

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: P836041

Luminaire Tested: **ARCH3-130-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

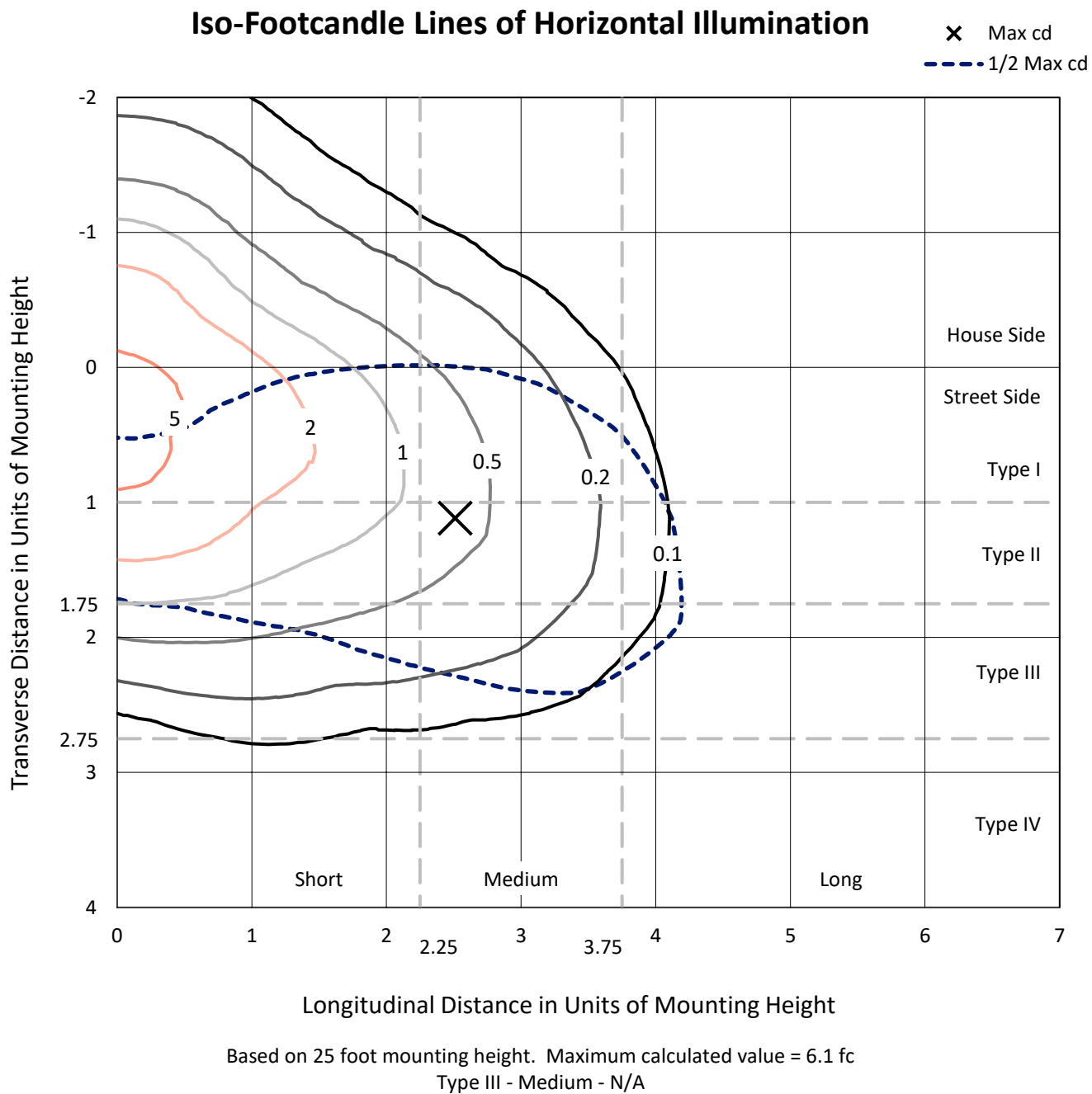
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19388 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

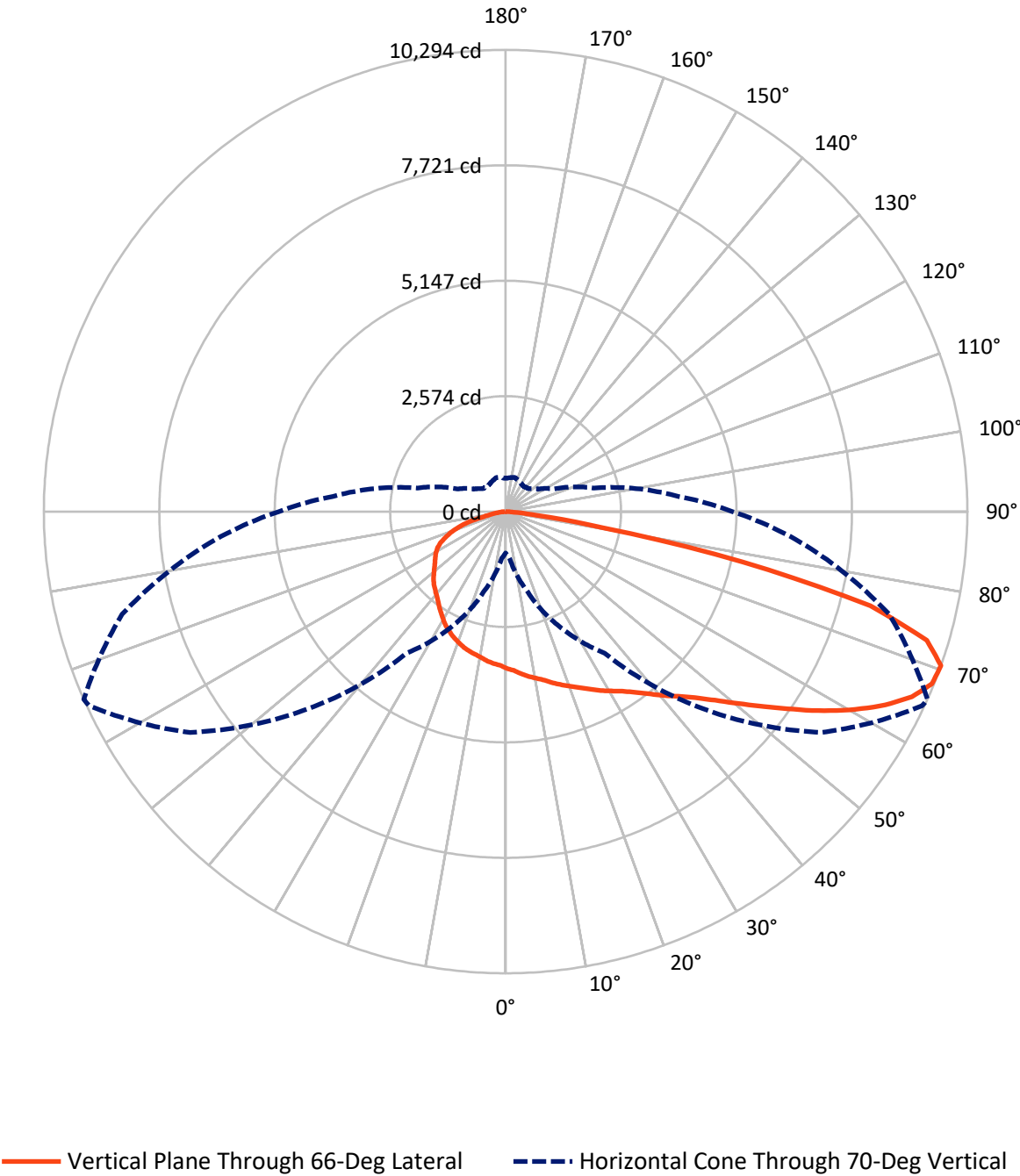


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5137.4	0.0	5137.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14250.6	0.0	14250.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	19388.0	0.0	19388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.7
10°-20°	1008.6	5.2
20°-30°	1690.7	8.7
30°-40°	2531.5	13.1
40°-50°	3384.6	17.5
50°-60°	3951.7	20.4
60°-70°	3929.3	20.3
70°-80°	2326.2	12.0
80°-90°	229.3	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°	19388.0	100.0
0°-180°	19388.0	100.0

Coefficient of Utilization



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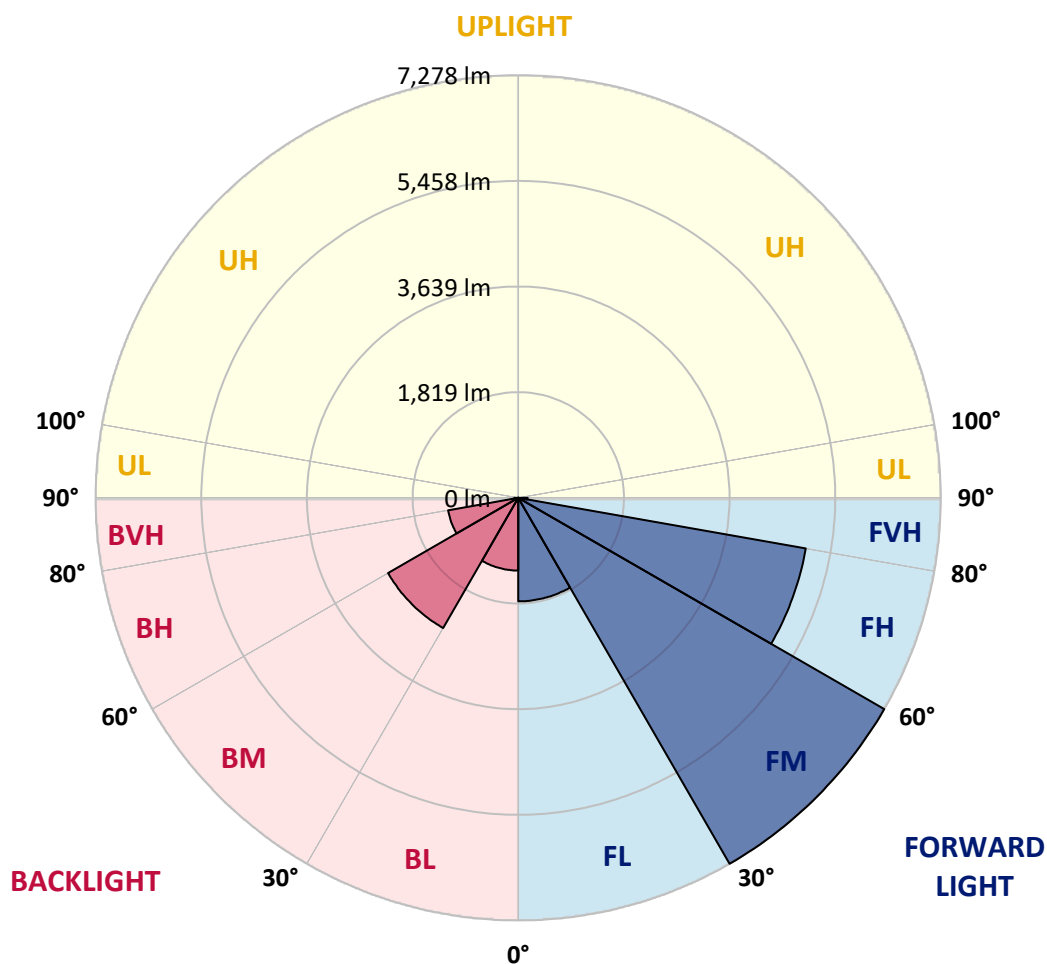
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1783.2	9.2			
FM	(30°-60°)	7278.0	37.5			
FH	(60°-80°)	5028.3	25.9			G3/7500
FVH	(80°-90°)	161.1	0.8			G2/225
BL	(0°-30°)	1252.3	6.5	B3/2500		
BM	(30°-60°)	2589.8	13.4	B3/5000		
BH	(60°-80°)	1227.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	68.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3627.7	3622.0	3619.2	3607.7	3582.0	3593.4	3567.7	3550.5	3547.7	3507.7	3484.8
