

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: P842752

Luminaire Tested: **ARCH4-90-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

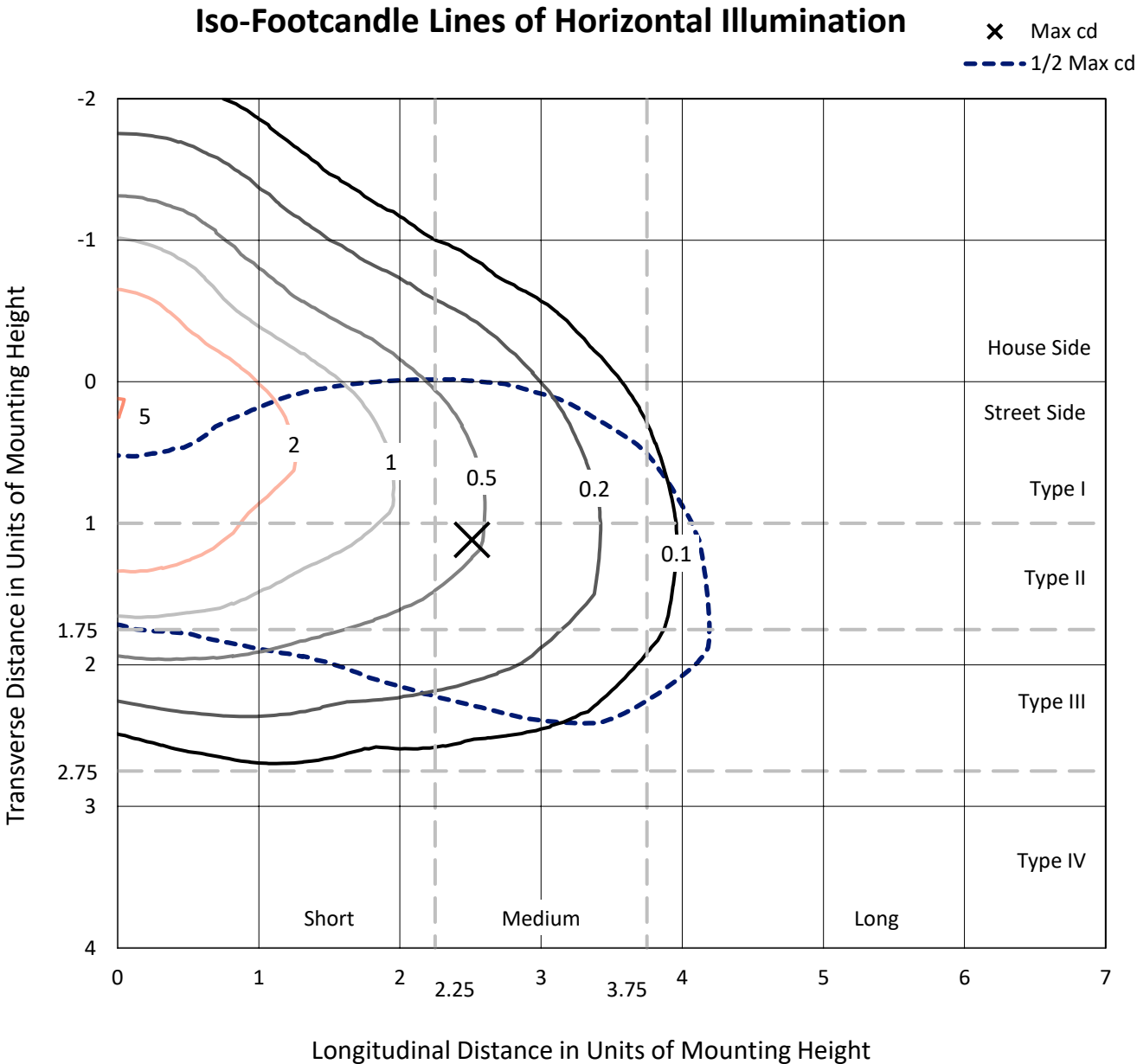
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16048 lumens
Efficiency: N/A
Efficacy: 172.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 93.1
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



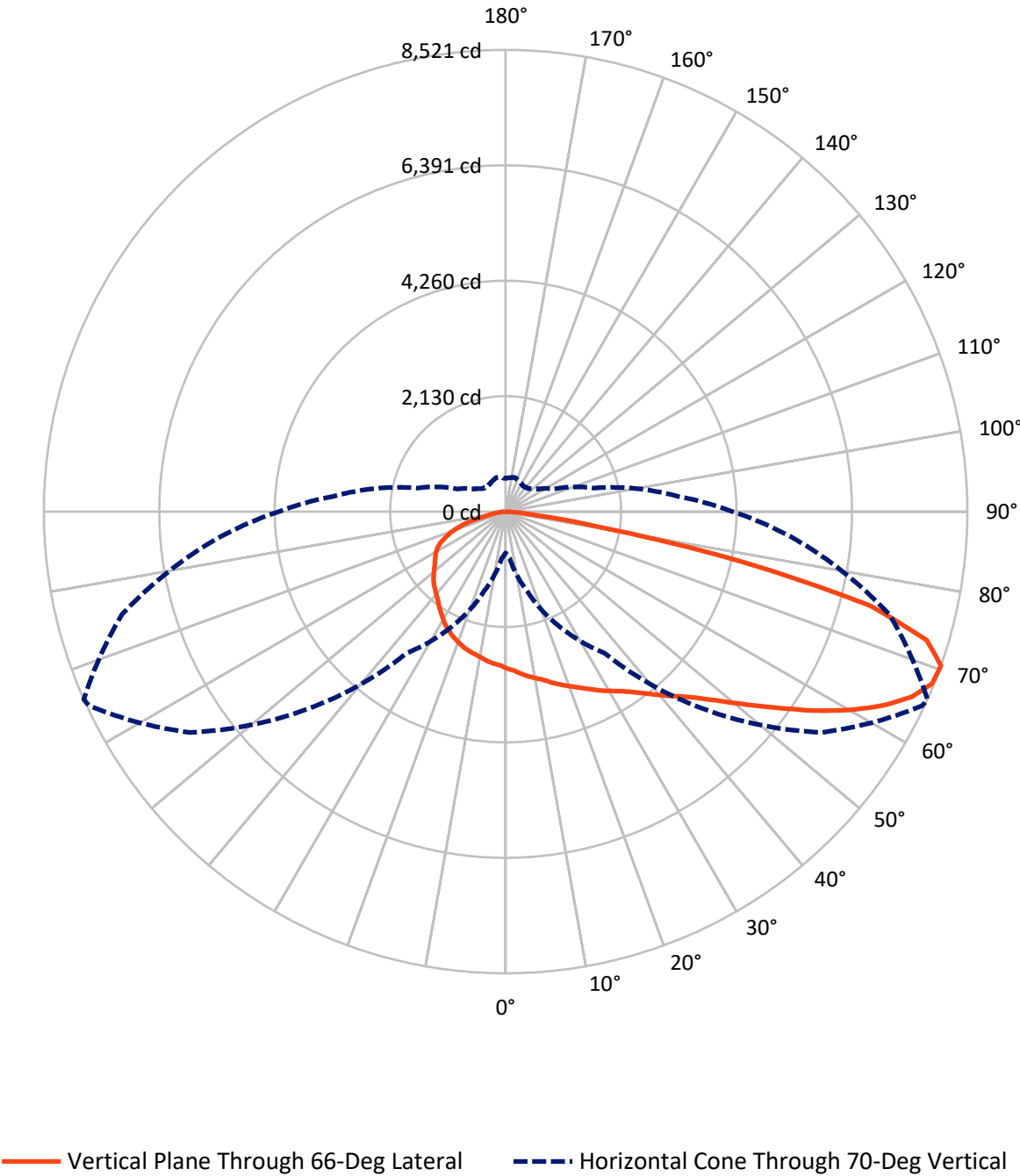
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Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4252.4	0.0	4252.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	11795.6	0.0	11795.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	16048.0	0.0	16048.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.7
10°-20°	834.8	5.2
20°-30°	1399.4	8.7
30°-40°	2095.4	13.1
40°-50°	2801.5	17.5
50°-60°	3270.9	20.4
60°-70°	3252.4	20.3
70°-80°	1925.5	12.0
80°-90°	189.8	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°	16048.0	100.0
0°-180°	16048.0	100.0

Coefficient of Utilization



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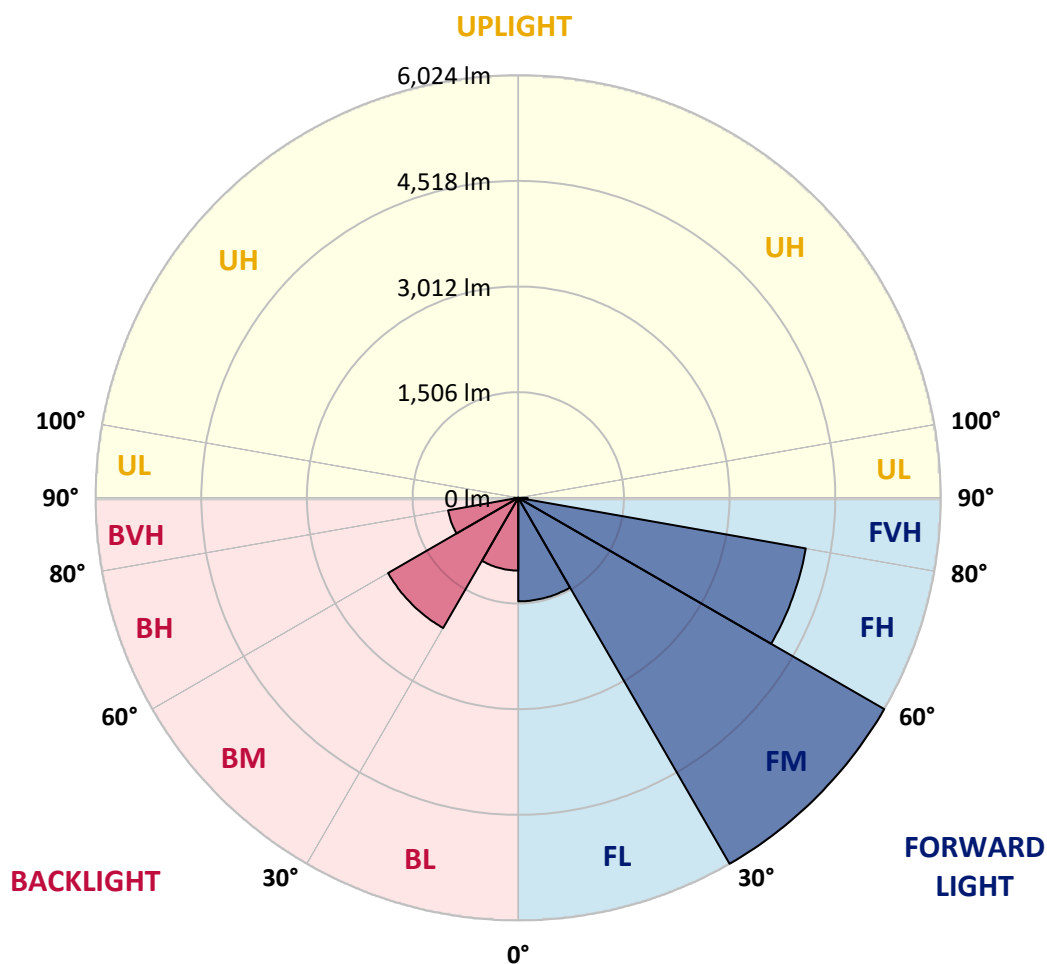
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.0	9.2			
FM	(30°-60°)	6024.2	37.5			
FH	(60°-80°)	4162.1	25.9			G2/5000
FVH	(80°-90°)	133.4	0.8			G2/225
BL	(0°-30°)	1036.5	6.5	B3/2500		
BM	(30°-60°)	2143.6	13.4	B2/2500		
