

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: P841942

Luminaire Tested: **ARCH4-250-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32239 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
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

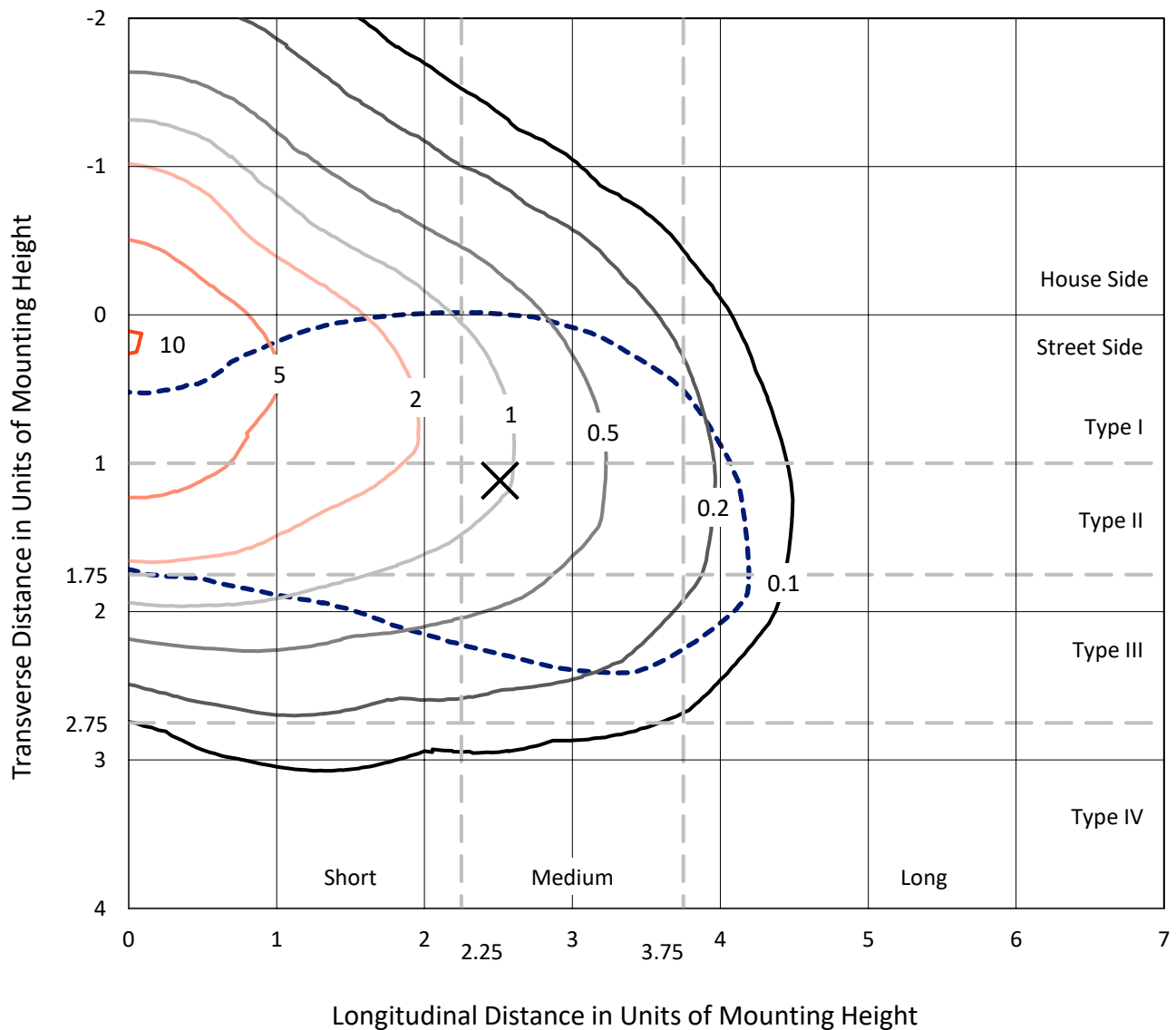


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Iso-Footcandle Lines of Horizontal Illumination

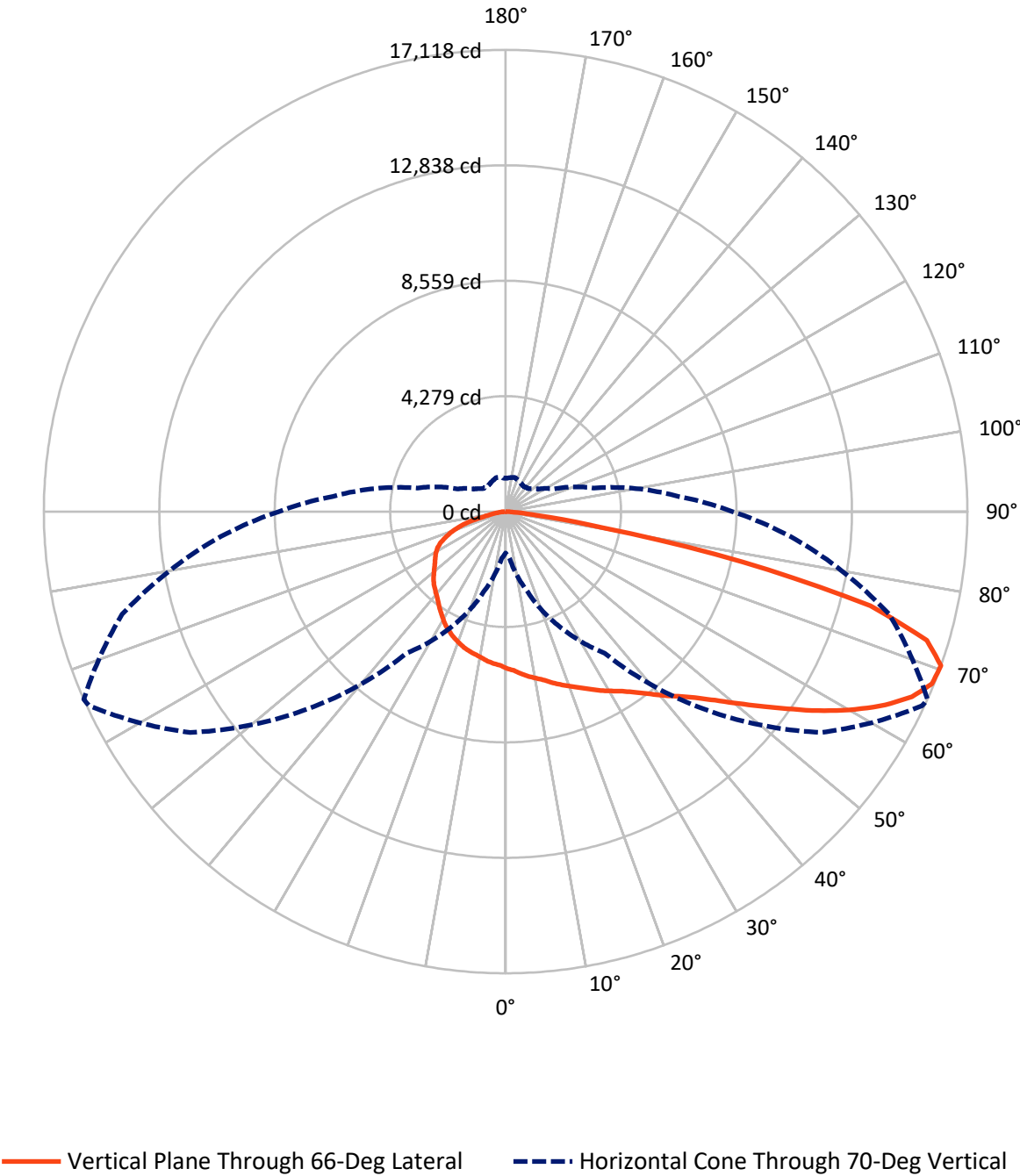
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8542.6	0.0	8542.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23696.4	0.0	23696.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	32239.0	0.0	32239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.1	1.7
10°-20°	1677.1	5.2
20°-30°	2811.3	8.7
30°-40°	4209.5	13.1
40°-50°	5628.0	17.5
50°-60°	6570.9	20.4
60°-70°	6533.8	20.3
70°-80°	3868.1	12.0
80°-90°	381.2	1.2
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°	32239.0	100.0
0°-180°	32239.0	100.0

Coefficient of Utilization



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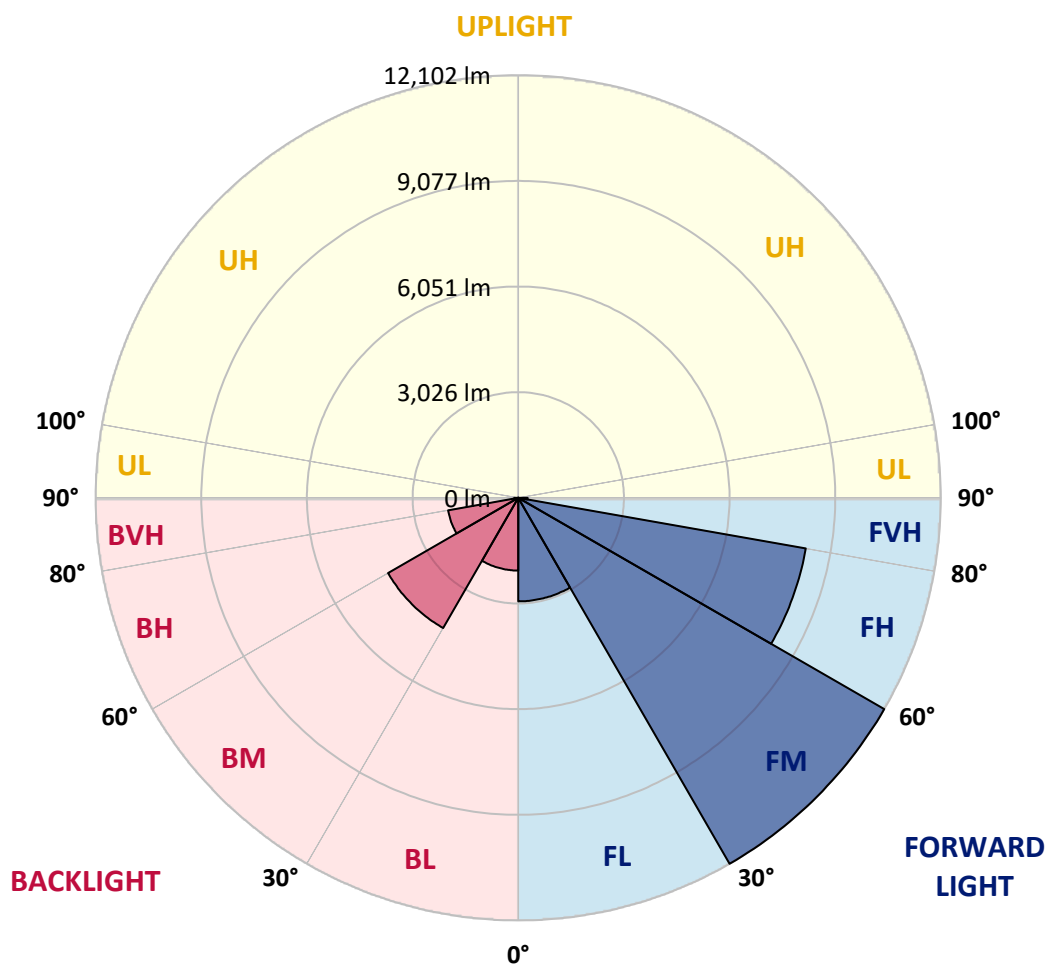
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2965.1	9.2			
FM	(30°-60°)	12102.1	37.5			
FH	(60°-80°)	8361.2	25.9			G4/12000
FVH	(80°-90°)	267.9	0.8			G3/500
BL	(0°-30°)	2082.3	6.5	B3/2500		
BM	(30°-60°)	4306.4	13.4	B3/5000		
BH	(60°-80°)	2040.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	113.3	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4
