

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: P841290

Luminaire Tested: **ARCH4-160-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

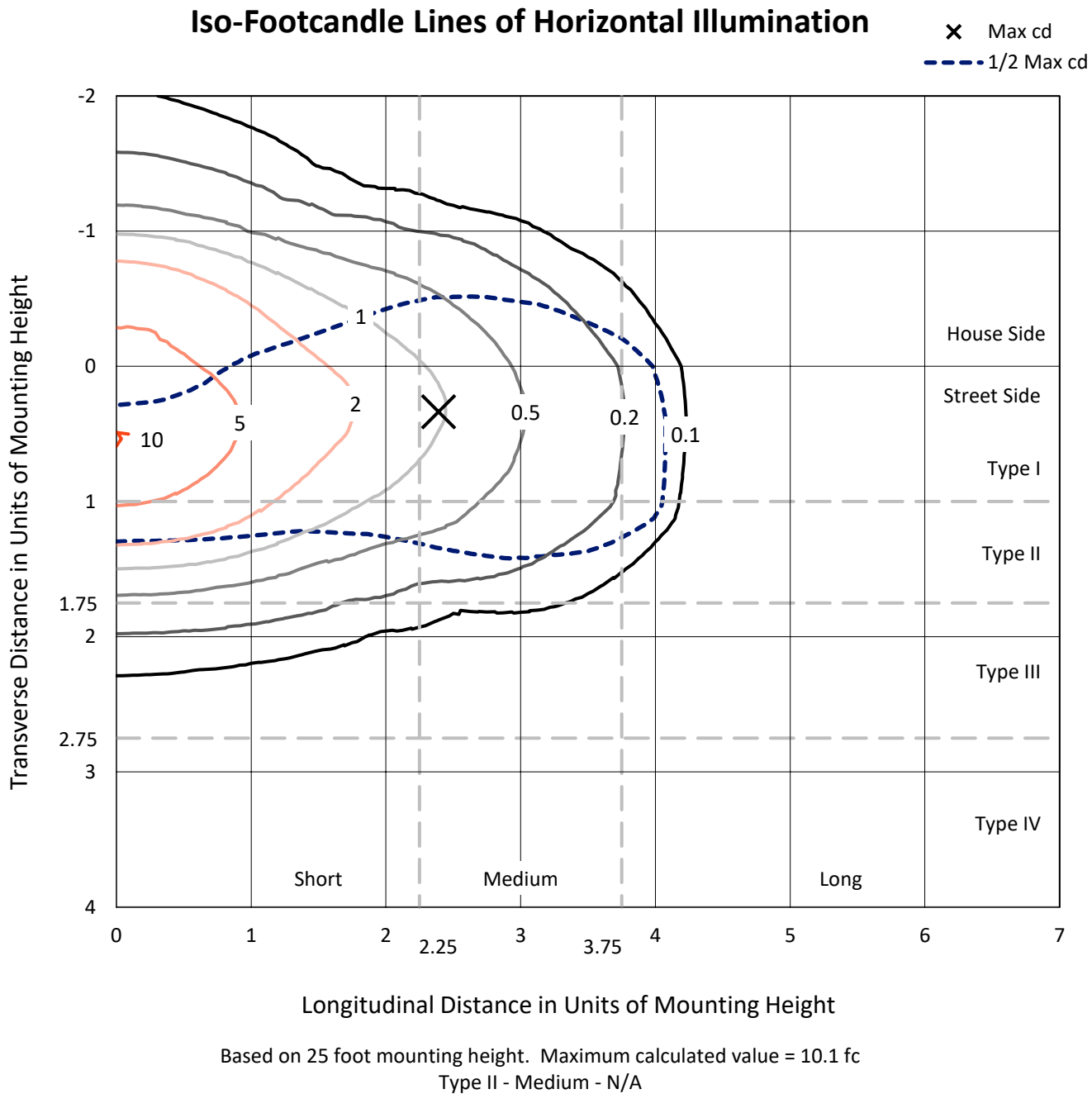
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22837 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

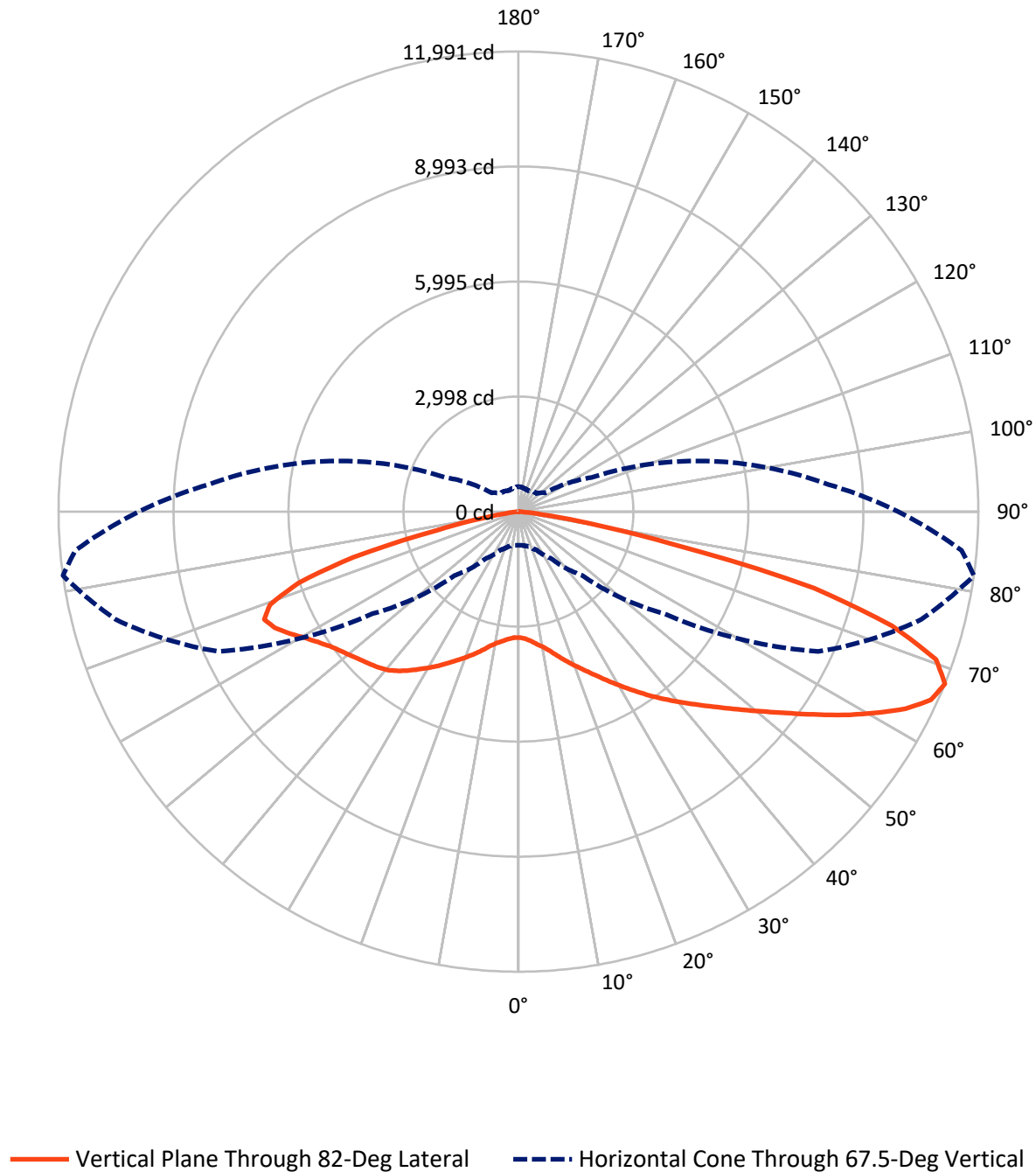


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6954.8	0.0	6954.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15882.2	0.0	15882.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	22837.0	0.0	22837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	1.5
10°-20°	1222.0	5.4
20°-30°	2456.0	10.8
30°-40°	3858.0	16.9
40°-50°	4699.9	20.6
50°-60°	4440.8	19.4
60°-70°	3667.1	16.1
70°-80°	1996.9	8.7
80°-90°	157.0	0.7
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°	22837.0	100.0
0°-180°	22837.0	100.0

Coefficient of Utilization



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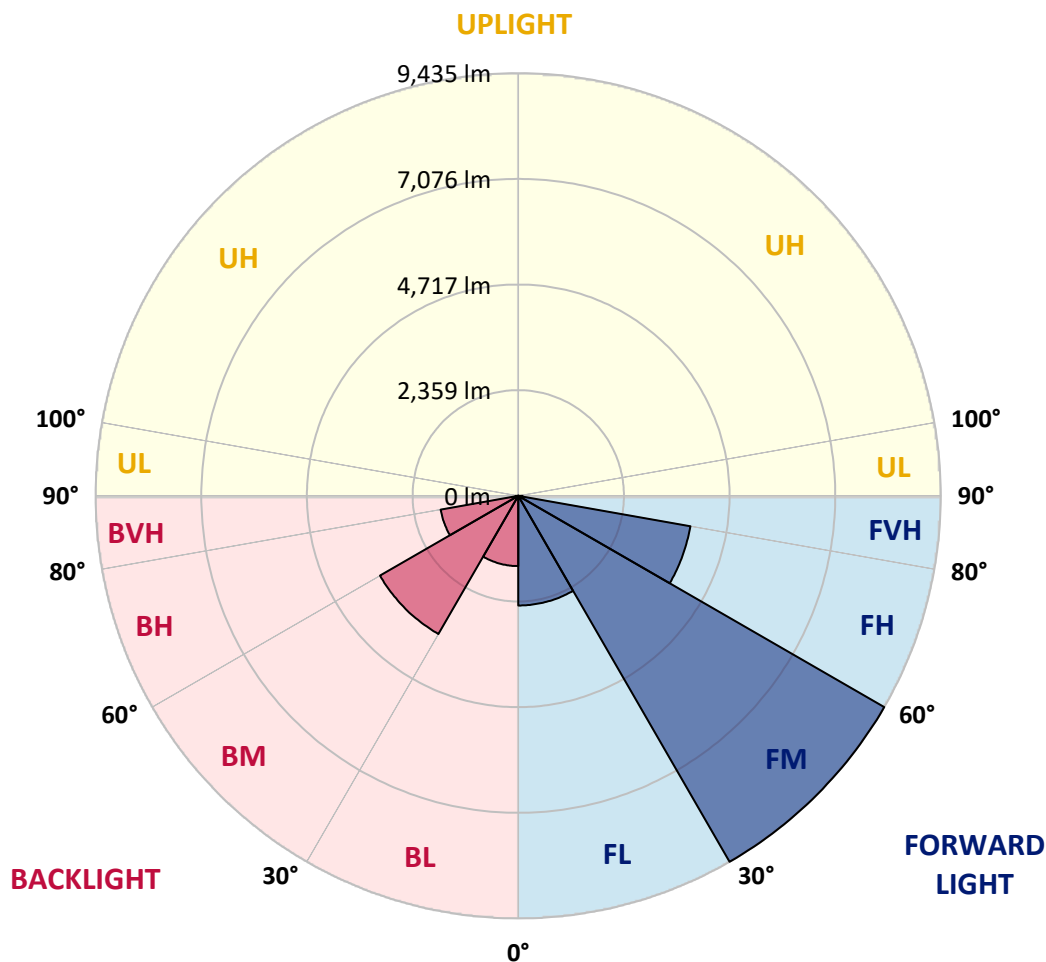
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2449.0	10.7			
FM	(30°-60°)	9434.9	41.3			
FH	(60°-80°)	3903.7	17.1			G2/5000
FVH	(80°-90°)	94.6	0.4			G1/100
BL	(0°-30°)	1568.4	6.9	B3/2500		
BM	(30°-60°)	3563.8	15.6	B3/5000		
BH	(60°-80°)	1760.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	62.4	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8
2.5°	3432.0	3432.0	3458.6	3458.6	3435.3	3398.9	3388.9	3349.1	3312.7	3312.7	3316.0
