

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: P840930

Luminaire Tested: **ARCH4-110-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840930
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: ARCH4-110-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

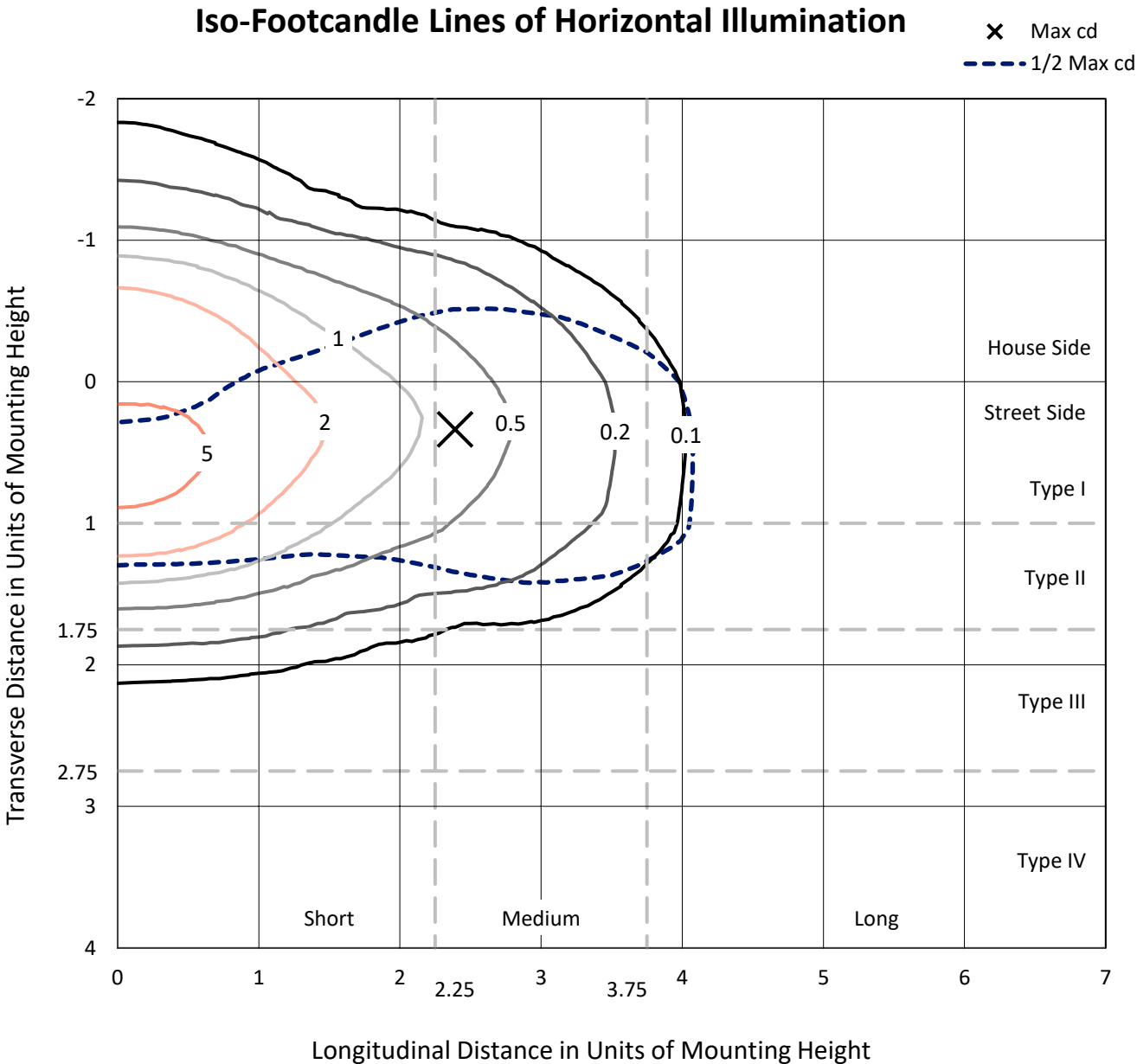
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16752 lumens
Efficiency: N/A
Efficacy: 148.8 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): 112.6
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



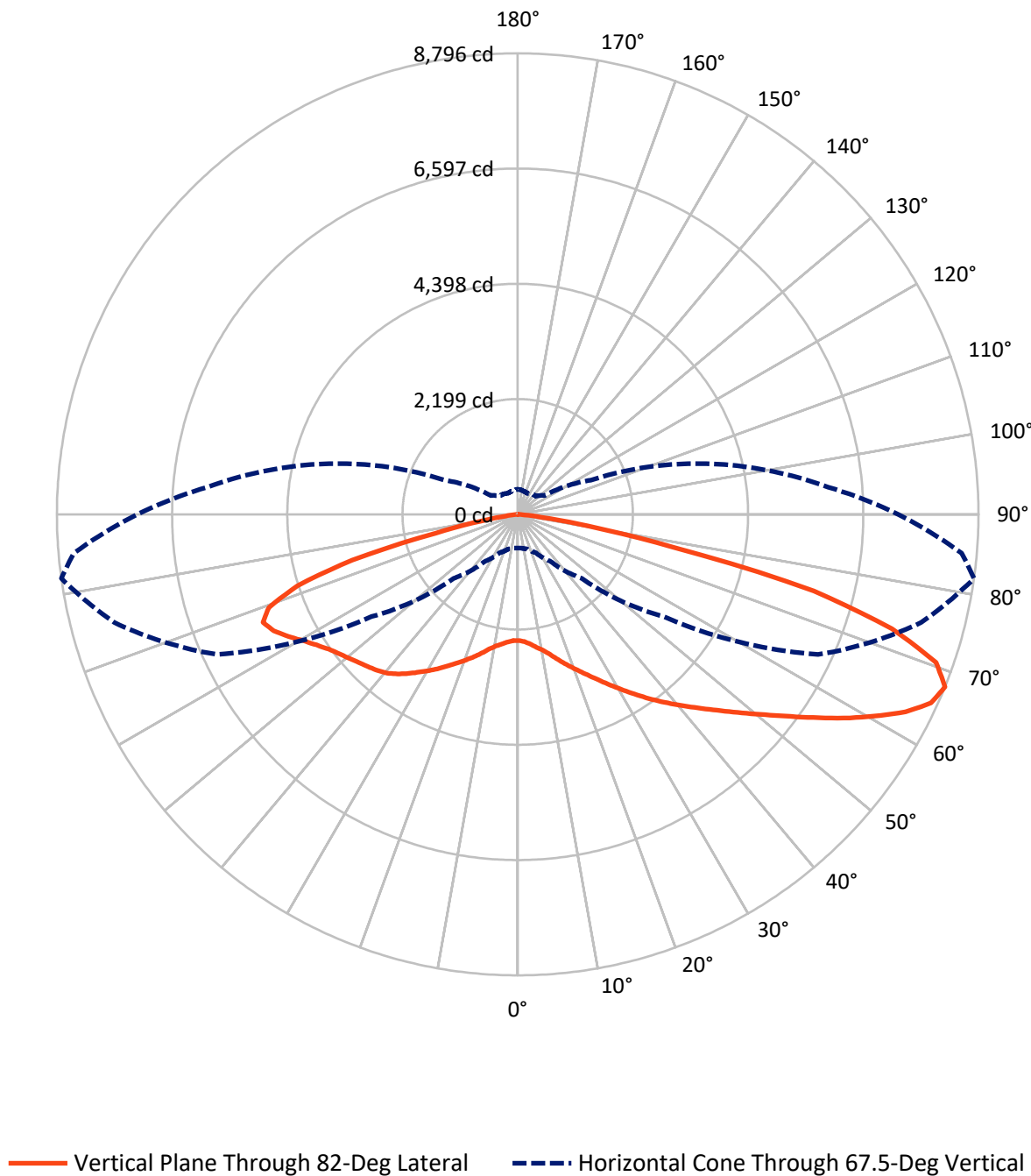
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Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5101.7	0.0	5101.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11650.3	0.0	11650.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	16752.0	0.0	16752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.5
10°-20°	896.4	5.4
20°-30°	1801.6	10.8
30°-40°	2830.1	16.9
40°-50°	3447.6	20.6
50°-60°	3257.5	19.4
60°-70°	2690.0	16.1
70°-80°	1464.8	8.7
80°-90°	115.2	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°	16752.0	100.0
0°-180°	16752.0	100.0

Coefficient of Utilization



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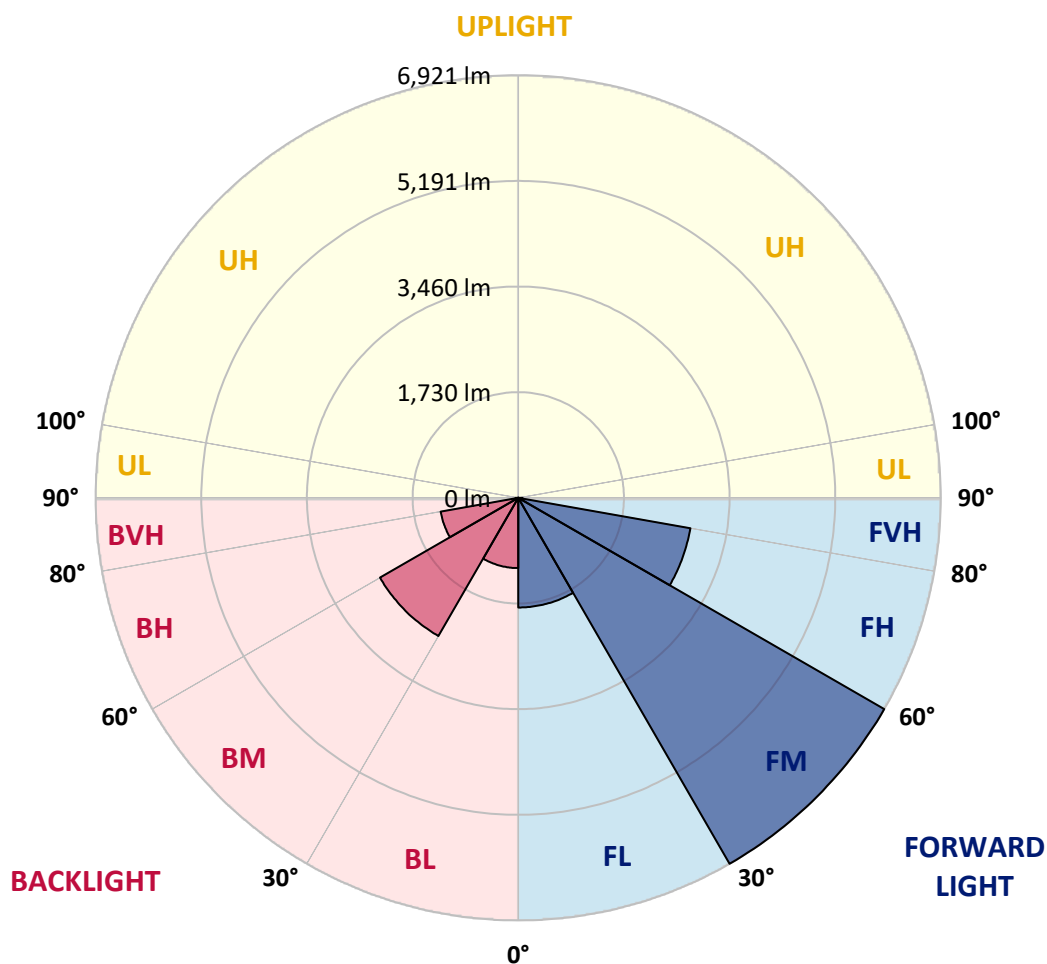
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.4	10.7			
FM	(30°-60°)	6921.0	41.3			
FH	(60°-80°)	2863.5	17.1			G2/5000
FVH	(80°-90°)	69.4	0.4			G1/100
BL	(0°-30°)	1150.5	6.9	B3/2500		