5°	3776.4	3773.5	3767.8	3750.7	3710.6	3716.4	3673.5	3642.0	3633.5	3570.6	3522.0
7.5°	3902.2	3896.5	3893.6	3870.7	3827.8	3825.0	3773.5	3727.8	3713.5	3627.7	3553.4
10°	3999.4	3990.8	3996.5	3973.6	3927.9	3919.3	3853.6	3793.5	3779.2	3670.6	3567.7
12.5°	4082.3	4076.6	4085.1	4065.1	4028.0	4019.4	3953.6	3876.4	3859.3	3733.5	3599.1
15°	4173.8	4153.7	4170.9	4162.3	4136.6	4133.7	4073.7	3987.9	3965.1	3813.6	3647.7
17.5°	4222.4	4210.9	4230.9	4233.8	4222.4	4242.4	4185.2	4082.3	4062.3	3887.9	3690.6
20°	4256.7	4239.5	4262.4	4279.5	4288.1	4328.1	4282.4	4182.3	4159.5	3959.3	3730.7
22.5°	4373.9	4336.7	4339.6	4351.0	4356.7	4413.9	4385.3	4288.1	4265.2	4048.0	3779.2
25°	4668.3	4594.0	4545.4	4511.1	4471.1	4519.7	4502.5	4408.2	4388.2	4153.7	3839.3
27.5°	5125.7	5031.4	4934.2	4834.1	4676.9	4656.9	4628.3	4542.5	4519.7	4259.5	3899.3
30°	5646.0	5551.7	5437.3	5277.2	4982.8	4828.4	4762.7	4668.3	4642.6	4353.9	3956.5
32.5°	6163.4	6080.5	5966.2	5771.8	5351.6	5037.1	4897.0	4799.8	4774.1	4456.8	4025.1
35°	6566.5	6515.1	6440.7	6197.7	5717.5	5282.9	5091.4	4974.2	4945.6	4619.7	4150.9
37.5°	6892.4	6855.2	6792.4	6537.9	5983.3	5528.8	5314.4	5180.0	5148.6	4797.0	4285.2
40°	7372.7	7275.5	7224.0	6855.2	6214.9	5751.8	5566.0	5425.9	5391.6	4985.6	4393.9
42.5°	7781.5	7710.0	7647.1	7138.3	6435.0	5943.3	5803.2	5674.6	5628.9	5171.5	4511.1
45°	7850.1	7878.7	7847.2	7278.3	6783.8	6132.0	6043.4	5960.5	5917.6	5423.0	4688.3
