

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: P842700

Luminaire Tested: **ARCH4-80-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842700
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: ARCH4-80-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14807 lumens
Efficiency: N/A
Efficacy: 177.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

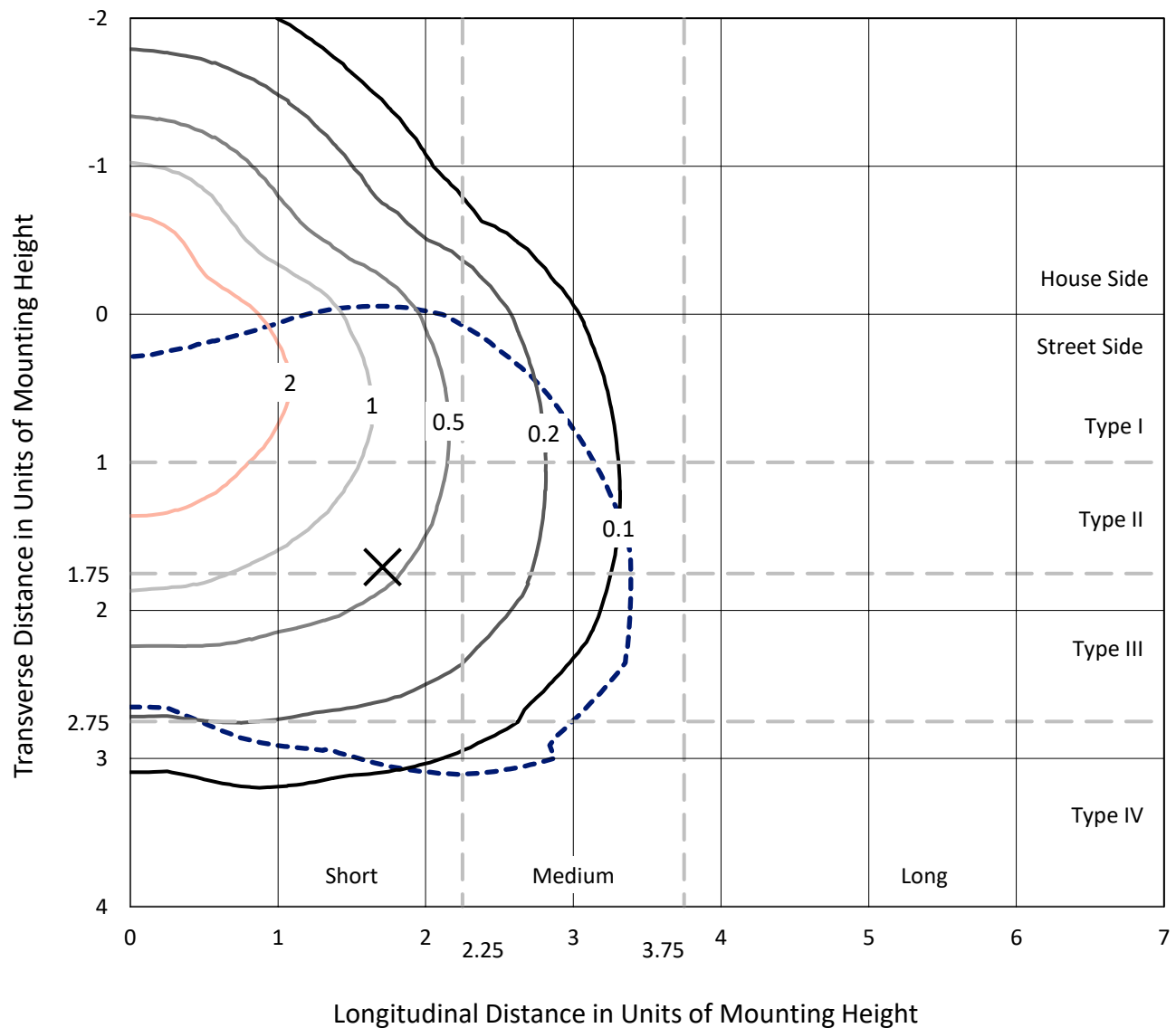


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Iso-Footcandle Lines of Horizontal Illumination

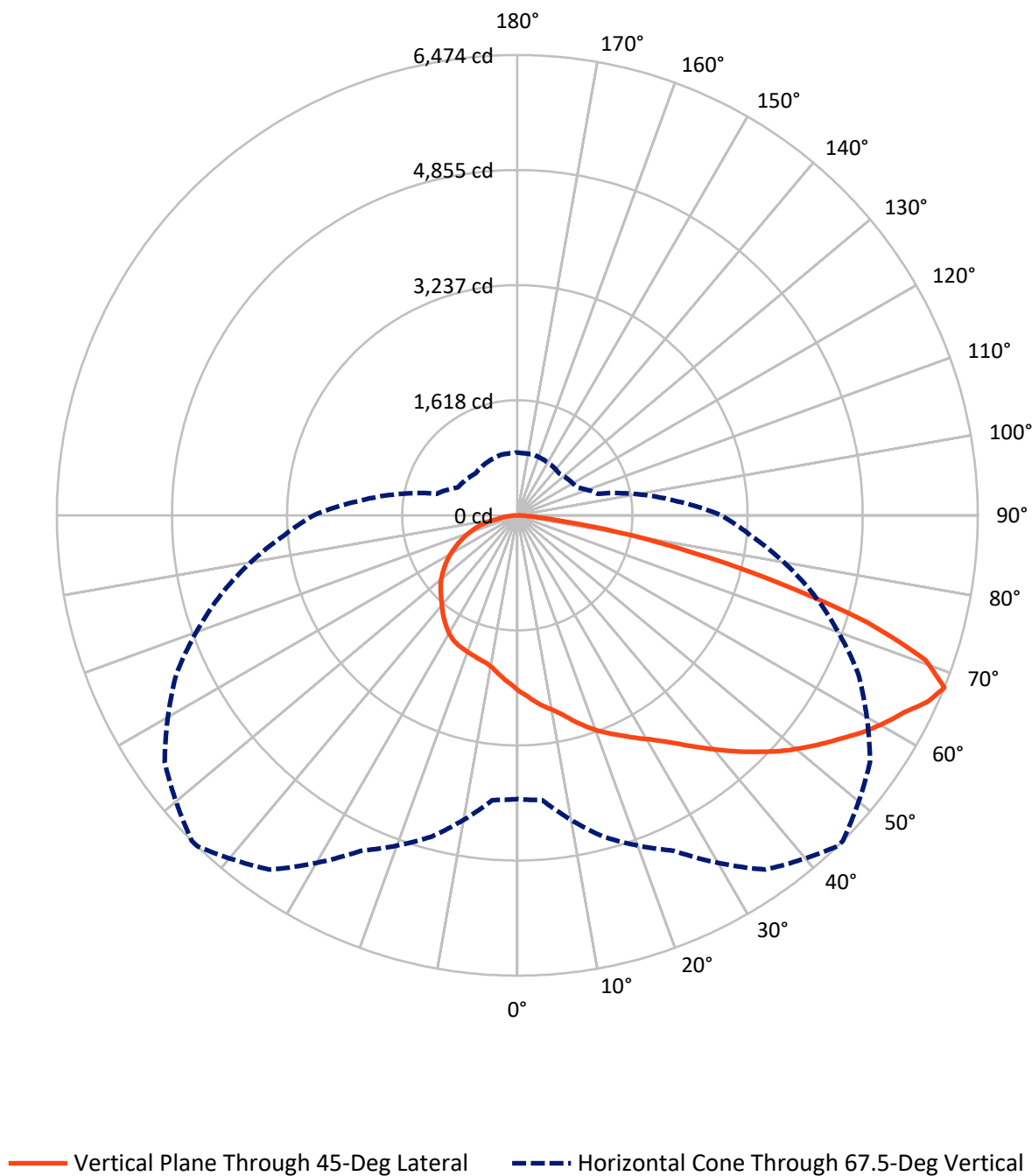
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	3955.7	0.0	3955.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	10851.3	0.0	10851.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	14807.0	0.0	14807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	1.6
10°-20°	730.4	4.9
20°-30°	1260.8	8.5
30°-40°	1859.2	12.6
40°-50°	2518.8	17.0
50°-60°	3078.6	20.8
60°-70°	3175.2	21.4
70°-80°	1739.1	11.7
80°-90°	208.4	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°	14807.0	100.0
0°-180°	14807.0	100.0

Coefficient of Utilization



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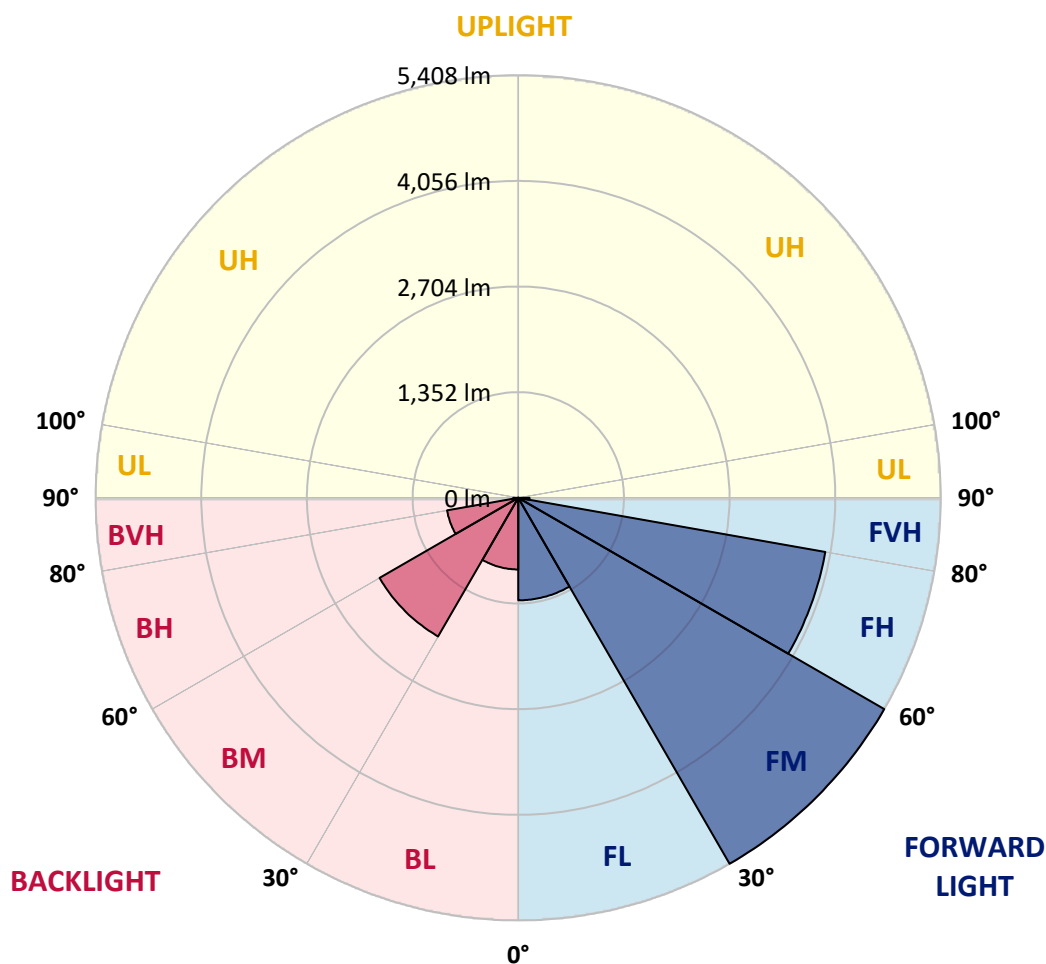
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.8	8.9			
FM	(30°-60°)	5407.7	36.5			
FH	(60°-80°)	3989.2	26.9			G2/5000
FVH	(80°-90°)	143.6	1.0			G2/225
BL	(0°-30°)	916.8	6.2	B2/1000		
BM	(30°-60°)	2049.0	13.8	B2/2500		