BM	(30°-60°)	2614.2	15.6	B3/5000		
BH	(60°-80°)	1291.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	45.8	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°	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1
2.5°	2517.6	2517.6	2537.0	2537.0	2520.0	2493.2	2485.9	2456.7	2430.0	2430.0	2432.4
5°	2758.4	2755.9	2770.5	2751.1	2709.7	2656.2	2619.7	2556.5	2503.0	2485.9	2483.5
7.5°	3052.7	3050.2	3057.5	3025.9	2948.1	2860.5	2787.5	2685.4	2597.8	2561.3	2551.6
10°	3381.1	3378.6	3371.3	3317.8	3213.2	3077.0	2967.5	2826.5	2695.1	2636.7	2624.6
12.5°	3758.1	3753.2	3736.2	3658.4	3514.8	3339.7	3181.6	2999.2	2824.0	2743.8	2717.0
15°	4178.9	4171.6	4140.0	4045.1	3852.9	3631.6	3427.3	3193.8	2979.7	2875.1	2838.6
17.5°	4621.6	4621.6	4572.9	4431.9	4217.8	3942.9	3690.0	3393.2	3142.7	3013.8	2970.0
20°	5071.6	5069.2	5008.3	4838.1	4585.1	4268.9	3947.8	3621.9	3310.5	3154.8	3101.3
22.5°	5545.9	5541.0	5465.6	5271.0	4969.4	4611.9	4237.3	3848.1	3495.4	3308.1	3240.0
25°	6090.8	6083.5	5991.0	5752.7	5395.1	4991.3	4563.2	4113.2	3707.0	3478.4	3398.1
27.5°	6669.7	6660.0	6550.5	6273.2	5881.6	5395.1	4923.2	4419.7	3940.5	3668.1	3578.1
30°	7185.4	7178.1	7058.9	6774.3	6324.3	5796.4	5266.2	4726.2	4186.2	3870.0	3758.1
32.5°	7574.5	7574.5	7467.5	7187.8	6720.8	6180.8	5611.6	5015.6	4441.6	4086.5	3955.1
35°	7810.5	7817.8	7725.4	7501.6	7061.3	6543.2	5969.1	5356.2	4714.0	4317.5	4176.5
37.5°	7844.5	7868.9	7815.4	7664.5	7297.2	6844.8	6319.4	5684.6	4996.2	4551.0	4392.9
