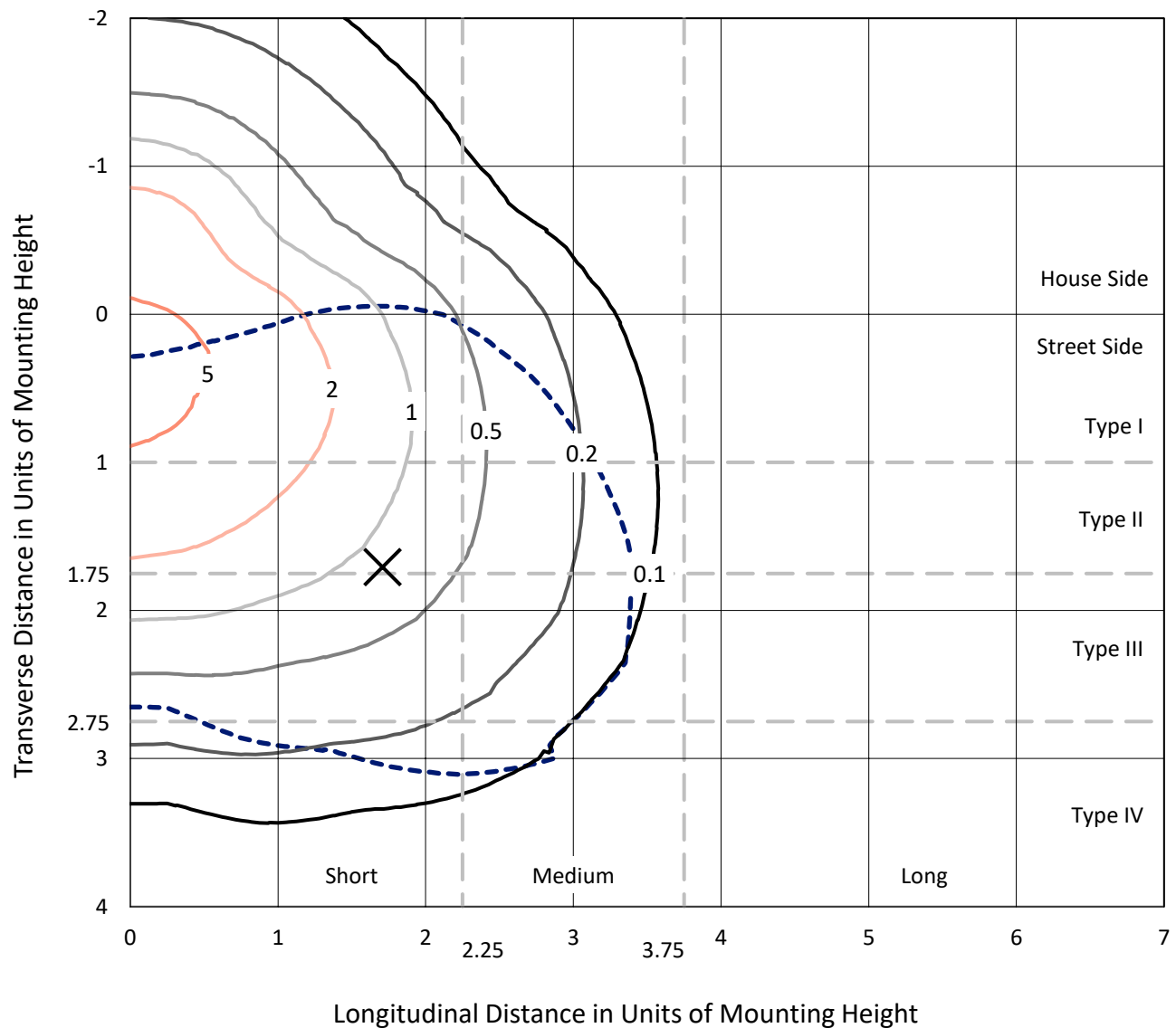


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Iso-Footcandle Lines of Horizontal Illumination

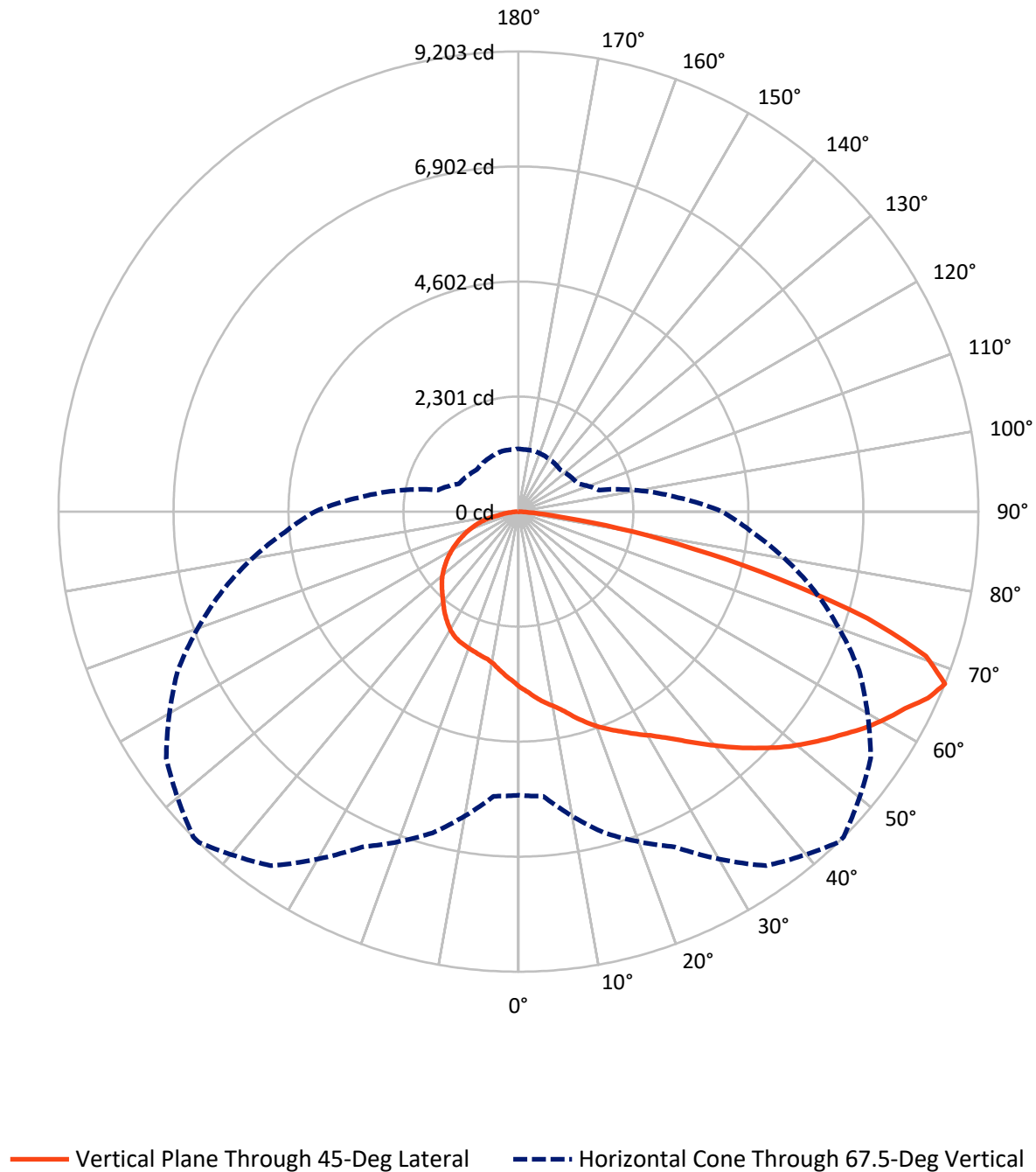
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	5623.8	0.0	5623.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15427.2	0.0	15427.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	21051.0	0.0	21051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.6
10°-20°	1038.4	4.9
20°-30°	1792.4	8.5
30°-40°	2643.2	12.6
40°-50°	3581.0	17.0
50°-60°	4376.8	20.8
60°-70°	4514.1	21.4
70°-80°	2472.5	11.7
80°-90°	296.3	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°	21051.0	100.0
0°-180°	21051.0	100.0

Coefficient of Utilization



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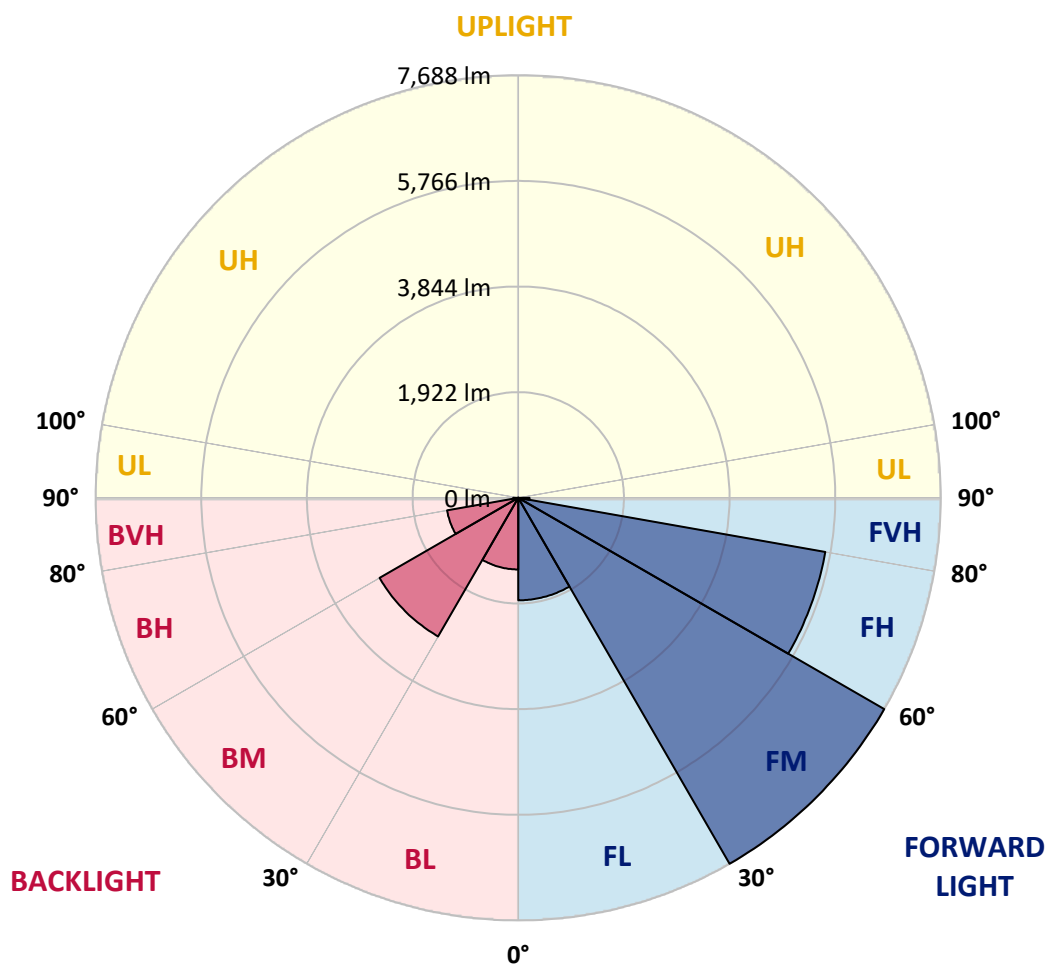
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.6	8.9			
FM	(30°-60°)	7688.0	36.5			
FH	(60°-80°)	5671.4	26.9			G3/7500
FVH	(80°-90°)	204.1	1.0			G2/225
BL	(0°-30°)	1303.4	6.2	B3/2500		
BM	(30°-60°)	2913.0	13.8	B3/5000		
BH	(60°-80°)	1315.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	92.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3664.7	3661.5	3667.9	3645.4	3616.6	3613.4	3613.4	3594.2	3571.8	3526.9	3491.7
5°	3837.7	3831.2	3834.4	3802.4	3764.0	3744.8	3741.6	3699.9	3648.7	3578.2	3514.1
7.5°	3997.8	3991.4	3988.2	3953.0	3895.3	3863.3	3860.1	3799.2	3738.3	3629.4	3536.5
