

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: P841089

Luminaire Tested: **ARCH4-130-727-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841089
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: ARCH4-130-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20769 lumens
Efficiency: N/A
Efficacy: 157.3 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

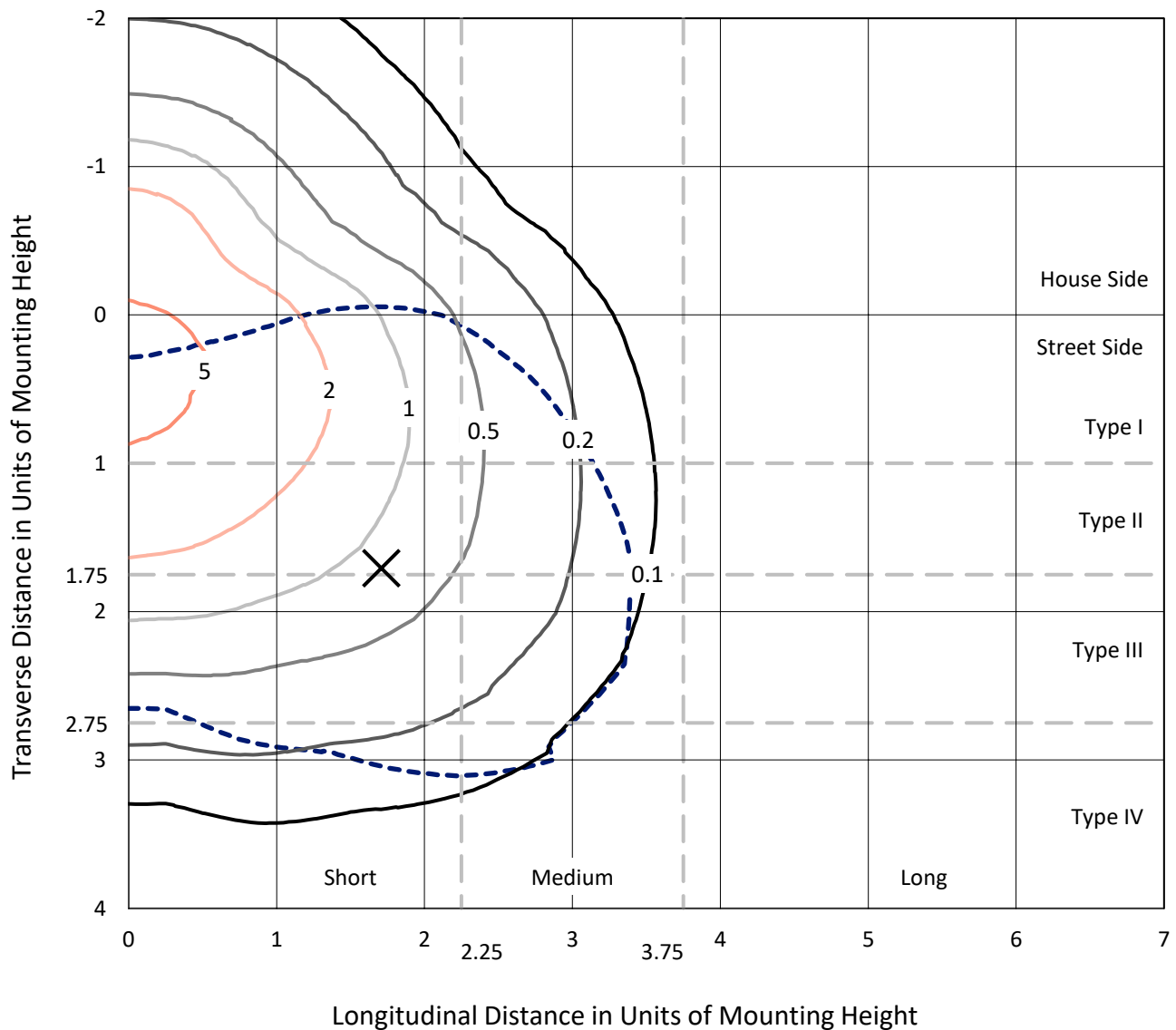
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

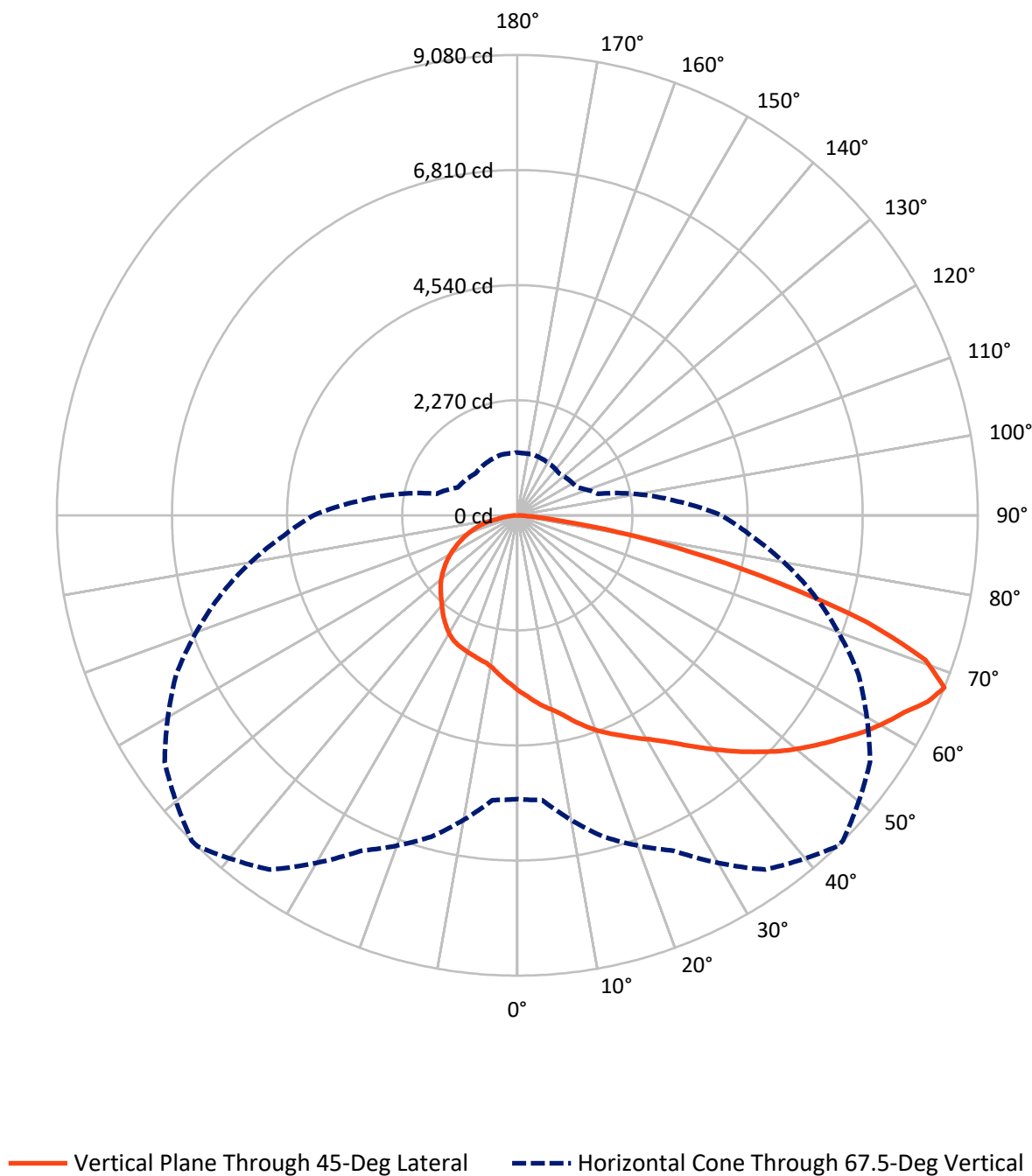


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5548.5	0.0	5548.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	15220.5	0.0	15220.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	20769.0	0.0	20769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	1.6
10°-20°	1024.5	4.9
20°-30°	1768.4	8.5
30°-40°	2607.8	12.6
40°-50°	3533.0	17.0
50°-60°	4318.2	20.8
60°-70°	4453.6	21.4
70°-80°	2439.4	11.7
80°-90°	292.4	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°	20769.0	100.0
0°-180°	20769.0	100.0

Coefficient of Utilization



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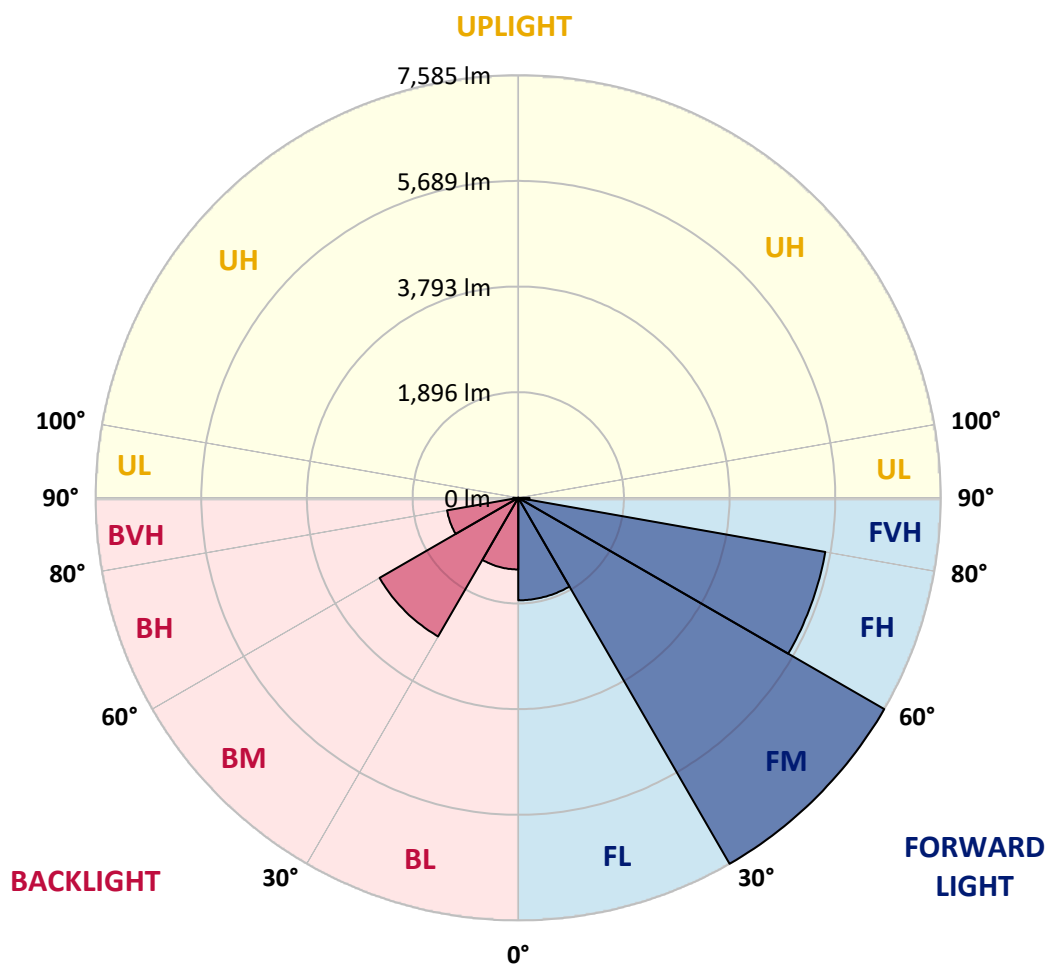
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1838.6	8.9			
FM	(30°-60°)	7585.0	36.5			
FH	(60°-80°)	5595.5	26.9			G3/7500
FVH	(80°-90°)	201.4	1.0			G2/225
BL	(0°-30°)	1285.9	6.2	B3/2500		
BM	(30°-60°)	2874.0	13.8	B3/5000		