5°	3760.3	3757.0	3776.9	3750.4	3694.0	3621.0	3571.3	3485.1	3412.1	3388.9	3385.6
7.5°	4161.5	4158.2	4168.2	4125.1	4019.0	3899.6	3800.1	3660.8	3541.5	3491.7	3478.4
10°	4609.2	4605.9	4595.9	4523.0	4380.4	4194.7	4045.5	3853.2	3674.1	3594.5	3577.9
12.5°	5123.2	5116.5	5093.3	4987.2	4791.6	4552.8	4337.3	4088.6	3849.8	3740.4	3703.9
15°	5696.8	5686.9	5643.8	5514.5	5252.5	4950.7	4672.2	4353.9	4062.1	3919.5	3869.7
17.5°	6300.3	6300.3	6234.0	6041.7	5749.9	5375.2	5030.3	4625.8	4284.2	4108.5	4048.8
20°	6913.8	6910.5	6827.6	6595.5	6250.6	5819.5	5381.8	4937.5	4513.0	4300.8	4227.9
22.5°	7560.4	7553.8	7451.0	7185.7	6774.5	6287.1	5776.4	5245.9	4765.0	4509.7	4416.9
25°	8303.2	8293.2	8167.2	7842.3	7354.8	6804.4	6220.8	5607.3	5053.5	4741.8	4632.4
27.5°	9092.4	9079.1	8929.9	8551.9	8018.0	7354.8	6711.5	6025.1	5371.9	5000.5	4877.8
30°	9795.4	9785.4	9622.9	9235.0	8621.5	7901.9	7179.1	6442.9	5706.8	5275.7	5123.2
32.5°	10325.9	10325.9	10180.0	9798.7	9162.0	8425.9	7649.9	6837.5	6055.0	5570.8	5391.8
35°	10647.6	10657.5	10531.5	10226.4	9626.3	8920.0	8137.4	7301.8	6426.3	5885.8	5693.5
37.5°	10694.0	10727.2	10654.2	10448.6	9947.9	9331.1	8614.9	7749.4	6811.0	6204.2	5988.6
40°	10478.5	10501.7	10505.0	10425.4	10080.5	9626.3	9036.0	8223.6	7218.9	6539.1	6290.4
42.5°	10047.4	10064.0	10093.8	10117.0	9984.4	9755.6	9357.7	8664.6	7653.3	6880.6	6588.8
45°	9490.3	9487.0	9536.7	9636.2	9629.6	9682.6	9536.7	9065.9	8104.2	7268.6	6920.4