40°	7686.4	7703.5	7705.9	7647.5	7394.5	7061.3	6628.3	6032.4	5295.4	4796.7	4614.3
42.5°	7370.2	7382.4	7404.3	7421.3	7324.0	7156.2	6864.3	6355.9	5614.0	5047.3	4833.2
45°	6961.6	6959.1	6995.6	7068.6	7063.7	7102.7	6995.6	6650.2	5944.8	5331.9	5076.5
47.5°	6351.0	6338.9	6467.8	6633.2	6715.9	6898.3	6998.1	6881.3	6304.8	5645.6	5353.7
50°	5395.1	5382.9	5665.1	6054.3	6297.5	6574.8	6864.3	7020.0	6681.8	5998.3	5655.4
52.5°	4232.4	4220.2	4577.8	5258.9	5789.1	6192.9	6594.3	7051.6	7039.4	6392.4	5995.9
55°	3147.5	3137.8	3485.7	4222.7	5081.3	5750.2	6263.5	6968.9	7375.1	6844.8	6409.4
57.5°	2218.4	2213.5	2515.1	3125.7	4171.6	5210.2	5944.8	6808.3	7684.0	7336.2	6876.4
60°	1556.7	1549.4	1768.4	2240.3	3154.8	4395.4	5628.6	6594.3	7915.1	7820.2	7372.7
62.5°	1048.4	1043.5	1199.2	1593.2	2240.3	3383.5	5149.4	6450.8	8046.4	8306.7	7873.7
65°	795.4	793.0	863.5	1080.0	1585.9	2430.0	4388.1	6433.7	8063.5	8671.6	8299.4
67.5°	642.2	644.6	683.5	807.6	1097.0	1727.0	3402.9	6326.7	7973.5	8795.6	8506.2
70°	525.4	525.4	542.4	625.1	810.0	1165.1	2376.5	5840.2	7722.9	8472.1	8260.5
72.5°	401.3	403.8	457.3	505.9	610.5	817.3	1522.7	4833.2	7131.8	7469.9	7309.4
75°	318.6	316.2	347.8	415.9	474.3	583.8	934.0	3466.2	6068.9	5837.8	5735.6
77.5°	228.6	226.2	250.5	308.9	360.0	413.5	557.0	1748.9	3300.8	3033.2	2957.8
80°	155.7	150.8	172.7	214.1	238.4	243.2	272.4	671.3	1440.0	1357.3	1340.3
82.5°	80.3	80.3	92.4	121.6	124.1	126.5	121.6	216.5	476.8	445.1	425.7
85°	31.6	31.6	34.1	41.4	41.4	43.8	43.8	55.9	51.1	48.6	46.2