10°	4148.4	4142.0	4135.6	4087.5	4017.0	3969.0	3962.6	3885.7	3808.8	3674.3	3555.8
12.5°	4340.6	4327.8	4321.4	4263.7	4161.2	4109.9	4100.3	3997.8	3901.7	3738.3	3594.2
15°	4542.4	4532.8	4523.2	4468.7	4353.4	4286.1	4270.1	4142.0	4010.6	3821.6	3651.9
17.5°	4693.0	4683.3	4683.3	4635.3	4529.6	4452.7	4439.9	4286.1	4122.8	3898.5	3696.7
20°	4785.9	4776.2	4785.9	4757.0	4676.9	4612.9	4600.1	4430.3	4234.9	3969.0	3735.1
22.5°	4853.1	4843.5	4859.5	4846.7	4789.1	4750.6	4741.0	4574.4	4350.2	4042.7	3773.6
25°	4971.7	4971.7	4971.7	4949.2	4894.8	4882.0	4882.0	4737.8	4497.5	4138.8	3831.2
27.5°	5208.7	5195.9	5179.9	5115.8	5022.9	5019.7	5038.9	4904.4	4667.3	4263.7	3901.7
30°	5557.9	5551.5	5490.6	5356.1	5199.1	5183.1	5195.9	5083.8	4849.9	4395.0	3981.8
32.5°	6009.5	5987.1	5862.2	5660.4	5436.1	5362.5	5388.1	5269.6	5042.1	4529.6	4058.7
35°	6329.9	6336.3	6246.6	6064.0	5798.1	5602.7	5621.9	5477.8	5250.3	4680.1	4154.8
37.5°	6698.3	6720.7	6586.2	6448.4	6201.7	5868.6	5887.8	5692.4	5458.6	4869.1	4257.3
40°	7207.6	7162.8	6935.3	6772.0	6499.7	6147.3	6163.3	5932.7	5698.8	5048.5	4375.8
42.5°	7633.7	7553.6	7278.1	7069.9	6743.1	6442.0	6458.0	6192.1	5942.3	5247.1	4507.2
45°	8245.5	8024.5	7627.3	7524.7	6993.0	6730.3	6746.3	6467.6	6198.5	5458.6	4648.1
47.5°	8601.1	8248.7	7995.6	7941.2	7268.5	7028.2	7047.4	6759.1	6474.0	5698.8	4795.5
50°	8578.7	8351.2	8277.5	8143.0	7511.9	7306.9	7326.1	7060.3	6752.7	5935.9	4936.4