47.5°	8658.0	8641.4	8817.2	9042.6	9155.4	9404.1	9540.0	9380.9	8595.0	7696.4	7298.4
50°	7354.8	7338.2	7722.9	8253.4	8585.0	8963.1	9357.7	9569.9	9109.0	8177.2	7709.6
52.5°	5769.8	5753.2	6240.6	7169.1	7892.0	8442.5	8989.6	9613.0	9596.4	8714.4	8173.9
55°	4290.9	4277.6	4751.8	5756.5	6927.1	7838.9	8538.6	9500.2	10054.0	9331.1	8737.6
57.5°	3024.2	3017.5	3428.7	4261.0	5686.9	7102.8	8104.2	9281.4	10475.1	10001.0	9374.2
60°	2122.2	2112.3	2410.7	3054.0	4300.8	5992.0	7673.1	8989.6	10790.2	10660.8	10050.7
62.5°	1429.2	1422.5	1634.8	2172.0	3054.0	4612.5	7019.9	8793.9	10969.2	11324.0	10733.8
65°	1084.3	1081.0	1177.2	1472.3	2162.0	3312.7	5982.0	8770.7	10992.4	11821.4	11314.1
67.5°	875.4	878.7	931.8	1100.9	1495.5	2354.3	4639.0	8624.8	10869.7	11990.5	11595.9
70°	716.2	716.2	739.5	852.2	1104.2	1588.3	3239.7	7961.6	10528.2	11549.5	11261.0
72.5°	547.1	550.5	623.4	689.7	832.3	1114.2	2075.8	6588.8	9722.4	10183.3	9964.5
75°	434.4	431.1	474.2	567.0	646.6	795.8	1273.3	4725.3	8273.3	7958.3	7819.0
77.5°	311.7	308.4	341.5	421.1	490.8	563.7	759.4	2384.2	4499.8	4135.0	4032.2
80°	212.2	205.6	235.4	291.8	325.0	331.6	371.4	915.2	1963.1	1850.3	1827.1
82.5°	109.4	109.4	126.0	165.8	169.1	172.4	165.8	295.1	649.9	606.8	580.3
85°	43.1	43.1	46.4	56.4	56.4	59.7	59.7	76.3	69.6	66.3	63.0
87.5°	3.3	3.3	6.6	6.6	9.9	9.9	9.9	13.3	16.6	16.6	16.6
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°	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8	3282.8