BH	(60°-80°)	1297.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	91.0	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°	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9
2.5°	3615.6	3612.4	3618.7	3596.6	3568.2	3565.0	3565.0	3546.0	3523.9	3479.7	3444.9
5°	3786.2	3779.9	3783.1	3751.5	3713.6	3694.6	3691.4	3650.3	3599.8	3530.2	3467.0
7.5°	3944.3	3937.9	3934.8	3900.0	3843.1	3811.5	3808.4	3748.3	3688.3	3580.8	3489.2
10°	4092.8	4086.5	4080.2	4032.8	3963.2	3915.8	3909.5	3833.7	3757.8	3625.1	3508.1
12.5°	4282.4	4269.8	4263.5	4206.6	4105.5	4054.9	4045.4	3944.3	3849.5	3688.3	3546.0
15°	4481.5	4472.1	4462.6	4408.9	4295.1	4228.7	4212.9	4086.5	3956.9	3770.4	3602.9
17.5°	4630.1	4620.6	4620.6	4573.2	4468.9	4393.1	4380.4	4228.7	4067.5	3846.3	3647.2
20°	4721.7	4712.3	4721.7	4693.3	4614.3	4551.1	4538.4	4370.9	4178.1	3915.8	3685.1
22.5°	4788.1	4778.6	4794.4	4781.8	4724.9	4687.0	4677.5	4513.2	4291.9	3988.5	3723.0
25°	4905.0	4905.0	4905.0	4882.9	4829.2	4816.6	4816.6	4674.3	4437.3	4083.3	3779.9
27.5°	5138.9	5126.3	5110.5	5047.3	4955.6	4952.5	4971.4	4838.7	4604.8	4206.6	3849.5
30°	5483.4	5477.1	5417.0	5284.3	5129.4	5113.6	5126.3	5015.7	4785.0	4336.2	3928.5
32.5°	5929.0	5906.9	5783.7	5584.6	5363.3	5290.6	5315.9	5199.0	4974.6	4468.9	4004.3
35°	6245.1	6251.4	6162.9	5982.8	5720.5	5527.7	5546.6	5404.4	5180.0	4617.4	4099.1
37.5°	6608.5	6630.7	6497.9	6362.0	6118.7	5790.0	5808.9	5616.2	5385.4	4803.9	4200.3
40°	7111.1	7066.8	6842.4	6681.2	6412.6	6064.9	6080.7	5853.2	5622.5	4980.9	4317.2
42.5°	7531.4	7452.4	7180.6	6975.2	6652.8	6355.7	6371.5	6109.2	5862.7	5176.9	4446.8
