

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: P1210879

Luminaire Tested: **ARCH4-100-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16989 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 103.1
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

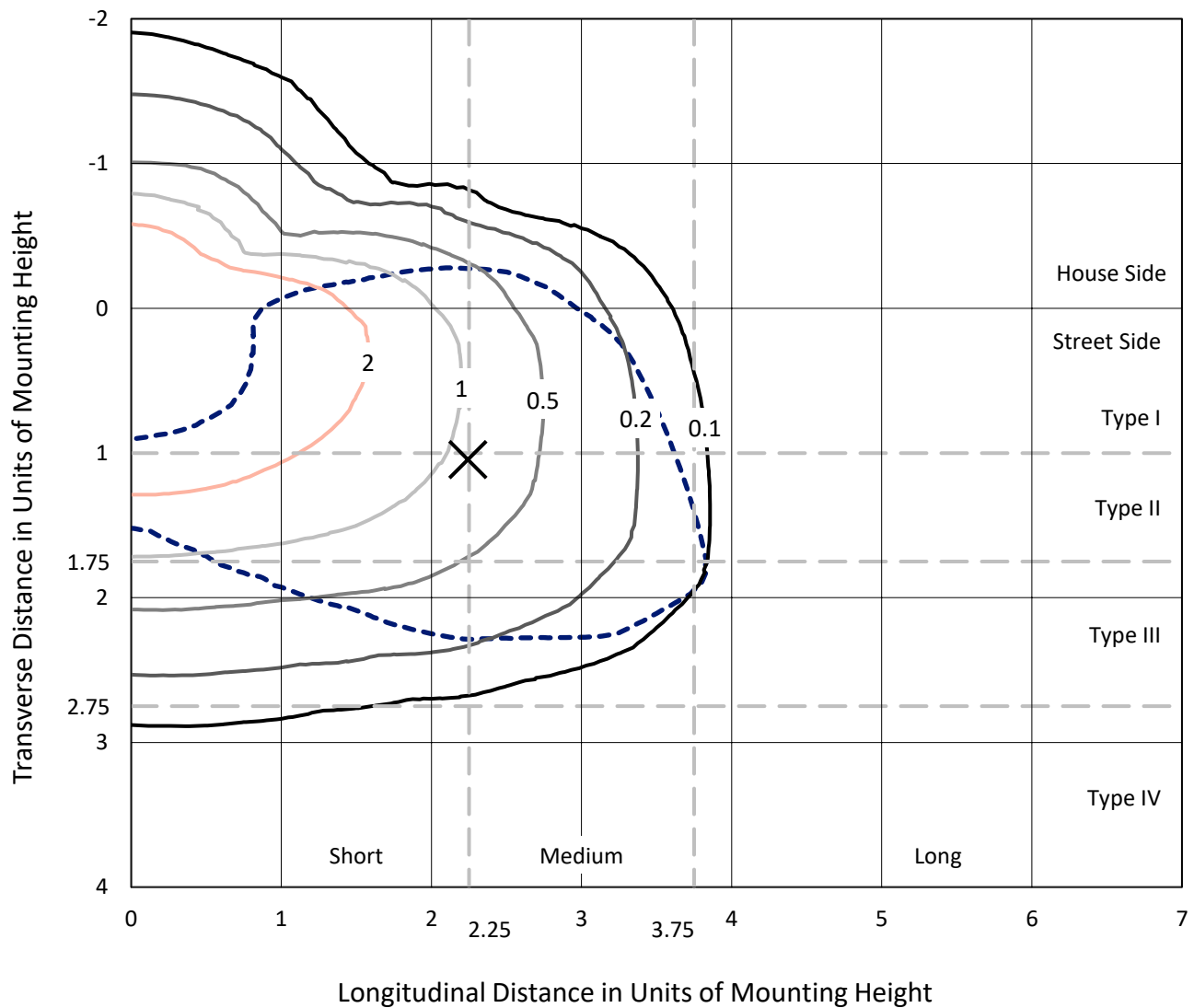


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

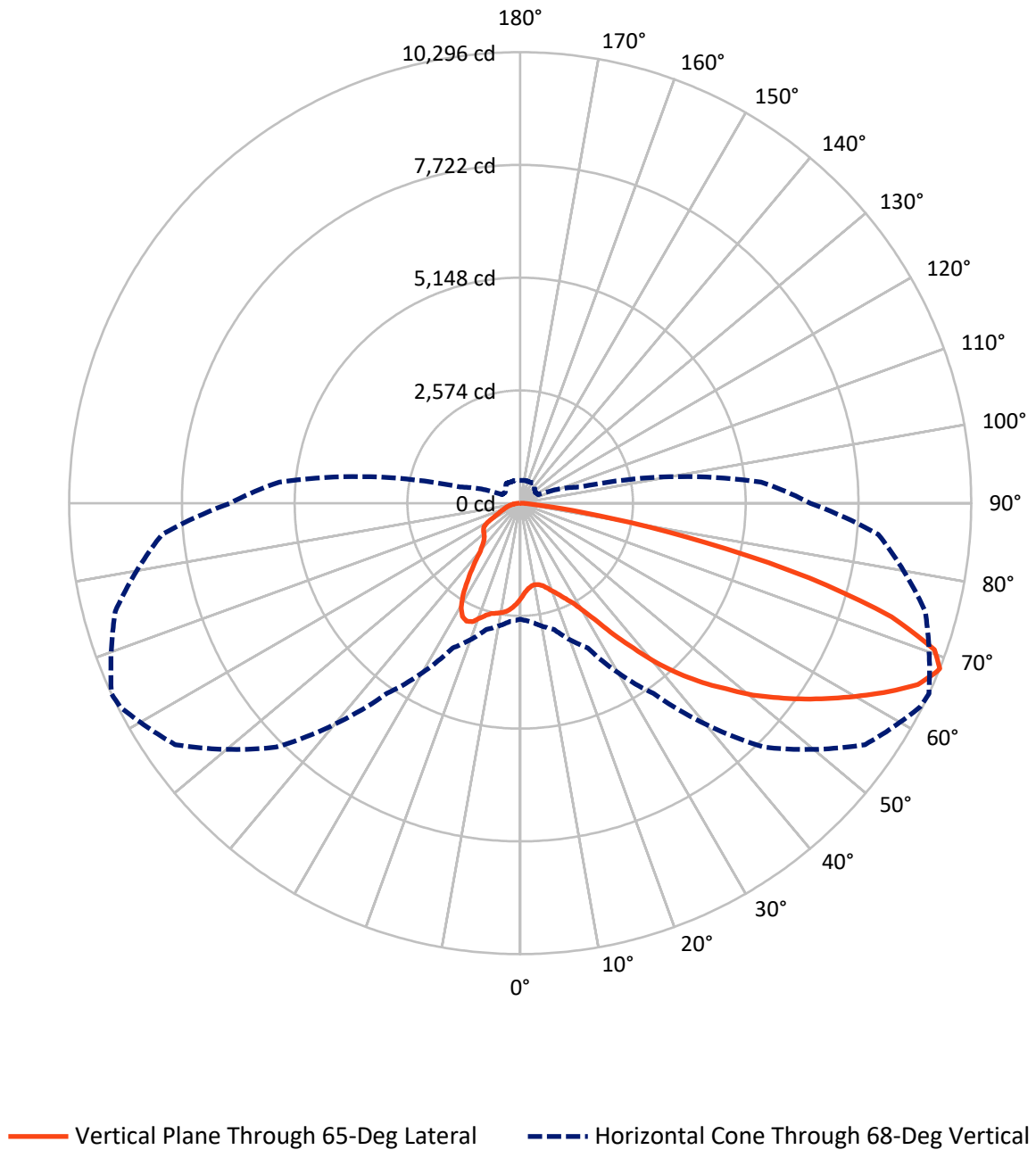


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4165.2	0.0	4165.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12823.8	0.0	12823.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	16989.0	0.0	16989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	1.2
10°-20°	675.6	4.0
20°-30°	1222.7	7.2
30°-40°	1923.4	11.3
40°-50°	2864.7	16.9
50°-60°	3758.0	22.1
60°-70°	4109.6	24.2
70°-80°	2033.5	12.0
80°-90°	194.0	1.1
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°	16989.0	100.0
0°-180°	16989.0	100.0