BH	(60°-80°)	925.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	64.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5
2.5°	2577.7	2575.4	2579.9	2564.2	2543.9	2541.6	2541.6	2528.1	2512.3	2480.8	2456.0
5°	2699.4	2694.8	2697.1	2674.6	2647.5	2634.0	2631.8	2602.5	2566.4	2516.8	2471.8
7.5°	2812.0	2807.5	2805.3	2780.5	2739.9	2717.4	2715.1	2672.3	2629.5	2552.9	2487.6
10°	2917.9	2913.4	2908.9	2875.1	2825.5	2791.7	2787.2	2733.2	2679.1	2584.4	2501.1
12.5°	3053.1	3044.1	3039.6	2999.0	2926.9	2890.9	2884.1	2812.0	2744.4	2629.5	2528.1
15°	3195.1	3188.3	3181.5	3143.2	3062.1	3014.8	3003.5	2913.4	2821.0	2688.1	2568.7
17.5°	3301.0	3294.2	3294.2	3260.4	3186.1	3132.0	3123.0	3014.8	2899.9	2742.2	2600.2
20°	3366.3	3359.5	3366.3	3346.0	3289.7	3244.6	3235.6	3116.2	2978.8	2791.7	2627.3
22.5°	3413.6	3406.9	3418.1	3409.1	3368.6	3341.5	3334.8	3217.6	3059.9	2843.6	2654.3
25°	3497.0	3497.0	3497.0	3481.2	3442.9	3433.9	3433.9	3332.5	3163.5	2911.2	2694.8
27.5°	3663.7	3654.7	3643.5	3598.4	3533.0	3530.8	3544.3	3449.7	3282.9	2999.0	2744.4
30°	3909.3	3904.8	3862.0	3767.4	3657.0	3645.7	3654.7	3575.9	3411.4	3091.4	2800.7
32.5°	4227.0	4211.3	4123.4	3981.4	3823.7	3771.9	3789.9	3706.5	3546.6	3186.1	2854.8
35°	4452.4	4456.9	4393.8	4265.3	4078.3	3940.9	3954.4	3853.0	3693.0	3292.0	2922.4
37.5°	4711.5	4727.3	4632.6	4535.7	4362.2	4127.9	4141.4	4004.0	3839.5	3424.9	2994.5
40°	5069.7	5038.2	4878.2	4763.3	4571.8	4323.9	4335.2	4173.0	4008.5	3551.1	3077.9
42.5°	5369.4	5313.1	5119.3	4972.9	4743.0	4531.2	4542.5	4355.5	4179.7	3690.8	3170.3