87.5°	2.4	2.4	4.9	4.9	7.3	7.3	7.3	9.7	12.2	12.2	12.2
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°	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1	2408.1
2.5°	2427.6	2417.8	2386.2	2378.9	2374.0	2366.7	2369.2	2352.1	2344.8	2347.3	2337.6
5°	2471.3	2454.3	2415.4	2398.4	2393.5	2386.2	2393.5	2381.3	2369.2	2374.0	2369.2
7.5°	2532.1	2507.8	2459.2	2442.1	2439.7	2432.4	2442.1	2432.4	2422.7	2427.6	2417.8
10°	2595.4	2563.8	2510.3	2493.2	2493.2	2490.8	2500.5	2485.9	2476.2	2478.6	2473.8
12.5°	2687.8	2646.5	2588.1	2573.5	2566.2	2573.5	2575.9	2556.5	2539.4	2541.9	2534.6
15°	2799.7	2753.5	2690.3	2668.4	2663.5	2661.1	2651.3	2627.0	2605.1	2602.7	2595.4
17.5°	2921.3	2863.0	2787.5	2765.7	2743.8	2736.5	2712.1	2680.5	2646.5	2646.5	2636.7
20°	3038.1	2972.4	2882.4	2850.8	2819.2	2790.0	2748.6	2697.5	2653.8	2646.5	2636.7
22.5°	3164.6	3086.7	2982.1	2935.9	2880.0	2821.6	2751.1	2683.0	2627.0	2614.8	2607.5
25°	3305.7	3208.4	3084.3	3016.2	2926.2	2836.2	2731.6	2644.0	2578.4	2558.9	2554.0
27.5°	3461.3	3344.6	3193.8	3094.0	2962.7	2821.6	2687.8	2583.2	2503.0	2478.6	2471.3
30°	3619.4	3480.8	3293.5	3147.5	2962.7	2775.4	2607.5	2485.9	2393.5	2359.4	2354.6
32.5°	3777.5	3621.9	3383.5	3176.7	2933.5	2697.5	2503.0	2359.4	2254.8	2213.5	2223.2
35°	3967.3	3777.5	3466.2	3188.9	2884.8	2602.7	2383.8	2215.9	2108.9	2072.4	2079.7
37.5°	4164.3	3933.2	3531.9	3179.2	2816.7	2495.7	2250.0	2087.0	1953.2	1890.0	1897.3
40°	4334.6	4074.3	3578.1	3145.1	2729.2	2374.0	2118.6	1904.6	1719.7	1658.9	1651.6