Coefficient of Utilization



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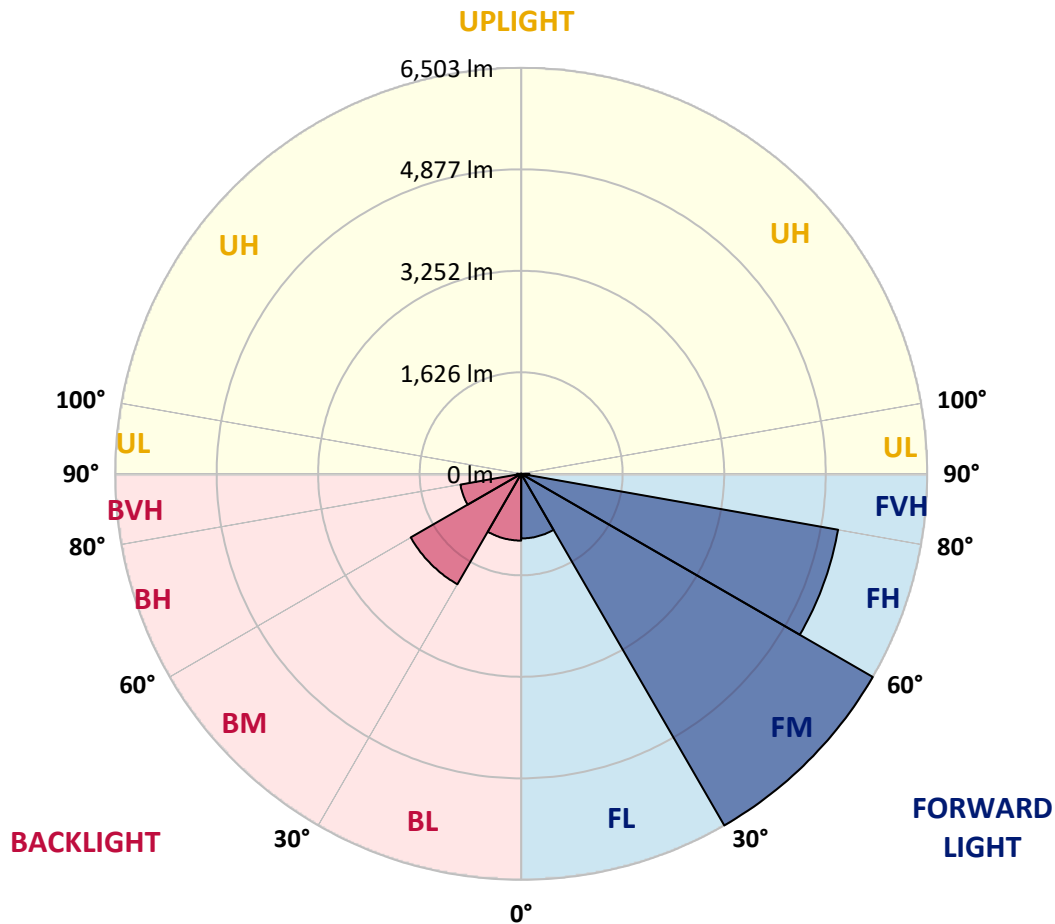
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1035.7	6.1			
FM	(30°-60°)	6503.2	38.3			
FH	(60°-80°)	5154.5	30.3			G3/7500
FVH	(80°-90°)	130.5	0.8			G2/225
BL	(0°-30°)	1070.1	6.3	B3/2500		
BM	(30°-60°)	2043.0	12.0	B2/2500		
BH	(60°-80°)	988.6	5.8	B2/1000		G2/1000
BVH	(80°-90°)	63.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0
2.5°	1895.0	1890.6	1901.5	1912.5	1936.6	1965.1	2004.5	2037.4	2041.7	2103.1	2151.3
5°	1783.2	1776.7	1787.6	1800.8	1811.7	1846.8	1888.4	1936.6	1956.3	2046.1	2149.1
7.5°	1794.2	1792.0	1796.4	1792.0	1792.0	1807.3	1835.8	1884.0	1905.9	2013.3	2160.0
10°	1857.7	1862.1	1864.3	1851.1	1838.0	1831.4	1840.2	1873.1	1888.4	2015.4	2208.2
12.5°	1962.9	1969.4	1971.6	1947.5	1930.0	1901.5	1886.2	1899.3	1910.3	2037.4	2276.1
15°	2105.3	2109.6	2094.3	2079.0	2035.2	2000.1	1962.9	1951.9	1956.3	2083.4	2352.8
17.5°	2271.8	2265.2	2265.2	2227.9	2171.0	2116.2	2054.9	2046.1	2046.1	2157.8	2462.4
20°	2453.6	2460.2	2440.4	2390.1	2333.1	2247.7	2186.3	2146.9	2151.3	2243.3	2596.0
22.5°	2716.5	2727.4	2674.8	2602.6	2514.9	2416.3	2328.7	2265.2	2267.4	2355.0	2734.0
25°	2999.1	3003.5	2970.6	2874.2	2755.9	2615.7	2499.6	2418.5	2416.3	2479.9	2911.4
27.5°	3288.2	3308.0	3242.2	3150.2	3040.7	2865.4	2712.1	2602.6	2585.0	2670.5	3132.7
30°	3586.2	3610.3	3546.7	3456.9	3321.1	3172.1	2990.3	2863.3	2852.3	2966.2	3428.5
32.5°	3886.3	3892.9	3842.5	3768.0	3645.3	3505.1	3358.3	3218.1	3207.2	3393.4	3811.8
35°	4131.7	4151.4	4116.3	4098.8	4009.0	3879.7	3737.3	3656.3	3684.8	3923.6	4309.1
37.5°	4427.4	4447.1	4407.7	4403.3	4374.8	4263.1	4164.5	4171.1	4199.6	4523.8	4832.7
40°	4854.6	4876.5	4775.7	4731.9	4731.9	4622.4	4589.5	4745.1	4782.3	5115.3	5378.2
42.5°	5216.1	5251.1	5192.0	5163.5	5078.1	5001.4	5040.8	5259.9	5323.4	5680.5	5853.6