2.5°	6032.3	6022.8	6018.1	5999.0	5956.3	5975.3	5932.5	5904.0	5899.2	5832.7	5794.6
5°	6279.5	6274.8	6265.2	6236.7	6170.2	6179.7	6108.4	6056.1	6041.8	5937.2	5856.4
7.5°	6488.7	6479.2	6474.4	6436.4	6365.1	6360.3	6274.8	6198.7	6174.9	6032.3	5908.7
10°	6650.3	6636.0	6645.5	6607.5	6531.4	6517.2	6407.9	6308.0	6284.3	6103.6	5932.5
12.5°	6788.1	6778.6	6792.9	6759.6	6697.8	6683.6	6574.2	6445.9	6417.4	6208.2	5984.8
15°	6940.3	6907.0	6935.5	6921.2	6878.5	6873.7	6773.9	6631.3	6593.2	6341.3	6065.6
17.5°	7021.1	7002.1	7035.3	7040.1	7021.1	7054.3	6959.3	6788.1	6754.9	6464.9	6136.9
20°	7078.1	7049.6	7087.6	7116.1	7130.4	7196.9	7120.9	6954.5	6916.5	6583.7	6203.4
22.5°	7273.0	7211.2	7216.0	7235.0	7244.5	7339.6	7292.0	7130.4	7092.4	6731.1	6284.3
25°	7762.6	7639.0	7558.2	7501.2	7434.6	7515.4	7486.9	7330.0	7296.8	6907.0	6384.1
27.5°	8523.2	8366.3	8204.7	8038.3	7776.9	7743.6	7696.1	7553.5	7515.4	7082.9	6483.9
30°	9388.4	9231.5	9041.3	8775.1	8285.5	8028.8	7919.5	7762.6	7719.8	7239.7	6579.0
32.5°	10248.8	10110.9	9920.8	9597.5	8898.7	8375.8	8142.9	7981.3	7938.5	7410.9	6693.1
35°	10919.0	10833.5	10709.9	10305.8	9507.2	8784.7	8466.2	8271.3	8223.7	7681.8	6902.2
37.5°	11460.9	11399.1	11294.6	10871.5	9949.3	9193.5	8836.9	8613.5	8561.2	7976.5	7125.6
40°	12259.5	12097.9	12012.3	11399.1	10334.3	9564.2	9255.3	9022.3	8965.3	8290.3	7306.3
42.5°	12939.3	12820.5	12715.9	11869.7	10700.4	9882.7	9649.8	9435.9	9359.8	8599.3	7501.2
45°	13053.4	13100.9	13048.6	12102.7	11280.3	10196.5	10049.1	9911.3	9840.0	9017.6	7795.9