52.5°	8431.3	8472.9	8434.5	8210.3	7755.4	7576.0	7598.4	7358.2	7037.8	6156.9	5067.8
55°	8658.7	8687.6	8613.9	8319.2	8024.5	7845.1	7870.7	7672.1	7319.7	6352.3	5179.9
57.5°	8931.0	8828.5	8754.8	8511.4	8303.2	8136.6	8165.4	7992.4	7563.2	6509.3	5266.4
60°	8918.2	8703.6	8777.3	8524.2	8492.2	8405.7	8431.3	8255.1	7749.0	6624.6	5301.6
62.5°	8261.5	8146.2	8517.8	8431.3	8645.9	8645.9	8678.0	8415.3	7861.1	6672.6	5282.4
65°	7121.1	7127.5	7781.0	8139.8	8828.5	8975.9	9001.5	8514.6	7797.0	6531.7	5103.0
67.5°	5673.2	5714.8	6653.4	7399.8	8645.9	9200.1	9203.3	8604.3	7521.5	6134.5	4686.5
70°	4151.6	4183.6	5292.0	6198.5	7784.2	8703.6	8652.3	8351.2	6922.5	5442.5	4036.3
72.5°	2806.2	2835.0	3975.4	4760.2	6387.5	7412.6	7300.5	7380.6	5900.6	4471.9	3245.0
75°	1886.8	1922.0	2828.6	3405.2	4699.4	5628.3	5378.5	5589.9	4564.8	3386.0	2367.3
77.5°	1188.5	1210.9	1797.1	2232.8	3209.8	3831.2	3581.4	3584.6	2630.0	1822.7	1271.7
80°	756.0	762.4	1089.2	1287.8	1858.0	2303.2	2037.4	1656.1	1185.3	967.4	759.2
82.5°	438.9	429.3	650.3	727.2	884.1	874.5	724.0	685.5	518.9	483.7	387.6
85°	176.2	163.4	285.1	265.9	269.1	285.1	211.4	211.4	169.8	131.3	96.1
87.5°	35.2	35.2	38.4	35.2	35.2	38.4	28.8	28.8	25.6	25.6	25.6
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°	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9	3510.9
2.5°	3485.3	3478.9	3462.9	3421.2	3398.8	3386.0	3366.8	3360.3	3357.1	3360.3	3370.0