BH	(60°-80°)	1015.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	56.4	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°	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3
2.5°	3002.8	2998.0	2995.7	2986.2	2964.9	2974.4	2953.1	2938.9	2936.5	2903.4	2884.5
5°	3125.8	3123.5	3118.7	3104.5	3071.4	3076.1	3040.6	3014.6	3007.5	2955.5	2915.2
7.5°	3229.9	3225.2	3222.8	3203.9	3168.4	3166.1	3123.5	3085.6	3073.8	3002.8	2941.3
10°	3310.4	3303.3	3308.0	3289.1	3251.2	3244.1	3189.7	3140.0	3128.2	3038.3	2953.1
12.5°	3379.0	3374.3	3381.4	3364.8	3334.1	3327.0	3272.5	3208.6	3194.4	3090.3	2979.1
15°	3454.7	3438.2	3452.4	3445.3	3424.0	3421.6	3371.9	3300.9	3282.0	3156.6	3019.3
17.5°	3495.0	3485.5	3502.1	3504.4	3495.0	3511.5	3464.2	3379.0	3362.5	3218.1	3054.8
20°	3523.4	3509.2	3528.1	3542.3	3549.4	3582.5	3544.7	3461.8	3442.9	3277.3	3088.0
22.5°	3620.4	3589.6	3592.0	3601.4	3606.2	3653.5	3629.8	3549.4	3530.5	3350.6	3128.2
25°	3864.1	3802.6	3762.3	3734.0	3700.8	3741.1	3726.9	3648.8	3632.2	3438.2	3177.9
27.5°	4242.7	4164.6	4084.2	4001.3	3871.2	3854.6	3831.0	3760.0	3741.1	3525.7	3227.6
30°	4673.4	4595.3	4500.6	4368.1	4124.4	3996.6	3942.2	3864.1	3842.8	3603.8	3274.9
32.5°	5101.7	5033.0	4938.4	4777.5	4429.6	4169.3	4053.4	3972.9	3951.6	3689.0	3331.7
35°	5435.3	5392.7	5331.2	5130.0	4732.5	4372.8	4214.3	4117.3	4093.6	3823.9	3435.8
37.5°	5705.0	5674.3	5622.2	5411.6	4952.6	4576.3	4398.9	4287.7	4261.6	3970.6	3547.0
40°	6102.6	6022.1	5979.5	5674.3	5144.2	4760.9	4607.1	4491.2	4462.8	4126.8	3636.9
42.5°	6441.0	6381.8	6329.7	5908.5	5326.4	4919.4	4803.5	4697.0	4659.2	4280.6	3734.0
