

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: P836829

Luminaire Tested: **ARCH3-80-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

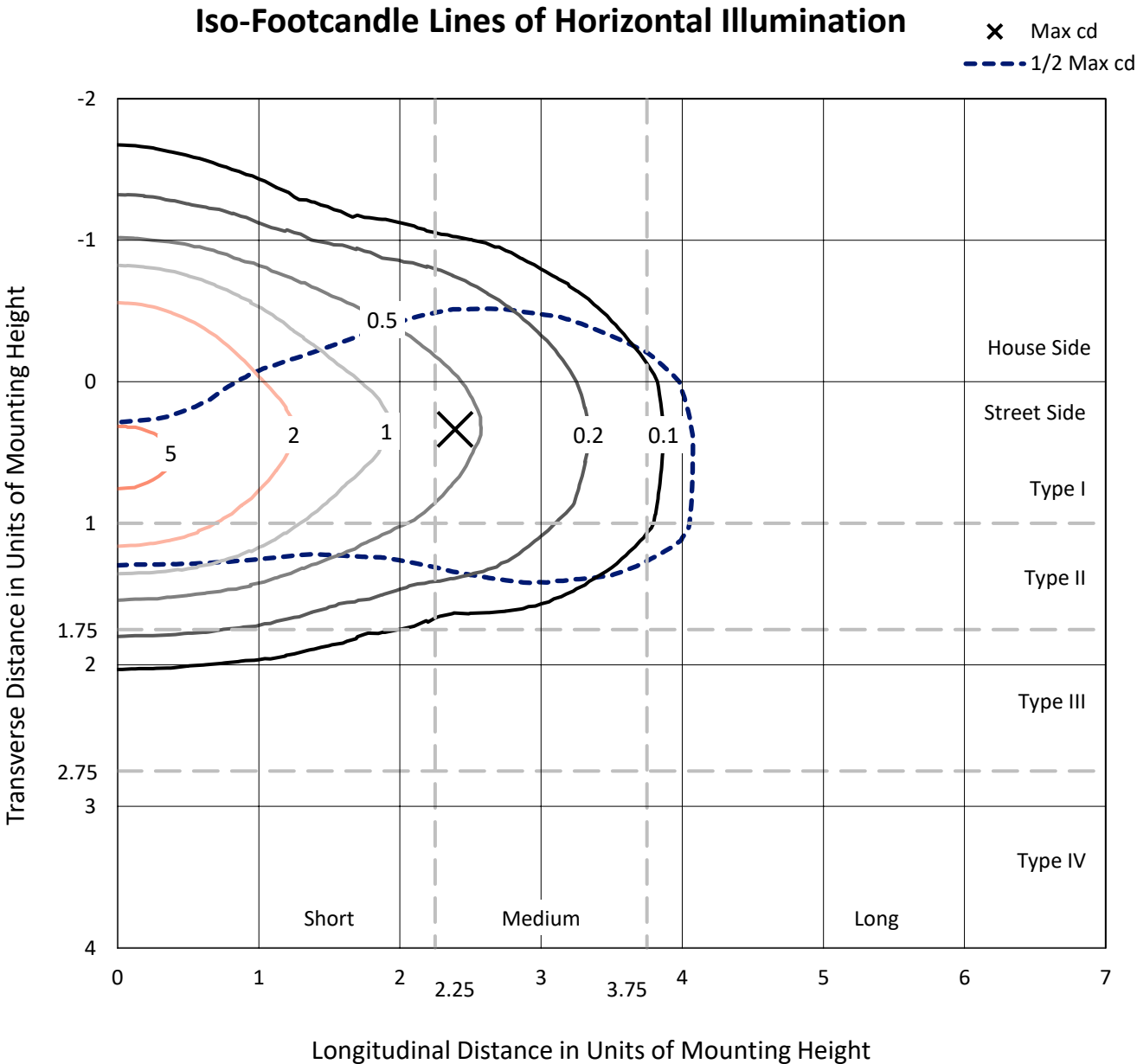
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13177 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 81.9
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



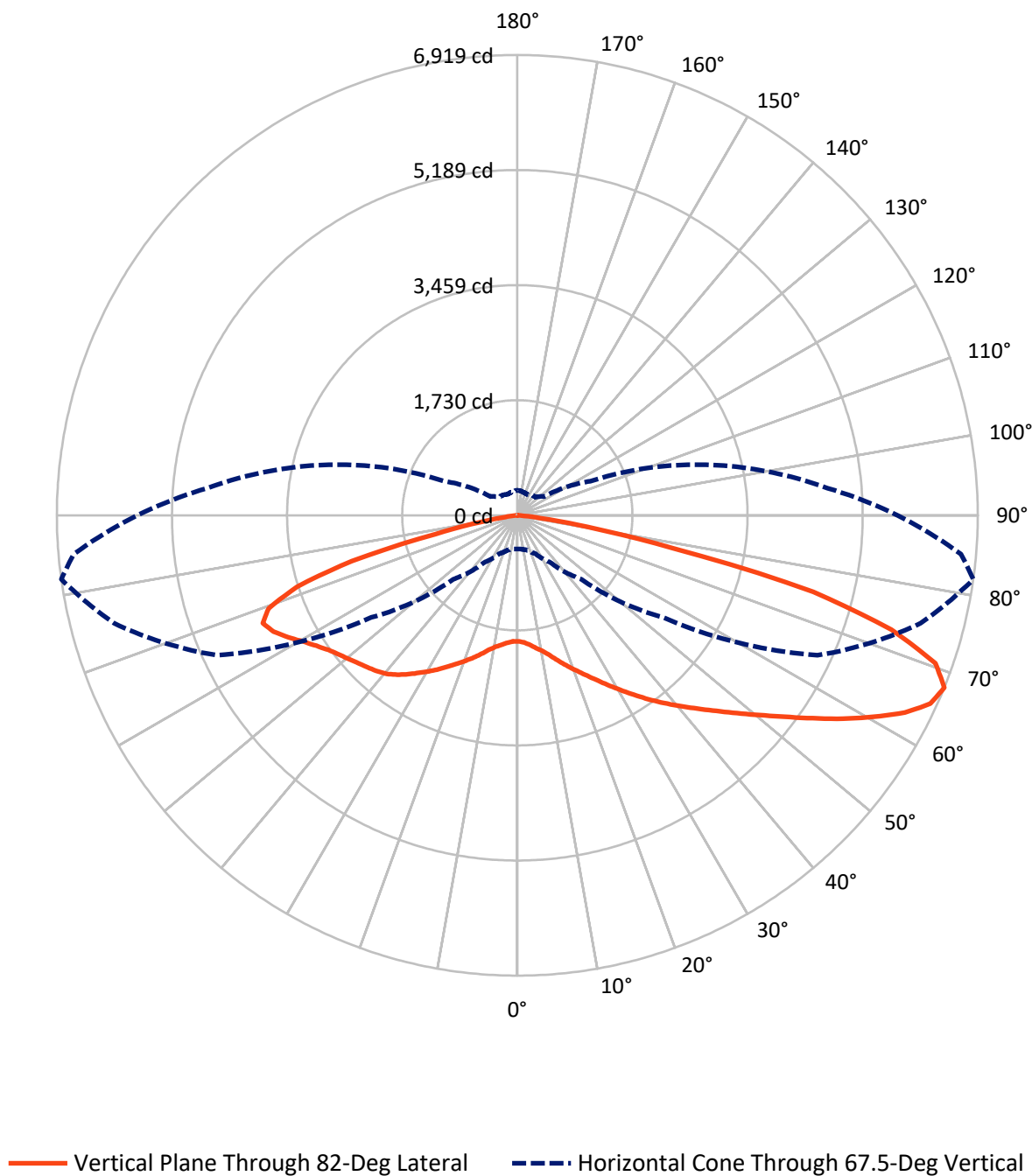
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Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4012.9	0.0	4012.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	9164.1	0.0	9164.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	13177.0	0.0	13177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.5
10°-20°	705.1	5.4
20°-30°	1417.1	10.8
30°-40°	2226.1	16.9
40°-50°	2711.8	20.6
50°-60°	2562.3	19.4
60°-70°	2115.9	16.1
70°-80°	1152.2	8.7
80°-90°	90.6	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°	13177.0	100.0
0°-180°	13177.0	100.0

Coefficient of Utilization



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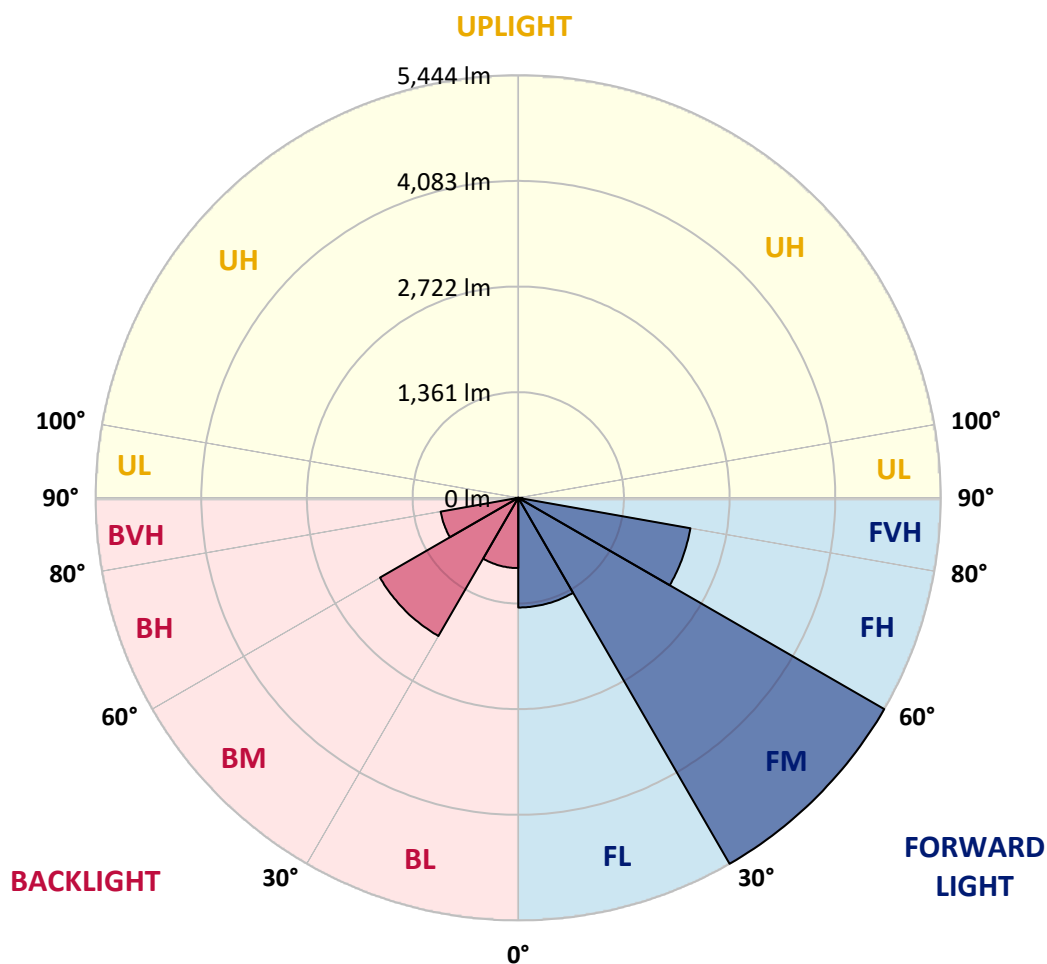
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.1	10.7			
FM	(30°-60°)	5444.0	41.3			
FH	(60°-80°)	2252.4	17.1			G2/5000
FVH	(80°-90°)	54.6	0.4			G1/100
BL	(0°-30°)	904.9	6.9	B2/1000		
BM	(30°-60°)	2056.3	15.6	B2/2500		
BH	(60°-80°)	1015.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	36.0	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°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2