47.5°	13058.1	13058.1	12749.2	12235.8	11998.1	10548.2	10476.9	10524.5	10448.4	9550.0	8147.7
50°	12715.9	12777.7	12616.1	12269.0	12188.2	10900.0	10999.8	11256.5	11180.5	10115.7	8528.0
52.5°	12007.6	12212.0	12207.2	12216.7	11912.5	11199.5	11551.2	12135.9	12007.6	10752.6	8932.0
55°	10757.4	11166.2	11532.2	11846.0	11674.8	11380.1	12226.3	13072.4	12939.3	11465.7	9340.8
57.5°	9687.8	9949.3	10405.6	11294.6	11394.4	11537.0	12858.5	14051.6	13932.8	12254.8	9768.6
60°	8466.2	8827.4	9283.8	10548.2	11052.1	11741.4	13552.5	15007.1	14893.0	13053.4	10182.2
62.5°	6588.5	7054.3	7967.0	9402.6	10553.0	11869.7	14099.2	15848.5	15796.2	13809.2	10553.0
65°	4592.0	5005.5	6284.3	7995.6	9759.1	11812.7	14536.5	16599.6	16552.0	14427.2	10814.4
67.5°	2681.0	3161.1	4606.2	6436.4	8356.8	11418.1	14679.1	17041.7	17041.7	14802.7	10885.7
70°	1530.7	1754.1	3037.5	4691.8	6407.9	10329.6	14279.8	17036.9	17117.7	14717.1	10591.0
72.5°	1069.6	1169.4	2044.0	3156.4	4344.8	8356.8	13234.0	16214.5	16323.9	13909.0	9583.3
75°	831.9	903.2	1440.3	2153.4	2738.1	5675.8	10947.5	13671.4	13961.3	11855.5	7748.4
77.5°	632.2	684.5	841.4	1345.3	1754.1	3261.0	7225.5	8965.3	8984.3	7258.7	4154.6
80°	461.1	513.4	560.9	822.4	931.7	1525.9	2728.6	3745.8	3641.3	3512.9	2248.5
82.5°	275.7	328.0	342.3	446.8	456.3	651.2	955.5	1207.4	1159.9	1544.9	1055.3
85°	118.8	166.4	175.9	204.4	194.9	266.2	380.3	318.5	285.2	328.0	228.2
87.5°	28.5	47.5	47.5	52.3	42.8	66.6	71.3	52.3	47.5	57.0	57.0