45°	5799.8	5644.3	5364.9	5292.8	4918.8	4734.0	4745.3	4549.2	4360.0	3839.5	3269.4
47.5°	6049.9	5802.0	5624.0	5585.7	5112.6	4943.6	4957.1	4754.3	4553.8	4008.5	3373.1
50°	6034.1	5874.1	5822.3	5727.7	5283.8	5139.6	5153.1	4966.1	4749.8	4175.2	3472.2
52.5°	5930.5	5959.8	5932.7	5775.0	5455.0	5328.9	5344.6	5175.6	4950.3	4330.7	3564.6
55°	6090.4	6110.7	6058.9	5851.6	5644.3	5518.1	5536.2	5396.5	5148.6	4468.1	3643.5
57.5°	6282.0	6209.9	6158.0	5986.8	5840.3	5723.2	5743.5	5621.8	5319.8	4578.5	3704.3
60°	6273.0	6122.0	6173.8	5995.8	5973.3	5912.4	5930.5	5806.5	5450.5	4659.7	3729.1
62.5°	5811.0	5729.9	5991.3	5930.5	6081.4	6081.4	6104.0	5919.2	5529.4	4693.5	3715.6
65°	5008.9	5013.4	5473.1	5725.4	6209.9	6313.5	6331.5	5989.1	5484.3	4594.3	3589.4
67.5°	3990.4	4019.7	4679.9	5204.9	6081.4	6471.2	6473.5	6052.1	5290.6	4314.9	3296.5
70°	2920.2	2942.7	3722.3	4360.0	5475.3	6122.0	6085.9	5874.1	4869.2	3828.2	2839.1
72.5°	1973.8	1994.1	2796.2	3348.3	4492.9	5213.9	5135.1	5191.4	4150.4	3145.5	2282.5
75°	1327.1	1351.9	1989.6	2395.2	3305.5	3958.9	3783.2	3931.9	3210.8	2381.7	1665.1
77.5°	835.9	851.7	1264.1	1570.5	2257.7	2694.8	2519.1	2521.4	1849.9	1282.1	894.5
80°	531.8	536.3	766.1	905.8	1306.9	1620.1	1433.0	1164.9	833.7	680.5	534.0
82.5°	308.7	301.9	457.4	511.5	621.9	615.1	509.2	482.2	365.0	340.2	272.6
85°	123.9	114.9	200.5	187.0	189.3	200.5	148.7	148.7	119.4	92.4	67.6
87.5°	24.8	24.8	27.0	24.8	24.8	27.0	20.3	20.3	18.0	18.0	18.0