2.5°	1980.3	1980.3	1995.6	1995.6	1982.2	1961.2	1955.4	1932.5	1911.4	1911.4	1913.3
5°	2169.7	2167.8	2179.3	2164.0	2131.4	2089.3	2060.6	2010.9	1968.8	1955.4	1953.5
7.5°	2401.2	2399.3	2405.0	2380.2	2318.9	2250.1	2192.7	2112.3	2043.4	2014.7	2007.1
10°	2659.5	2657.6	2651.9	2609.8	2527.5	2420.3	2334.3	2223.3	2120.0	2074.0	2064.5
12.5°	2956.1	2952.3	2938.9	2877.6	2764.7	2627.0	2502.6	2359.1	2221.4	2158.2	2137.2
15°	3287.1	3281.3	3256.5	3181.9	3030.7	2856.6	2695.9	2512.2	2343.8	2261.5	2232.8
17.5°	3635.3	3635.3	3597.0	3486.1	3317.7	3101.5	2902.5	2669.1	2472.0	2370.6	2336.2
20°	3989.3	3987.4	3939.5	3805.6	3606.6	3357.9	3105.3	2848.9	2604.0	2481.6	2439.5
22.5°	4362.4	4358.5	4299.2	4146.2	3908.9	3627.7	3333.0	3026.9	2749.4	2602.1	2548.5
25°	4791.0	4785.2	4712.5	4525.0	4243.7	3926.1	3589.4	3235.4	2915.9	2736.0	2672.9
27.5°	5246.3	5238.7	5152.6	4934.5	4626.4	4243.7	3872.6	3476.5	3099.6	2885.3	2814.5
30°	5651.9	5646.2	5552.5	5328.6	4974.6	4559.4	4142.3	3717.6	3292.8	3044.1	2956.1
32.5°	5958.1	5958.1	5873.9	5653.9	5286.5	4861.7	4414.0	3945.3	3493.7	3214.4	3111.1
35°	6143.7	6149.4	6076.7	5900.7	5554.4	5146.8	4695.3	4213.1	3708.0	3396.1	3285.2
37.5°	6170.5	6189.6	6147.5	6028.9	5740.0	5384.1	4970.8	4471.4	3930.0	3579.8	3455.5
40°	6046.1	6059.5	6061.4	6015.5	5816.5	5554.4	5213.8	4745.0	4165.3	3773.1	3629.6