2.5°	3309.3	3296.1	3253.0	3243.0	3236.4	3226.4	3229.8	3206.5	3196.6	3199.9	3186.6
5°	3369.0	3345.8	3292.8	3269.5	3262.9	3253.0	3262.9	3246.3	3229.8	3236.4	3229.8
7.5°	3451.9	3418.8	3352.4	3329.2	3325.9	3316.0	3329.2	3316.0	3302.7	3309.3	3296.1
10°	3538.1	3495.0	3422.1	3398.9	3398.9	3395.5	3408.8	3388.9	3375.7	3379.0	3372.3
12.5°	3664.1	3607.8	3528.2	3508.3	3498.3	3508.3	3511.6	3485.1	3461.9	3465.2	3455.2
15°	3816.7	3753.7	3667.5	3637.6	3631.0	3627.7	3614.4	3581.2	3551.4	3548.1	3538.1
17.5°	3982.5	3902.9	3800.1	3770.3	3740.4	3730.5	3697.3	3654.2	3607.8	3607.8	3594.5
20°	4141.6	4052.1	3929.4	3886.3	3843.2	3803.4	3747.0	3677.4	3617.7	3607.8	3594.5
22.5°	4314.1	4208.0	4065.4	4002.4	3926.1	3846.5	3750.4	3657.5	3581.2	3564.7	3554.7
25°	4506.4	4373.8	4204.6	4111.8	3989.1	3866.4	3723.8	3604.5	3514.9	3488.4	3481.8
27.5°	4718.6	4559.5	4353.9	4217.9	4038.8	3846.5	3664.1	3521.6	3412.1	3379.0	3369.0
30°	4934.2	4745.1	4489.8	4290.9	4038.8	3783.5	3554.7	3388.9	3262.9	3216.5	3209.9
32.5°	5149.7	4937.5	4612.5	4330.7	3999.1	3677.4	3412.1	3216.5	3073.9	3017.5	3030.8
35°	5408.3	5149.7	4725.3	4347.2	3932.7	3548.1	3249.6	3020.8	2874.9	2825.2	2835.2
37.5°	5676.9	5361.9	4814.8	4334.0	3839.9	3402.2	3067.3	2845.1	2662.7	2576.5	2586.5
40°	5909.1	5554.2	4877.8	4287.5	3720.5	3236.4	2888.2	2596.4	2344.4	2261.5	2251.5
42.5°	6127.9	5696.8	4910.9	4217.9	3584.6	3044.1	2632.9	2258.2	2006.2	1903.4	1906.7