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°	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4	5818.4
2.5°	5785.1	5770.9	5775.6	5694.8	5671.0	5647.3	5633.0	5623.5	5614.0	5628.3	5642.5
5°	5827.9	5794.6	5756.6	5637.8	5590.2	5537.9	5499.9	5466.6	5452.4	5452.4	5466.6
7.5°	5861.2	5804.1	5723.3	5566.5	5480.9	5409.6	5347.8	5305.0	5281.2	5281.2	5295.5
10°	5865.9	5785.1	5656.8	5466.6	5352.6	5248.0	5176.7	5129.1	5095.9	5095.9	5105.4
12.5°	5894.5	5785.1	5618.8	5390.6	5248.0	5119.6	5034.1	4962.8	4948.5	4948.5	4958.0
15°	5942.0	5808.9	5595.0	5324.0	5152.9	5005.5	4910.5	4834.4	4805.9	4824.9	4829.7
17.5°	5984.8	5823.2	5552.2	5238.5	5034.1	4872.4	4767.9	4701.3	4663.3	4706.1	4706.1
20°	6013.3	5823.2	5490.4	5129.1	4905.7	4725.1	4625.3	4544.4	4515.9	4568.2	4573.0
22.5°	6056.1	5818.4	5423.9	5019.8	4767.9	4577.7	4477.9	4416.1	4401.8	4458.9	4477.9
25°	6103.6	5827.9	5352.6	4896.2	4615.7	4430.4	4354.3	4325.8	4335.3	4406.6	4430.4
27.5°	6155.9	5846.9	5281.2	4758.4	4449.4	4283.0	4240.2	4254.5	4292.5	4382.8	4411.3
30°	6203.4	5851.7	5181.4	4596.7	4259.2	4102.4	4121.4	4183.2	4240.2	4330.5	4363.8
32.5°	6265.2	5856.4	5076.8	4420.8	4054.8	3940.7	4026.3	4126.1	4183.2	4268.7	4306.8
35°	6417.4	5937.2	4996.0	4249.7	3864.7	3802.9	3945.5	4073.8	4107.1	4183.2	4216.4
37.5°	6593.2	6070.3	4953.3	4073.8	3679.3	3665.0	3845.7	3974.0	3983.5	4031.1	4064.3
40°	6702.6	6127.4	4905.7	3926.5	3512.9	3522.4	3707.8	3807.6	3788.6	3821.9	3845.7
42.5°	6811.9	6146.4	4805.9	3802.9	3356.0	3365.5	3508.2	3579.5	3589.0	3660.3	3693.5