42.5°	5797.4	5806.9	5824.1	5837.5	5761.0	5629.0	5399.4	4999.5	4415.9	3970.1	3801.8
45°	5475.9	5474.0	5502.7	5560.1	5556.3	5586.9	5502.7	5231.0	4676.2	4194.0	3993.1
47.5°	4995.7	4986.1	5087.5	5217.6	5282.7	5426.2	5504.6	5412.8	4959.3	4440.8	4211.2
50°	4243.7	4234.2	4456.1	4762.3	4953.6	5171.7	5399.4	5521.8	5255.9	4718.2	4448.5
52.5°	3329.2	3319.6	3600.9	4136.6	4553.7	4871.3	5187.0	5546.7	5537.1	5028.2	4716.3
55°	2475.8	2468.2	2741.8	3321.5	3996.9	4523.1	4926.8	5481.7	5801.2	5384.1	5041.6
57.5°	1744.9	1741.1	1978.4	2458.6	3281.3	4098.3	4676.2	5355.4	6044.2	5770.6	5409.0
60°	1224.5	1218.8	1391.0	1762.2	2481.6	3457.4	4427.4	5187.0	6225.9	6151.3	5799.3
62.5°	824.6	820.8	943.3	1253.2	1762.2	2661.4	4050.5	5074.1	6329.3	6534.0	6193.4
65°	625.7	623.7	679.2	849.5	1247.5	1911.4	3451.6	5060.7	6342.7	6821.0	6528.2
67.5°	505.1	507.0	537.6	635.2	862.9	1358.5	2676.7	4976.5	6271.9	6918.6	6690.9
70°	413.3	413.3	426.7	491.7	637.1	916.5	1869.3	4593.9	6074.8	6664.1	6497.6
72.5°	315.7	317.6	359.7	398.0	480.2	642.9	1197.7	3801.8	5609.9	5875.8	5749.5
75°	250.6	248.7	273.6	327.2	373.1	459.2	734.7	2726.5	4773.7	4592.0	4511.6
77.5°	179.9	177.9	197.1	243.0	283.2	325.3	438.2	1375.7	2596.4	2385.9	2326.6
80°	122.5	118.6	135.8	168.4	187.5	191.3	214.3	528.1	1132.7	1067.6	1054.2
82.5°	63.1	63.1	72.7	95.7	97.6	99.5	95.7	170.3	375.0	350.1	334.8
85°	24.9	24.9	26.8	32.5	32.5	34.4	34.4	44.0	40.2	38.3	36.4
87.5°	1.9	1.9	3.8	3.8	5.7	5.7	5.7	7.7	9.6	9.6	9.6