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°	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5	2469.5
2.5°	2451.5	2447.0	2435.7	2406.4	2390.7	2381.7	2368.1	2363.6	2361.4	2363.6	2370.4
5°	2458.3	2442.5	2410.9	2363.6	2332.1	2311.8	2289.3	2280.3	2273.5	2273.5	2280.3
7.5°	2462.8	2438.0	2383.9	2314.1	2269.0	2237.4	2210.4	2199.1	2196.9	2203.6	2205.9
10°	2465.0	2429.0	2352.4	2264.5	2205.9	2165.3	2138.3	2131.5	2138.3	2151.8	2154.1
12.5°	2480.8	2431.2	2334.3	2230.7	2160.8	2120.3	2100.0	2100.0	2118.0	2142.8	2145.1
15°	2507.8	2447.0	2325.3	2203.6	2131.5	2095.5	2088.7	2100.0	2127.0	2165.3	2169.8
17.5°	2528.1	2456.0	2305.0	2167.6	2093.2	2070.7	2082.0	2109.0	2147.3	2199.1	2203.6
20°	2541.6	2456.0	2275.8	2124.8	2054.9	2050.4	2082.0	2124.8	2165.3	2226.2	2232.9
22.5°	2555.1	2451.5	2242.0	2073.0	2012.1	2025.6	2084.2	2138.3	2178.9	2244.2	2255.5
25°	2579.9	2458.3	2208.2	2021.1	1967.1	2005.4	2082.0	2147.3	2190.1	2257.7	2275.8
27.5°	2613.7	2474.0	2183.4	1973.8	1922.0	1973.8	2066.2	2145.1	2190.1	2255.5	2275.8
30°	2649.8	2492.1	2154.1	1922.0	1870.2	1928.8	2032.4	2120.3	2172.1	2232.9	2257.7
32.5°	2688.1	2512.3	2129.3	1865.7	1807.1	1867.9	1982.8	2082.0	2138.3	2194.6	2221.7
35°	2739.9	2548.4	2115.8	1820.6	1750.8	1804.8	1919.7	2032.4	2093.2	2145.1	2176.6
37.5°	2803.0	2593.5	2109.0	1775.5	1689.9	1735.0	1852.1	1971.6	2036.9	2079.7	2109.0
40°	2875.1	2649.8	2106.8	1732.7	1629.1	1662.9	1782.3	1901.7	1964.8	1998.6	2023.4
