

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: P835825

Luminaire Tested: **ARCH3-100-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835825
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: ARCH3-100-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

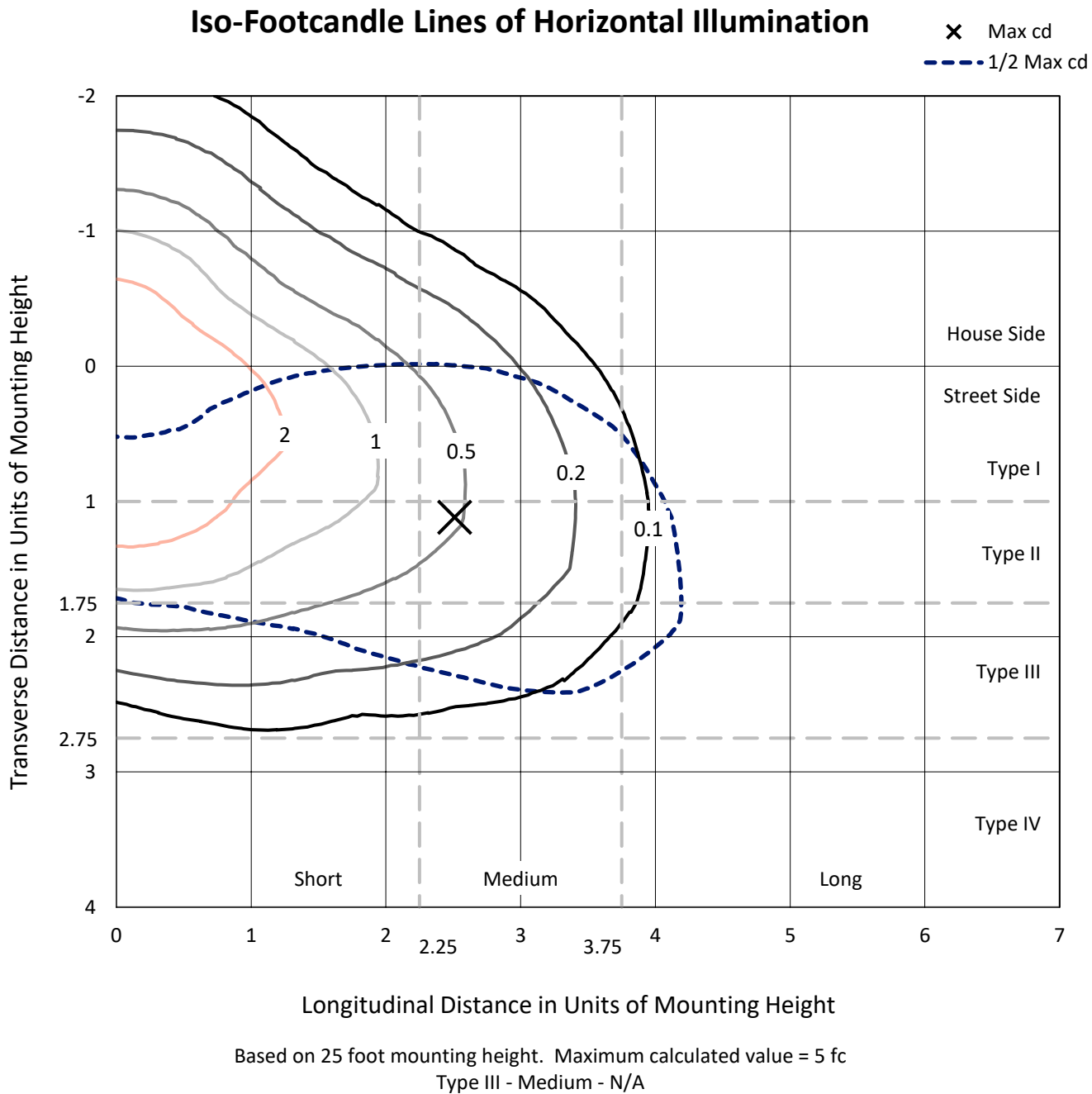
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15824 lumens
Efficiency: N/A
Efficacy: 154.2 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): 102.6
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