47.5°	7852.9	7852.9	7667.1	7358.4	7215.4	6343.5	6300.7	6329.2	6283.5	5743.2	4899.9
50°	7647.1	7684.3	7587.1	7378.4	7329.8	6555.1	6615.1	6769.5	6723.7	6083.4	5128.6
52.5°	7221.2	7344.1	7341.2	7347.0	7164.0	6735.2	6946.7	7298.4	7221.2	6466.5	5371.6
55°	6469.3	6715.2	6935.3	7124.0	7021.1	6843.8	7352.7	7861.5	7781.5	6895.3	5617.4
57.5°	5826.1	5983.3	6257.8	6792.4	6852.4	6938.2	7732.9	8450.4	8379.0	7369.8	5874.7
60°	5091.4	5308.7	5583.1	6343.5	6646.6	7061.1	8150.3	9025.0	8956.4	7850.1	6123.4
62.5°	3962.2	4242.4	4791.2	5654.6	6346.4	7138.3	8479.0	9531.0	9499.6	8304.6	6346.4
65°	2761.5	3010.2	3779.2	4808.4	5869.0	7104.0	8742.0	9982.7	9954.1	8676.3	6503.6
67.5°	1612.3	1901.1	2770.1	3870.7	5025.7	6866.7	8827.8	10248.6	10248.6	8902.1	6546.5
70°	920.5	1054.9	1826.7	2821.6	3853.6	6212.0	8587.6	10245.7	10294.3	8850.6	6369.3
72.5°	643.2	703.2	1229.3	1898.2	2612.9	5025.7	7958.7	9751.1	9816.9	8364.7	5763.2
75°	500.3	543.2	866.2	1295.0	1646.6	3413.3	6583.7	8221.7	8396.1	7129.7	4659.7
77.5°	380.2	411.7	506.0	809.0	1054.9	1961.1	4345.3	5391.6	5403.0	4365.3	2498.5
80°	277.3	308.7	337.3	494.6	560.3	917.7	1640.9	2252.7	2189.8	2112.6	1352.2
82.5°	165.8	197.3	205.8	268.7	274.4	391.6	574.6	726.1	697.5	929.1	634.6
85°	71.5	100.1	105.8	122.9	117.2	160.1	228.7	191.5	171.5	197.3	137.2
87.5°	17.2	28.6	28.6	31.4	25.7	40.0	42.9	31.4	28.6	34.3	34.3
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°	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1	3499.1