45°	6356.7	5836.1	4897.7	4125.1	3415.4	2818.6	2304.6	1926.6	1704.4	1611.6	1614.9
47.5°	6618.7	5985.3	4884.4	4025.6	3209.9	2526.8	1989.6	1634.8	1442.4	1376.1	1369.5
50°	6897.2	6151.1	4867.8	3902.9	2981.1	2201.8	1677.9	1362.9	1200.4	1157.3	1147.3
52.5°	7212.2	6330.2	4857.9	3757.0	2705.8	1856.9	1399.3	1124.1	1014.7	984.8	981.5
55°	7590.2	6539.1	4871.2	3581.2	2374.2	1532.0	1163.9	968.3	895.3	878.7	875.4
57.5°	8051.2	6807.7	4910.9	3375.7	2026.1	1250.1	991.5	872.1	825.7	812.4	812.4
60°	8551.9	7112.7	4983.9	3143.5	1677.9	1031.3	878.7	795.8	775.9	792.5	792.5
62.5°	9092.4	7470.9	5113.2	2861.7	1352.9	872.1	789.2	732.8	719.6	752.7	756.0
65°	9593.1	7819.0	5196.1	2523.5	1074.4	756.0	719.6	669.8	676.5	709.6	706.3
67.5°	9901.5	8107.5	5080.1	2099.0	852.2	669.8	646.6	603.5	620.1	646.6	649.9
70°	9712.5	7945.1	4506.4	1585.0	666.5	583.6	567.0	540.5	553.8	586.9	600.2
72.5°	8787.3	7116.1	3505.0	1071.1	537.2	490.8	497.4	484.1	500.7	530.6	560.4
75°	7132.6	5378.5	2351.0	686.4	424.4	417.8	427.8	417.8	424.4	454.3	470.9
77.5°	3723.8	2622.9	1170.5	427.8	315.0	325.0	341.5	344.9	364.8	371.4	378.0
80°	1737.6	1180.5	487.4	238.7	208.9	228.8	262.0	265.3	271.9	281.9	285.2
82.5°	567.0	354.8	225.5	129.3	119.4	129.3	169.1	202.3	205.6	225.5	225.5
85°	59.7	36.5	49.7	53.1	46.4	56.4	76.3	73.0	33.2	19.9	19.9
87.5°	16.6	13.3	16.6	16.6	13.3	13.3	9.9	3.3	0.0	0.0	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)