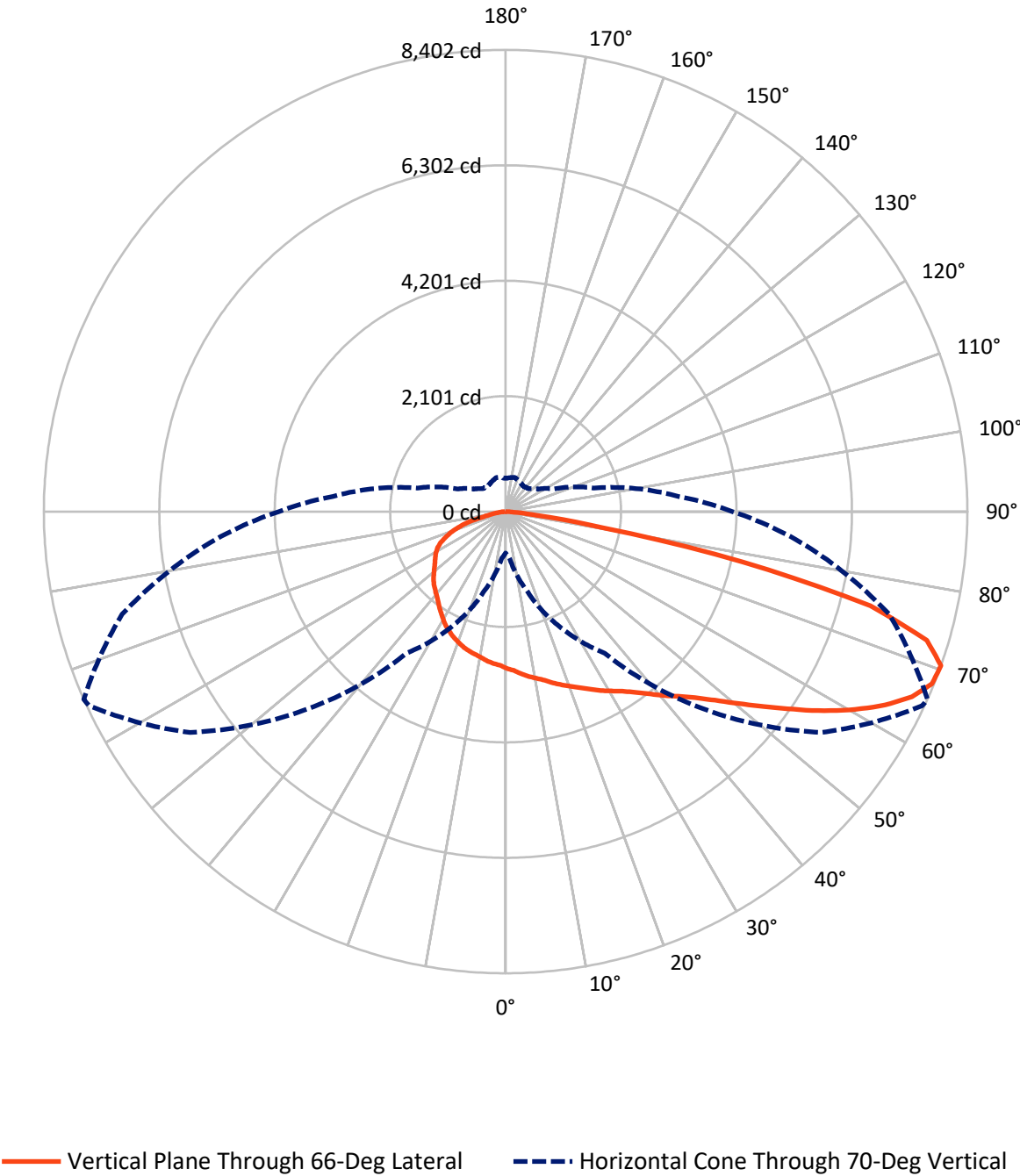


REPORT NUMBER: P835825
CATALOG NUMBER: ARCH3-100-730-U-T3



REPORT NUMBER: P835825
CATALOG NUMBER: ARCH3-100-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P835825

CATALOG NUMBER: ARCH3-100-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4193.0	0.0	4193.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	11631.0	0.0	11631.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	15824.0	0.0	15824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.7
10°-20°	823.2	5.2
20°-30°	1379.9	8.7
30°-40°	2066.1	13.1
40°-50°	2762.4	17.5
50°-60°	3225.2	20.4
60°-70°	3207.0	20.3
70°-80°	1898.6	12.0
80°-90°	187.1	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°	15824.0	100.0
0°-180°	15824.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835825