42.5°	4495.1	4178.9	3602.4	3094.0	2629.4	2233.0	1931.3	1656.5	1471.6	1396.2	1398.6
45°	4662.9	4281.1	3592.7	3025.9	2505.4	2067.6	1690.5	1413.2	1250.3	1182.2	1184.6
47.5°	4855.1	4390.5	3582.9	2953.0	2354.6	1853.5	1459.4	1199.2	1058.1	1009.5	1004.6
50°	5059.4	4512.1	3570.8	2863.0	2186.7	1615.1	1230.8	999.7	880.5	848.9	841.6
52.5°	5290.5	4643.5	3563.5	2755.9	1984.9	1362.2	1026.5	824.6	744.3	722.4	720.0
55°	5567.8	4796.7	3573.2	2627.0	1741.6	1123.8	853.8	710.3	656.8	644.6	642.2
57.5°	5905.9	4993.7	3602.4	2476.2	1486.2	917.0	727.3	639.7	605.7	595.9	595.9
60°	6273.2	5217.5	3655.9	2305.9	1230.8	756.5	644.6	583.8	569.2	581.3	581.3
62.5°	6669.7	5480.2	3750.8	2099.2	992.4	639.7	578.9	537.6	527.8	552.2	554.6
65°	7037.0	5735.6	3811.6	1851.1	788.1	554.6	527.8	491.3	496.2	520.5	518.1
67.5°	7263.2	5947.3	3726.5	1539.7	625.1	491.3	474.3	442.7	454.9	474.3	476.8
70°	7124.5	5828.1	3305.7	1162.7	488.9	428.1	415.9	396.5	406.2	430.5	440.3
72.5°	6445.9	5220.0	2571.1	785.7	394.1	360.0	364.9	355.1	367.3	389.2	411.1
75°	5232.1	3945.4	1724.6	503.5	311.3	306.5	313.8	306.5	311.3	333.2	345.4
77.5°	2731.6	1924.0	858.6	313.8	231.1	238.4	250.5	253.0	267.6	272.4	277.3
80°	1274.6	865.9	357.6	175.1	153.2	167.8	192.2	194.6	199.5	206.8	209.2
82.5°	415.9	260.3	165.4	94.9	87.6	94.9	124.1	148.4	150.8	165.4	165.4
85°	43.8	26.8	36.5	38.9	34.1	41.4	55.9	53.5	24.3	14.6	14.6
87.5°	12.2	9.7	12.2	12.2	9.7	9.7	7.3	2.4	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)