45°	6497.7	6521.4	6495.4	6024.5	5615.1	5075.6	5002.3	4933.6	4898.2	4488.8	3880.7
47.5°	6500.1	6500.1	6346.3	6090.7	5972.4	5250.7	5215.2	5238.9	5201.0	4753.8	4055.8
50°	6329.7	6360.5	6280.0	6107.3	6067.1	5425.8	5475.5	5603.3	5565.4	5035.4	4245.1
52.5°	5977.2	6078.9	6076.5	6081.3	5929.8	5574.9	5750.0	6041.1	5977.2	5352.5	4446.2
55°	5354.8	5558.3	5740.5	5896.7	5811.5	5664.8	6086.0	6507.2	6441.0	5707.4	4649.7
57.5°	4822.4	4952.6	5179.7	5622.2	5671.9	5742.9	6400.7	6994.7	6935.5	6100.2	4862.7
60°	4214.3	4394.1	4621.3	5250.7	5501.5	5844.7	6746.2	7470.3	7413.5	6497.7	5068.5
62.5°	3279.6	3511.5	3965.8	4680.5	5253.1	5908.5	7018.3	7889.1	7863.1	6874.0	5253.1
65°	2285.8	2491.7	3128.2	3980.0	4857.9	5880.1	7236.0	8263.0	8239.3	7181.6	5383.2
67.5°	1334.6	1573.6	2292.9	3203.9	4159.9	5683.7	7307.0	8483.0	8483.0	7368.5	5418.7
70°	761.9	873.1	1512.0	2335.5	3189.7	5141.9	7108.2	8480.7	8520.9	7325.9	5272.0
72.5°	532.4	582.1	1017.5	1571.2	2162.8	4159.9	6587.7	8071.3	8125.7	6923.7	4770.4
75°	414.1	449.6	717.0	1071.9	1363.0	2825.3	5449.5	6805.4	6949.7	5901.4	3857.0
77.5°	314.7	340.7	418.8	669.7	873.1	1623.3	3596.7	4462.8	4472.2	3613.3	2068.1
80°	229.5	255.6	279.2	409.4	463.8	759.6	1358.2	1864.6	1812.6	1748.7	1119.2
82.5°	137.2	163.3	170.4	222.4	227.2	324.2	475.6	601.0	577.4	769.0	525.3
85°	59.2	82.8	87.6	101.7	97.0	132.5	189.3	158.5	142.0	163.3	113.6
87.5°	14.2	23.7	23.7	26.0	21.3	33.1	35.5	26.0	23.7	28.4	28.4