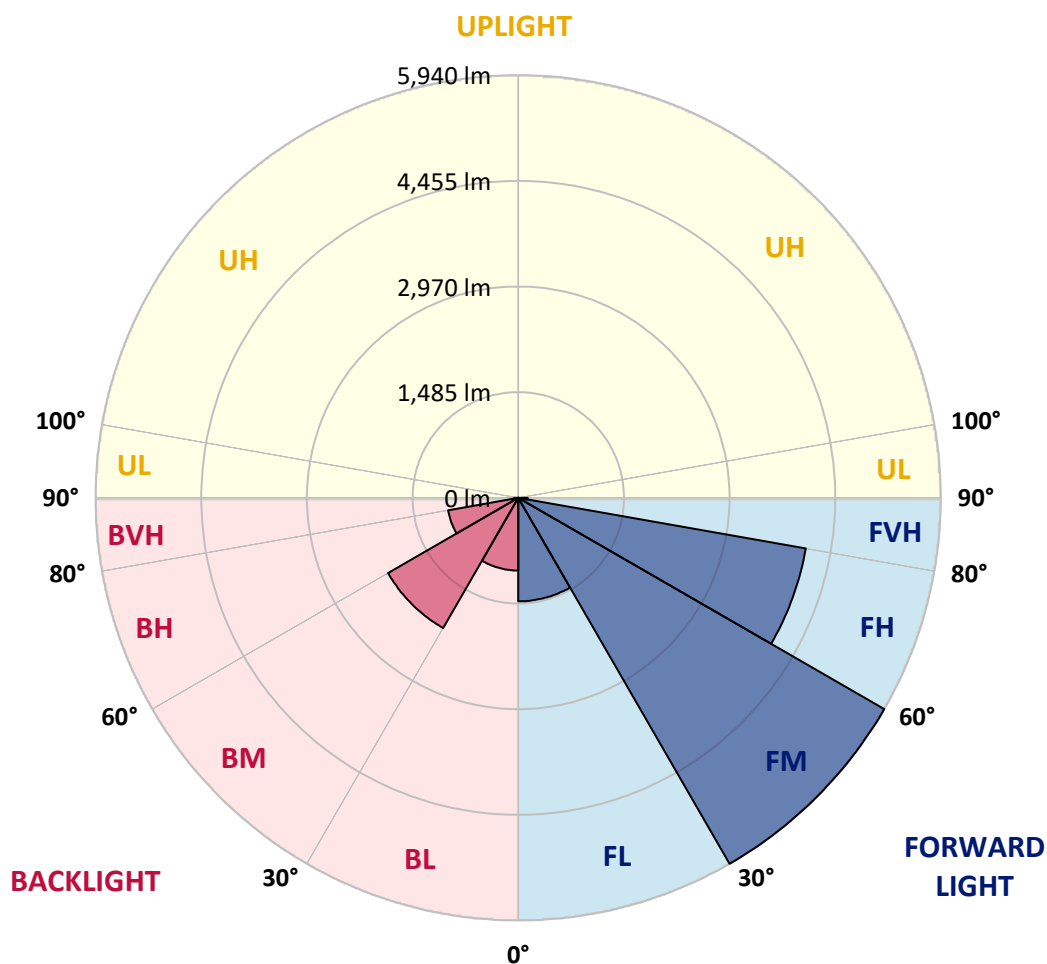
CATALOG NUMBER: ARCH3-100-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.4	9.2			
FM	(30°-60°)	5940.1	37.5			
FH	(60°-80°)	4104.0	25.9			G2/5000
FVH	(80°-90°)	131.5	0.8			G2/225
BL	(0°-30°)	1022.1	6.5	B3/2500		
BM	(30°-60°)	2113.7	13.4	B2/2500		
BH	(60°-80°)	1001.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	55.6	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