45°	8135.1	7917.0	7525.1	7423.9	6899.3	6640.1	6656.0	6381.0	6115.5	5385.4	4585.8
47.5°	8485.9	8138.2	7888.5	7834.8	7171.1	6934.1	6953.0	6668.6	6387.3	5622.5	4731.2
50°	8463.7	8239.3	8166.7	8033.9	7411.3	7209.0	7228.0	6965.7	6662.3	5856.4	4870.3
52.5°	8318.4	8359.4	8321.5	8100.3	7651.5	7474.5	7496.6	7259.6	6943.6	6074.4	4999.9
55°	8542.8	8571.2	8498.5	8207.7	7917.0	7740.0	7765.3	7569.3	7221.7	6267.2	5110.5
57.5°	8811.4	8710.3	8637.6	8397.4	8191.9	8027.6	8056.0	7885.4	7461.9	6422.1	5195.8
60°	8798.7	8587.0	8659.7	8410.0	8378.4	8293.1	8318.4	8144.5	7645.2	6535.9	5230.6
62.5°	8150.9	8037.1	8403.7	8318.4	8530.1	8530.1	8561.7	8302.6	7755.8	6583.3	5211.6
65°	7025.7	7032.0	7676.8	8030.8	8710.3	8855.6	8880.9	8400.5	7692.6	6444.2	5034.6
67.5°	5597.2	5638.3	6564.3	7300.7	8530.1	9076.9	9080.0	8489.0	7420.8	6052.3	4623.8
70°	4096.0	4127.6	5221.1	6115.5	7679.9	8587.0	8536.4	8239.3	6829.8	5369.6	3982.2
72.5°	2768.6	2797.0	3922.1	4696.5	6302.0	7313.3	7202.7	7281.7	5821.6	4412.0	3201.6
75°	1861.5	1896.3	2790.7	3359.6	4636.4	5552.9	5306.4	5515.0	4503.7	3340.6	2335.6
77.5°	1172.5	1194.7	1773.0	2202.8	3166.8	3779.9	3533.4	3536.6	2594.7	1798.3	1254.7
80°	745.9	752.2	1074.6	1270.5	1833.1	2272.4	2010.1	1634.0	1169.4	954.5	749.0
82.5°	433.0	423.5	641.6	717.4	872.3	862.8	714.3	676.3	512.0	477.2	382.4
85°	173.8	161.2	281.3	262.3	265.5	281.3	208.6	208.6	167.5	129.6	94.8
87.5°	34.8	34.8	37.9	34.8	34.8	37.9	28.4	28.4	25.3	25.3	25.3