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°	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3	2896.3
2.5°	2879.7	2872.6	2875.0	2834.8	2822.9	2811.1	2804.0	2799.3	2794.5	2801.6	2808.7
5°	2901.0	2884.5	2865.5	2806.4	2782.7	2756.7	2737.8	2721.2	2714.1	2714.1	2721.2
7.5°	2917.6	2889.2	2849.0	2770.9	2728.3	2692.8	2662.0	2640.7	2628.9	2628.9	2636.0
10°	2920.0	2879.7	2815.8	2721.2	2664.4	2612.3	2576.9	2553.2	2536.6	2536.6	2541.4
12.5°	2934.2	2879.7	2796.9	2683.3	2612.3	2548.5	2505.9	2470.4	2463.3	2463.3	2468.0
15°	2957.8	2891.6	2785.1	2650.2	2565.0	2491.7	2444.3	2406.5	2392.3	2401.8	2404.1
17.5°	2979.1	2898.7	2763.8	2607.6	2505.9	2425.4	2373.4	2340.2	2321.3	2342.6	2342.6
20°	2993.3	2898.7	2733.0	2553.2	2442.0	2352.1	2302.4	2262.1	2247.9	2274.0	2276.3
22.5°	3014.6	2896.3	2699.9	2498.8	2373.4	2278.7	2229.0	2198.3	2191.2	2219.5	2229.0
25°	3038.3	2901.0	2664.4	2437.2	2297.6	2205.4	2167.5	2153.3	2158.0	2193.5	2205.4
27.5°	3064.3	2910.5	2628.9	2368.6	2214.8	2132.0	2110.7	2117.8	2136.7	2181.7	2195.9
30°	3088.0	2912.9	2579.2	2288.2	2120.2	2042.1	2051.5	2082.3	2110.7	2155.7	2172.2
32.5°	3118.7	2915.2	2527.2	2200.6	2018.4	1961.6	2004.2	2053.9	2082.3	2124.9	2143.8
35°	3194.4	2955.5	2486.9	2115.4	1923.8	1893.0	1964.0	2027.9	2044.4	2082.3	2098.9
37.5°	3282.0	3021.7	2465.6	2027.9	1831.5	1824.4	1914.3	1978.2	1982.9	2006.6	2023.1
40°	3336.4	3050.1	2442.0	1954.5	1748.7	1753.4	1845.7	1895.4	1885.9	1902.5	1914.3