REPORT NUMBER: P835825

CATALOG NUMBER: ARCH3-100-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2960.9	2956.2	2953.9	2944.5	2923.5	2932.9	2911.9	2897.9	2895.5	2862.9	2844.2
5°	3082.2	3079.9	3075.2	3061.2	3028.5	3033.2	2998.2	2972.5	2965.5	2914.2	2874.5
7.5°	3184.9	3180.2	3177.9	3159.2	3124.2	3121.9	3079.9	3042.5	3030.9	2960.9	2900.2
10°	3264.2	3257.2	3261.9	3243.2	3205.9	3198.9	3145.2	3096.2	3084.5	2995.9	2911.9
12.5°	3331.9	3327.2	3334.2	3317.9	3287.5	3280.5	3226.9	3163.9	3149.9	3047.2	2937.5
15°	3406.5	3390.2	3404.2	3397.2	3376.2	3373.8	3324.9	3254.9	3236.2	3112.5	2977.2
17.5°	3446.2	3436.8	3453.2	3455.5	3446.2	3462.5	3415.8	3331.9	3315.5	3173.2	3012.2
20°	3474.2	3460.2	3478.8	3492.8	3499.8	3532.5	3495.2	3413.5	3394.8	3231.5	3044.9
22.5°	3569.8	3539.5	3541.8	3551.2	3555.8	3602.5	3579.2	3499.8	3481.2	3303.9	3084.5
25°	3810.2	3749.5	3709.8	3681.8	3649.2	3688.8	3674.8	3597.8	3581.5	3390.2	3133.5
27.5°	4183.5	4106.5	4027.2	3945.5	3817.2	3800.8	3777.5	3707.5	3688.8	3476.5	3182.5
30°	4608.1	4531.1	4437.8	4307.1	4066.8	3940.8	3887.2	3810.2	3789.2	3553.5	3229.2
32.5°	5030.4	4962.8	4869.4	4710.8	4367.8	4111.1	3996.8	3917.5	3896.5	3637.5	3285.2
35°	5359.4	5317.4	5256.8	5058.4	4666.5	4311.8	4155.5	4059.8	4036.5	3770.5	3387.8
37.5°	5625.4	5595.1	5543.8	5336.1	4883.4	4512.5	4337.5	4227.8	4202.1	3915.2	3497.5
40°	6017.4	5938.1	5896.1	5595.1	5072.4	4694.5	4542.8	4428.5	4400.5	4069.2	3586.2
42.5°	6351.0	6292.7	6241.4	5826.1	5252.1	4850.8	4736.5	4631.5	4594.1	4220.8	3681.8
45°	6407.0	6430.4	6404.7	5940.4	5536.8	5004.8	4932.4	4864.8	4829.8	4426.1	3826.5
47.5°	6409.4	6409.4	6257.7	6005.7	5889.1	5177.4	5142.4	5165.8	5128.4	4687.5	3999.2
50°	6241.4	6271.7	6192.4	6022.1	5982.4	5350.1	5399.1	5525.1	5487.8	4965.1	4185.8
52.5°	5893.7	5994.1	5991.7	5996.4	5847.1	5497.1	5669.7	5956.7	5893.7	5277.8	4384.1
55°	5280.1	5480.8	5660.4	5814.4	5730.4	5585.7	6001.1	6416.4	6351.0	5627.7	4584.8
57.5°	4755.1	4883.4	5107.4	5543.8	5592.7	5662.7	6311.4	6897.0	6838.7	6015.1	4794.8
60°	4155.5	4332.8	4556.8	5177.4	5424.8	5763.1	6652.0	7366.0	7310.0	6407.0	4997.8
62.5°	3233.9	3462.5	3910.5	4615.1	5179.8	5826.1	6920.4	7779.0	7753.3	6778.0	5179.8
65°	2253.9	2456.9	3084.5	3924.5	4790.1	5798.1	7135.0	8147.6	8124.3	7081.3	5308.1
67.5°	1315.9	1551.6	2260.9	3159.2	4101.8	5604.4	7205.0	8364.6	8364.6	7265.7	5343.1
70°	751.3	861.0	1490.9	2302.9	3145.2	5070.1	7009.0	8362.3	8402.0	7223.7	5198.4
72.5°	525.0	574.0	1003.3	1549.3	2132.6	4101.8	6495.7	7958.6	8012.3	6827.0	4703.8
75°	408.3	443.3	707.0	1057.0	1343.9	2785.9	5373.4	6710.4	6852.7	5819.1	3803.2
77.5°	310.3	336.0	413.0	660.3	861.0	1600.6	3546.5	4400.5	4409.8	3562.8	2039.2
80°	226.3	252.0	275.3	403.6	457.3	749.0	1339.3	1838.6	1787.3	1724.3	1103.6
82.5°	135.3	161.0	168.0	219.3	224.0	319.7	469.0	592.6	569.3	758.3	518.0
85°	58.3	81.7	86.3	100.3	95.7	130.7	186.7	156.3	140.0	161.0	112.0
87.5°	14.0	23.3	23.3	25.7	21.0	32.7	35.0	25.7	23.3	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P835825