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°	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9	3463.9
2.5°	3438.6	3432.3	3416.5	3375.4	3353.3	3340.6	3321.7	3315.3	3312.2	3315.3	3324.8
5°	3448.1	3425.9	3381.7	3315.3	3271.1	3242.6	3211.0	3198.4	3188.9	3188.9	3198.4
7.5°	3454.4	3419.6	3343.8	3245.8	3182.6	3138.3	3100.4	3084.6	3081.5	3090.9	3094.1
10°	3457.6	3407.0	3299.5	3176.3	3094.1	3037.2	2999.3	2989.8	2999.3	3018.2	3021.4
12.5°	3479.7	3410.1	3274.2	3128.9	3030.9	2974.0	2945.6	2945.6	2970.8	3005.6	3008.8
15°	3517.6	3432.3	3261.6	3090.9	2989.8	2939.2	2929.8	2945.6	2983.5	3037.2	3043.5
17.5°	3546.0	3444.9	3233.2	3040.4	2936.1	2904.5	2920.3	2958.2	3011.9	3084.6	3090.9
20°	3565.0	3444.9	3192.1	2980.3	2882.3	2876.0	2920.3	2980.3	3037.2	3122.5	3132.0
22.5°	3584.0	3438.6	3144.7	2907.6	2822.3	2841.3	2923.4	2999.3	3056.2	3147.8	3163.6
25°	3618.7	3448.1	3097.3	2834.9	2759.1	2812.8	2920.3	3011.9	3072.0	3166.8	3192.1
27.5°	3666.1	3470.2	3062.5	2768.6	2695.9	2768.6	2898.2	3008.8	3072.0	3163.6	3192.1
30°	3716.7	3495.5	3021.4	2695.9	2623.2	2705.4	2850.7	2974.0	3046.7	3132.0	3166.8
32.5°	3770.4	3523.9	2986.6	2616.9	2534.7	2620.0	2781.2	2920.3	2999.3	3078.3	3116.2
35°	3843.1	3574.5	2967.7	2553.7	2455.7	2531.5	2692.7	2850.7	2936.1	3008.8	3053.0
37.5°	3931.6	3637.7	2958.2	2490.5	2370.4	2433.6	2597.9	2765.4	2857.1	2917.1	2958.2
40°	4032.8	3716.7	2955.0	2430.4	2285.0	2332.4	2499.9	2667.4	2755.9	2803.3	2838.1
42.5°	4146.5	3805.2	2948.7	2370.4	2199.7	2237.6	2405.1	2569.5	2645.3	2686.4	2718.0