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°	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2	1894.2
2.5°	1909.5	1901.8	1877.0	1871.2	1867.4	1861.7	1863.6	1850.2	1844.4	1846.4	1838.7
5°	1943.9	1930.5	1899.9	1886.5	1882.7	1877.0	1882.7	1873.1	1863.6	1867.4	1863.6
7.5°	1991.8	1972.6	1934.4	1921.0	1919.1	1913.3	1921.0	1913.3	1905.7	1909.5	1901.8
10°	2041.5	2016.6	1974.5	1961.2	1961.2	1959.2	1966.9	1955.4	1947.8	1949.7	1945.8
12.5°	2114.2	2081.7	2035.8	2024.3	2018.6	2024.3	2026.2	2010.9	1997.5	1999.4	1993.7
15°	2202.2	2165.9	2116.1	2098.9	2095.1	2093.2	2085.5	2066.4	2049.2	2047.3	2041.5
17.5°	2297.9	2252.0	2192.7	2175.4	2158.2	2152.5	2133.4	2108.5	2081.7	2081.7	2074.0
20°	2389.7	2338.1	2267.3	2242.4	2217.5	2194.6	2162.1	2121.9	2087.4	2081.7	2074.0
22.5°	2489.2	2428.0	2345.7	2309.4	2265.4	2219.5	2164.0	2110.4	2066.4	2056.8	2051.1
25°	2600.2	2523.7	2426.1	2372.5	2301.7	2230.9	2148.7	2079.8	2028.1	2012.8	2009.0
27.5°	2722.7	2630.8	2512.2	2433.7	2330.4	2219.5	2114.2	2031.9	1968.8	1949.7	1943.9
30°	2847.0	2738.0	2590.6	2475.8	2330.4	2183.1	2051.1	1955.4	1882.7	1855.9	1852.1
32.5°	2971.4	2848.9	2661.4	2498.8	2307.5	2121.9	1968.8	1855.9	1773.6	1741.1	1748.8
35°	3120.6	2971.4	2726.5	2508.4	2269.2	2047.3	1875.1	1743.0	1658.8	1630.1	1635.9
37.5°	3275.6	3093.8	2778.1	2500.7	2215.6	1963.1	1769.8	1641.6	1536.4	1486.6	1492.4
40°	3409.5	3204.8	2814.5	2473.9	2146.7	1867.4	1666.5	1498.1	1352.7	1304.9	1299.1