5°	3494.9	3472.5	3427.6	3360.3	3315.5	3286.7	3254.6	3241.8	3232.2	3232.2	3241.8
7.5°	3501.3	3466.1	3389.2	3289.9	3225.8	3181.0	3142.5	3126.5	3123.3	3132.9	3136.1
10°	3504.5	3453.2	3344.3	3219.4	3136.1	3078.5	3040.0	3030.4	3040.0	3059.2	3062.4
12.5°	3526.9	3456.5	3318.7	3171.3	3072.0	3014.4	2985.6	2985.6	3011.2	3046.4	3049.6
15°	3565.4	3478.9	3305.9	3132.9	3030.4	2979.1	2969.5	2985.6	3024.0	3078.5	3084.9
17.5°	3594.2	3491.7	3277.1	3081.7	2975.9	2943.9	2959.9	2998.4	3052.8	3126.5	3132.9
20°	3613.4	3491.7	3235.4	3020.8	2921.5	2915.1	2959.9	3020.8	3078.5	3164.9	3174.6
22.5°	3632.6	3485.3	3187.4	2947.1	2860.6	2879.8	2963.1	3040.0	3097.7	3190.6	3206.6
25°	3667.9	3494.9	3139.3	2873.4	2796.6	2851.0	2959.9	3052.8	3113.7	3209.8	3235.4
27.5°	3715.9	3517.3	3104.1	2806.2	2732.5	2806.2	2937.5	3049.6	3113.7	3206.6	3235.4
30°	3767.2	3542.9	3062.4	2732.5	2658.8	2742.1	2889.5	3014.4	3088.1	3174.6	3209.8
32.5°	3821.6	3571.8	3027.2	2652.4	2569.1	2655.6	2819.0	2959.9	3040.0	3120.1	3158.5
35°	3895.3	3623.0	3008.0	2588.3	2489.0	2565.9	2729.3	2889.5	2975.9	3049.6	3094.5
37.5°	3985.0	3687.1	2998.4	2524.3	2402.5	2466.6	2633.2	2803.0	2895.9	2956.7	2998.4
40°	4087.5	3767.2	2995.2	2463.4	2316.0	2364.1	2533.9	2703.7	2793.3	2841.4	2876.6
42.5°	4202.8	3856.9	2988.8	2402.5	2229.6	2268.0	2437.8	2604.4	2681.2	2722.9	2754.9
45°	4324.6	3946.6	2975.9	2328.9	2136.7	2181.5	2338.5	2485.8	2565.9	2601.1	2636.4