45°	4266.6	3893.7	2936.1	2297.7	2108.0	2152.3	2307.1	2452.5	2531.5	2566.3	2601.1
47.5°	4386.7	3982.2	2910.8	2215.5	2025.9	2066.9	2202.8	2329.3	2392.5	2424.1	2458.8
50°	4503.7	4061.2	2850.7	2120.7	1940.5	1978.5	2082.7	2168.1	2215.5	2240.8	2275.5
52.5°	4608.0	4114.9	2765.4	2010.1	1855.2	1874.2	1943.7	2016.4	2054.3	2057.5	2089.1
55°	4696.5	4143.4	2642.2	1896.3	1763.5	1766.7	1804.6	1861.5	1877.3	1864.7	1886.8
57.5°	4747.0	4127.6	2506.3	1779.3	1668.7	1656.1	1684.5	1713.0	1716.1	1684.5	1706.7
60°	4759.7	4054.9	2329.3	1662.4	1573.9	1539.1	1548.6	1542.3	1536.0	1523.3	1542.3
62.5°	4696.5	3900.0	2133.3	1548.6	1472.8	1419.1	1415.9	1412.7	1422.2	1425.4	1428.5
65°	4465.7	3609.3	1899.4	1431.7	1365.3	1292.6	1289.5	1327.4	1340.0	1321.1	1327.4
67.5°	4020.1	3163.6	1643.4	1295.8	1229.4	1166.2	1191.5	1213.6	1235.7	1229.4	1235.7
70°	3388.0	2597.9	1409.6	1144.1	1080.9	1046.1	1074.6	1093.5	1096.7	1090.4	1096.7
72.5°	2664.3	2029.0	1191.5	989.2	932.3	916.5	951.3	967.1	995.5	1008.2	1011.4
75°	1924.7	1498.1	976.6	821.7	774.3	774.3	805.9	834.4	859.6	843.8	834.4
77.5°	1074.6	894.4	701.6	565.7	575.2	619.5	632.1	663.7	689.0	685.8	679.5
80°	651.1	559.4	474.1	366.6	363.5	398.2	480.4	534.1	546.8	518.3	515.2
82.5°	338.2	293.9	252.8	205.4	227.6	265.5	278.1	335.0	369.8	357.1	372.9
85°	85.3	82.2	91.7	94.8	116.9	129.6	142.2	167.5	110.6	53.7	53.7
87.5°	25.3	25.3	31.6	31.6	41.1	50.6	47.4	47.4	25.3	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)