42.5°	3535.8	3287.1	2833.6	2433.7	2068.3	1756.4	1519.2	1303.0	1157.6	1098.2	1100.2
45°	3667.8	3367.4	2826.0	2380.2	1970.7	1626.3	1329.8	1111.6	983.4	929.9	931.8
47.5°	3819.0	3453.5	2818.3	2322.8	1852.1	1457.9	1148.0	943.3	832.3	794.0	790.2
50°	3979.7	3549.2	2808.8	2252.0	1720.1	1270.4	968.1	786.4	692.6	667.7	662.0
52.5°	4161.5	3652.5	2803.0	2167.8	1561.3	1071.5	807.4	648.6	585.5	568.3	566.3
55°	4379.6	3773.1	2810.7	2066.4	1369.9	884.0	671.6	558.7	516.6	507.0	505.1
57.5°	4645.5	3928.0	2833.6	1947.8	1169.0	721.3	572.1	503.2	476.4	468.8	468.8
60°	4934.5	4104.1	2875.7	1813.8	968.1	595.0	507.0	459.2	447.7	457.3	457.3
62.5°	5246.3	4310.7	2950.3	1651.2	780.6	503.2	455.4	422.8	415.2	434.3	436.2
65°	5535.2	4511.6	2998.2	1456.0	619.9	436.2	415.2	386.5	390.3	409.5	407.5
67.5°	5713.2	4678.1	2931.2	1211.1	491.7	386.5	373.1	348.2	357.8	373.1	375.0
70°	5604.1	4584.3	2600.2	914.6	384.6	336.7	327.2	311.9	319.5	338.7	346.3
72.5°	5070.3	4106.0	2022.4	618.0	310.0	283.2	287.0	279.3	288.9	306.1	323.4
75°	4115.6	3103.4	1356.5	396.1	244.9	241.1	246.8	241.1	244.9	262.1	271.7
77.5°	2148.7	1513.4	675.4	246.8	181.8	187.5	197.1	199.0	210.5	214.3	218.1
80°	1002.6	681.1	281.3	137.8	120.5	132.0	151.2	153.1	156.9	162.6	164.5
82.5°	327.2	204.7	130.1	74.6	68.9	74.6	97.6	116.7	118.6	130.1	130.1
85°	34.4	21.0	28.7	30.6	26.8	32.5	44.0	42.1	19.1	11.5	11.5
87.5°	9.6	7.7	9.6	9.6	7.7	7.7	5.7	1.9	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)