47.5°	4446.3	4036.3	2950.3	2245.6	2053.4	2095.0	2232.8	2360.9	2425.0	2457.0	2492.2
50°	4564.8	4116.3	2889.5	2149.5	1966.9	2005.3	2111.0	2197.5	2245.6	2271.2	2306.4
52.5°	4670.5	4170.8	2803.0	2037.4	1880.4	1899.6	1970.1	2043.8	2082.2	2085.4	2117.4
55°	4760.2	4199.6	2678.0	1922.0	1787.5	1790.7	1829.1	1886.8	1902.8	1890.0	1912.4
57.5°	4811.5	4183.6	2540.3	1803.5	1691.4	1678.6	1707.4	1736.2	1739.4	1707.4	1729.8
60°	4824.3	4109.9	2360.9	1685.0	1595.3	1560.0	1569.7	1563.3	1556.8	1544.0	1563.3
62.5°	4760.2	3953.0	2162.3	1569.7	1492.8	1438.3	1435.1	1431.9	1441.5	1444.7	1447.9
65°	4526.4	3658.3	1925.2	1451.1	1383.9	1310.2	1307.0	1345.4	1358.2	1339.0	1345.4
67.5°	4074.7	3206.6	1665.8	1313.4	1246.1	1182.0	1207.7	1230.1	1252.5	1246.1	1252.5
70°	3434.0	2633.2	1428.7	1159.6	1095.6	1060.3	1089.2	1108.4	1111.6	1105.2	1111.6
72.5°	2700.5	2056.6	1207.7	1002.7	945.0	929.0	964.2	980.2	1009.1	1021.9	1025.1
75°	1950.9	1518.4	989.8	832.9	784.8	784.8	816.9	845.7	871.3	855.3	845.7
77.5°	1089.2	906.6	711.2	573.4	583.0	627.9	640.7	672.7	698.3	695.1	688.7
80°	659.9	567.0	480.5	371.6	368.4	403.6	486.9	541.4	554.2	525.4	522.2
82.5°	342.8	297.9	256.3	208.2	230.6	269.1	281.9	339.6	374.8	362.0	378.0
85°	86.5	83.3	92.9	96.1	118.5	131.3	144.2	169.8	112.1	54.5	54.5
87.5°	25.6	25.6	32.0	32.0	41.6	51.3	48.1	48.1	25.6	3.2	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)