2.5°	3479.1	3470.5	3473.4	3424.8	3410.5	3396.2	3387.6	3381.9	3376.2	3384.7	3393.3
5°	3504.8	3484.8	3461.9	3390.5	3361.9	3330.4	3307.6	3287.5	3279.0	3279.0	3287.5
7.5°	3524.8	3490.5	3441.9	3347.6	3296.1	3253.2	3216.1	3190.3	3176.1	3176.1	3184.6
10°	3527.7	3479.1	3401.9	3287.5	3218.9	3156.0	3113.2	3084.6	3064.6	3064.6	3070.3
12.5°	3544.8	3479.1	3379.0	3241.8	3156.0	3078.9	3027.4	2984.5	2975.9	2975.9	2981.7
15°	3573.4	3493.4	3364.7	3201.8	3098.9	3010.2	2953.1	2907.3	2890.2	2901.6	2904.5
17.5°	3599.1	3502.0	3339.0	3150.3	3027.4	2930.2	2867.3	2827.3	2804.4	2830.1	2830.1
20°	3616.3	3502.0	3301.8	3084.6	2950.2	2841.6	2781.5	2733.0	2715.8	2747.2	2750.1
22.5°	3642.0	3499.1	3261.8	3018.8	2867.3	2753.0	2692.9	2655.8	2647.2	2681.5	2692.9
25°	3670.6	3504.8	3218.9	2944.5	2775.8	2664.3	2618.6	2601.4	2607.2	2650.0	2664.3
27.5°	3702.1	3516.2	3176.1	2861.6	2675.8	2575.7	2550.0	2558.6	2581.4	2635.8	2652.9
30°	3730.7	3519.1	3116.0	2764.4	2561.4	2467.1	2478.5	2515.7	2550.0	2604.3	2624.3
32.5°	3767.8	3522.0	3053.1	2658.6	2438.5	2369.9	2421.3	2481.4	2515.7	2567.1	2590.0
35°	3859.3	3570.6	3004.5	2555.7	2324.2	2287.0	2372.8	2449.9	2469.9	2515.7	2535.7
37.5°	3965.1	3650.6	2978.8	2449.9	2212.7	2204.1	2312.7	2389.9	2395.6	2424.2	2444.2
40°	4030.8	3684.9	2950.2	2361.3	2112.6	2118.3	2229.8	2289.8	2278.4	2298.4	2312.7
42.5°	4096.6	3696.3	2890.2	2287.0	2018.3	2024.0	2109.7	2152.6	2158.3	2201.2	2221.2