42.5°	3390.8	3059.6	2392.3	1893.0	1670.6	1675.3	1746.3	1781.8	1786.5	1822.0	1838.6
45°	3483.1	3085.6	2337.9	1836.2	1599.6	1583.0	1625.6	1672.9	1734.5	1803.1	1822.0
47.5°	3606.2	3140.0	2281.1	1767.6	1531.0	1476.5	1493.1	1575.9	1639.8	1703.7	1715.5
50°	3731.6	3194.4	2229.0	1684.8	1462.3	1363.0	1370.1	1445.8	1497.8	1547.5	1554.6
52.5°	3854.6	3241.8	2184.1	1606.7	1384.3	1228.1	1256.5	1334.6	1370.1	1393.7	1400.8
55°	3977.7	3282.0	2143.8	1540.4	1294.3	1121.6	1147.6	1221.0	1256.5	1268.3	1273.0
57.5°	4105.5	3329.3	2113.1	1483.6	1192.6	1027.0	1043.5	1095.6	1128.7	1142.9	1138.2
60°	4211.9	3369.5	2096.5	1424.5	1090.8	939.4	934.7	982.0	1029.3	1043.5	1038.8
62.5°	4294.8	3395.6	2070.5	1348.8	1000.9	851.9	828.2	889.7	939.4	948.9	956.0
65°	4339.7	3397.9	2006.6	1251.7	908.6	757.2	740.6	802.2	832.9	842.4	842.4
67.5°	4332.6	3360.1	1881.2	1121.6	823.5	672.0	657.8	695.7	740.6	747.7	740.6
70°	4185.9	3203.9	1680.0	984.4	721.7	596.3	570.3	608.1	650.7	624.7	612.9
72.5°	3769.4	2799.3	1384.3	832.9	608.1	501.6	489.8	527.7	530.0	534.8	522.9
75°	2974.4	2084.7	1036.4	648.4	492.2	421.2	418.8	411.7	421.2	440.1	425.9
77.5°	1561.7	1041.2	560.8	397.5	357.3	338.4	321.8	319.4	347.8	359.7	345.5
80°	847.1	584.5	321.8	239.0	217.7	220.1	241.4	236.6	267.4	274.5	262.7
82.5°	369.1	276.9	158.5	144.3	144.3	142.0	149.1	165.6	198.8	198.8	158.5
85°	80.5	68.6	61.5	71.0	80.5	80.5	80.5	80.5	56.8	30.8	21.3
87.5°	26.0	26.0	26.0	28.4	30.8	30.8	26.0	18.9	11.8	2.4	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)