42.5°	2956.2	2712.9	2102.3	1689.9	1568.2	1595.3	1714.7	1831.9	1885.9	1915.2	1937.8
45°	3041.8	2776.0	2093.2	1638.1	1502.9	1534.4	1644.8	1748.5	1804.8	1829.6	1854.4
47.5°	3127.5	2839.1	2075.2	1579.5	1444.3	1473.6	1570.5	1660.6	1705.7	1728.2	1753.0
50°	3210.8	2895.4	2032.4	1511.9	1383.5	1410.5	1484.9	1545.7	1579.5	1597.5	1622.3
52.5°	3285.2	2933.7	1971.6	1433.0	1322.6	1336.2	1385.7	1437.6	1464.6	1466.8	1489.4
55°	3348.3	2954.0	1883.7	1351.9	1257.3	1259.5	1286.6	1327.1	1338.4	1329.4	1345.2
57.5°	3384.3	2942.7	1786.8	1268.6	1189.7	1180.7	1201.0	1221.2	1223.5	1201.0	1216.7
60°	3393.3	2890.9	1660.6	1185.2	1122.1	1097.3	1104.1	1099.6	1095.1	1086.1	1099.6
62.5°	3348.3	2780.5	1520.9	1104.1	1050.0	1011.7	1009.4	1007.2	1013.9	1016.2	1018.5
65°	3183.8	2573.2	1354.2	1020.7	973.4	921.6	919.3	946.4	955.4	941.8	946.4
67.5°	2866.1	2255.5	1171.7	923.8	876.5	831.4	849.5	865.2	881.0	876.5	881.0
70°	2415.4	1852.1	1004.9	815.7	770.6	745.8	766.1	779.6	781.9	777.4	781.9
72.5°	1899.5	1446.6	849.5	705.3	664.7	653.4	678.2	689.5	709.8	718.8	721.0
75°	1372.2	1068.0	696.2	585.8	552.0	552.0	574.6	594.8	612.9	601.6	594.8
77.5°	766.1	637.7	500.2	403.3	410.1	441.6	450.6	473.2	491.2	488.9	484.4
80°	464.2	398.8	338.0	261.4	259.1	283.9	342.5	380.8	389.8	369.5	367.3
82.5°	241.1	209.5	180.3	146.5	162.2	189.3	198.3	238.8	263.6	254.6	265.9
85°	60.8	58.6	65.3	67.6	83.4	92.4	101.4	119.4	78.9	38.3	38.3
87.5°	18.0	18.0	22.5	22.5	29.3	36.1	33.8	33.8	18.0	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)