45°	4208.1	3727.8	2824.4	2218.4	1932.5	1912.5	1964.0	2021.1	2095.5	2178.4	2201.2
47.5°	4356.7	3793.5	2755.8	2135.5	1849.6	1783.9	1803.9	1903.9	1981.1	2058.3	2072.6
50°	4508.2	3859.3	2692.9	2035.4	1766.7	1646.6	1655.2	1746.7	1809.6	1869.6	1878.2
52.5°	4656.9	3916.5	2638.6	1941.1	1672.4	1483.7	1518.0	1612.3	1655.2	1683.8	1692.4
55°	4805.5	3965.1	2590.0	1861.0	1563.7	1355.0	1386.5	1475.1	1518.0	1532.3	1538.0
57.5°	4959.9	4022.2	2552.9	1792.4	1440.8	1240.7	1260.7	1323.6	1363.6	1380.8	1375.1
60°	5088.5	4070.8	2532.8	1721.0	1317.9	1134.9	1129.2	1186.4	1243.6	1260.7	1255.0
62.5°	5188.6	4102.3	2501.4	1629.5	1209.2	1029.1	1000.6	1074.9	1134.9	1146.4	1154.9
65°	5242.9	4105.1	2424.2	1512.3	1097.8	914.8	894.8	969.1	1006.3	1017.7	1017.7
67.5°	5234.3	4059.4	2272.7	1355.0	994.8	811.9	794.7	840.5	894.8	903.4	894.8
70°	5057.1	3870.7	2029.7	1189.2	871.9	720.4	689.0	734.7	786.2	754.7	740.4
72.5°	4554.0	3381.9	1672.4	1006.3	734.7	606.1	591.8	637.5	640.4	646.1	631.8
75°	3593.4	2518.5	1252.1	783.3	594.6	508.9	506.0	497.4	508.9	531.7	514.6
77.5°	1886.8	1257.8	677.5	480.3	431.7	408.8	388.8	385.9	420.2	434.5	417.4
80°	1023.4	706.1	388.8	288.7	263.0	265.9	291.6	285.9	323.0	331.6	317.3
82.5°	446.0	334.5	191.5	174.4	174.4	171.5	180.1	200.1	240.1	240.1	191.5
85°	97.2	82.9	74.3	85.8	97.2	97.2	97.2	97.2	68.6	37.2	25.7
87.5°	31.4	31.4	31.4	34.3	37.2	37.2	31.4	22.9	14.3	2.9	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)