45°	6997.3	6198.7	4696.6	3688.8	3213.4	3180.2	3265.7	3360.8	3484.4	3622.2	3660.3
47.5°	7244.5	6308.0	4582.5	3550.9	3075.6	2966.2	2999.5	3165.9	3294.2	3422.6	3446.4
50°	7496.4	6417.4	4477.9	3384.6	2937.7	2738.1	2752.3	2904.4	3009.0	3108.9	3123.1
52.5°	7743.6	6512.4	4387.6	3227.7	2780.9	2467.1	2524.2	2681.0	2752.3	2799.9	2814.1
55°	7990.8	6593.2	4306.8	3094.6	2600.2	2253.2	2305.5	2452.9	2524.2	2547.9	2557.4
57.5°	8247.5	6688.3	4245.0	2980.5	2395.8	2063.1	2096.3	2200.9	2267.5	2296.0	2286.5
60°	8461.4	6769.1	4211.7	2861.7	2191.4	1887.2	1877.7	1972.7	2067.8	2096.3	2086.8
62.5°	8627.8	6821.4	4159.4	2709.6	2010.8	1711.3	1663.8	1787.4	1887.2	1906.2	1920.5
65°	8718.1	6826.2	4031.1	2514.7	1825.4	1521.2	1487.9	1611.5	1673.3	1692.3	1692.3
67.5°	8703.8	6750.1	3779.1	2253.2	1654.3	1350.0	1321.5	1397.6	1487.9	1502.1	1487.9
70°	8409.1	6436.4	3375.1	1977.5	1449.8	1197.9	1145.6	1221.7	1307.2	1255.0	1231.2
72.5°	7572.5	5623.5	2780.9	1673.3	1221.7	1007.8	984.0	1060.1	1064.8	1074.3	1050.5
75°	5975.3	4187.9	2082.1	1302.5	988.7	846.1	841.4	827.1	846.1	884.2	855.6
77.5°	3137.4	2091.6	1126.6	798.6	717.8	679.8	646.5	641.7	698.8	722.5	694.0
80°	1701.8	1174.1	646.5	480.1	437.3	442.1	484.9	475.4	537.2	551.4	527.6
82.5°	741.6	556.2	318.5	290.0	290.0	285.2	299.5	332.8	399.3	399.3	318.5
85°	161.6	137.9	123.6	142.6	161.6	161.6	161.6	161.6	114.1	61.8	42.8
87.5°	52.3	52.3	52.3	57.0	61.8	61.8	52.3	38.0	23.8	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)