CATALOG NUMBER: ARCH3-100-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2839.5	2832.5	2834.9	2795.2	2783.5	2771.9	2764.9	2760.2	2755.5	2762.5	2769.5
5°	2860.5	2844.2	2825.5	2767.2	2743.9	2718.2	2699.5	2683.2	2676.2	2676.2	2683.2
7.5°	2876.9	2848.9	2809.2	2732.2	2690.2	2655.2	2624.9	2603.9	2592.2	2592.2	2599.2
10°	2879.2	2839.5	2776.5	2683.2	2627.2	2575.9	2540.9	2517.6	2501.2	2501.2	2505.9
12.5°	2893.2	2839.5	2757.9	2645.9	2575.9	2512.9	2470.9	2435.9	2428.9	2428.9	2433.6
15°	2916.5	2851.2	2746.2	2613.2	2529.2	2456.9	2410.2	2372.9	2358.9	2368.2	2370.6
17.5°	2937.5	2858.2	2725.2	2571.2	2470.9	2391.6	2340.2	2307.6	2288.9	2309.9	2309.9
20°	2951.5	2858.2	2694.9	2517.6	2407.9	2319.2	2270.2	2230.6	2216.6	2242.2	2244.6
22.5°	2972.5	2855.9	2662.2	2463.9	2340.2	2246.9	2197.9	2167.6	2160.6	2188.6	2197.9
25°	2995.9	2860.5	2627.2	2403.2	2265.6	2174.6	2137.2	2123.2	2127.9	2162.9	2174.6
27.5°	3021.5	2869.9	2592.2	2335.6	2183.9	2102.2	2081.2	2088.2	2106.9	2151.2	2165.2
30°	3044.9	2872.2	2543.2	2256.2	2090.6	2013.6	2022.9	2053.2	2081.2	2125.6	2141.9
32.5°	3075.2	2874.5	2491.9	2169.9	1990.2	1934.2	1976.2	2025.2	2053.2	2095.2	2113.9
35°	3149.9	2914.2	2452.2	2085.9	1896.9	1866.6	1936.6	1999.6	2015.9	2053.2	2069.6
37.5°	3236.2	2979.5	2431.2	1999.6	1805.9	1798.9	1887.6	1950.6	1955.2	1978.6	1994.9
40°	3289.9	3007.5	2407.9	1927.2	1724.3	1728.9	1819.9	1868.9	1859.6	1875.9	1887.6
42.5°	3343.5	3016.9	2358.9	1866.6	1647.3	1651.9	1721.9	1756.9	1761.6	1796.6	1812.9
45°	3434.5	3042.5	2305.2	1810.6	1577.3	1560.9	1602.9	1649.6	1710.3	1777.9	1796.6
47.5°	3555.8	3096.2	2249.2	1742.9	1509.6	1455.9	1472.3	1553.9	1616.9	1679.9	1691.6
50°	3679.5	3149.9	2197.9	1661.3	1441.9	1343.9	1350.9	1425.6	1476.9	1525.9	1532.9
52.5°	3800.8	3196.5	2153.6	1584.3	1364.9	1210.9	1238.9	1315.9	1350.9	1374.3	1381.3
55°	3922.2	3236.2	2113.9	1518.9	1276.3	1106.0	1131.6	1203.9	1238.9	1250.6	1255.3
57.5°	4048.2	3282.9	2083.6	1462.9	1175.9	1012.6	1029.0	1080.3	1112.9	1126.9	1122.3
60°	4153.1	3322.5	2067.2	1404.6	1075.6	926.3	921.6	968.3	1015.0	1029.0	1024.3
62.5°	4234.8	3348.2	2041.6	1329.9	987.0	840.0	816.6	877.3	926.3	935.6	942.6
65°	4279.1	3350.5	1978.6	1234.3	896.0	746.6	730.3	791.0	821.3	830.6	830.6
67.5°	4272.1	3313.2	1854.9	1106.0	812.0	662.6	648.6	686.0	730.3	737.3	730.3
70°	4127.5	3159.2	1656.6	970.6	711.6	588.0	562.3	599.6	641.6	616.0	604.3
72.5°	3716.8	2760.2	1364.9	821.3	599.6	494.6	483.0	520.3	522.6	527.3	515.6
75°	2932.9	2055.6	1022.0	639.3	485.3	415.3	413.0	406.0	415.3	434.0	420.0
77.5°	1539.9	1026.6	553.0	392.0	352.3	333.7	317.3	315.0	343.0	354.7	340.7
80°	835.3	576.3	317.3	235.7	214.7	217.0	238.0	233.3	263.7	270.7	259.0
82.5°	364.0	273.0	156.3	142.3	142.3	140.0	147.0	163.3	196.0	196.0	156.3
85°	79.3	67.7	60.7	70.0	79.3	79.3	79.3	79.3	56.0	30.3	21.0
87.5°	25.7	25.7	25.7	28.0	30.3	30.3	25.7	18.7	11.7	2.3	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)