45°	5391.3	5417.6	5487.7	5571.0	5487.7	5354.1	5503.0	5750.6	5840.4	6201.9	6328.9
47.5°	5485.5	5509.6	5590.7	5814.1	5871.1	5759.4	5969.7	6278.6	6339.9	6718.9	6782.4
50°	5498.7	5575.3	5680.5	5903.9	6164.6	6180.0	6438.5	6815.3	6887.6	7227.1	7181.1
52.5°	5391.3	5422.0	5638.9	6015.7	6304.8	6567.7	6948.9	7330.1	7382.7	7704.7	7533.8
55°	5216.1	5259.9	5476.8	5989.4	6440.7	6935.8	7468.1	7836.1	7895.3	8169.1	7860.2
57.5°	5058.3	5080.2	5312.5	5912.7	6576.5	7303.8	7930.3	8364.1	8403.5	8576.6	8101.2
60°	4883.1	4907.2	5139.4	5748.4	6677.3	7582.0	8412.3	8896.4	8931.5	9006.0	8381.6
62.5°	4429.6	4493.1	4784.5	5476.8	6651.0	7899.7	8927.1	9422.2	9466.0	9385.0	8602.9
65°	3597.1	3687.0	4044.0	4861.2	6405.6	8105.6	9347.7	9906.4	9980.8	9669.8	8662.0
67.5°	2793.1	2856.7	3143.7	3857.8	5544.7	8002.6	9619.4	10239.4	10261.3	9623.8	8333.4
68°	2648.6	2712.1	2985.9	3647.5	5305.9	7880.0	9612.8	10248.1	10296.3	9573.4	8206.4
70°	2026.4	2098.7	2359.4	2889.5	4276.3	7100.1	9211.9	10037.8	10031.2	8964.4	7417.7
72.5°	1266.2	1307.9	1487.5	1822.7	2828.2	5402.3	7818.6	8852.6	8870.2	7308.2	5689.3
75°	804.0	804.0	795.2	882.9	1450.2	3077.9	5811.9	6815.3	6828.4	5117.5	3586.2
77.5°	698.8	679.1	584.9	495.1	578.3	1196.1	3439.4	4401.1	4328.8	2755.9	1702.2
80°	589.3	556.4	479.8	398.7	372.4	374.6	1321.0	2234.5	2138.1	992.4	565.2
82.5°	425.0	396.5	361.5	313.3	287.0	223.5	276.0	646.3	630.9	287.0	184.0
85°	230.0	208.1	203.7	205.9	173.1	138.0	116.1	142.4	142.4	124.9	105.2
87.5°	81.1	59.1	70.1	78.9	67.9	57.0	46.0	54.8	57.0	54.8	50.4
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°	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0	2171.0
2.5°	2179.8	2201.7	2254.2	2300.2	2333.1	2361.6	2376.9	2383.5	2398.8	2401.0	2396.6
5°	2197.3	2254.2	2333.1	2401.0	2438.3	2453.6	2458.0	2460.2	2453.6	2458.0	2453.6
7.5°	2243.3	2315.6	2427.3	2486.4	2493.0	2468.9	2471.1	2462.4	2471.1	2479.9	2479.9
10°	2313.4	2405.4	2510.5	2532.5	2504.0	2490.8	2517.1	2569.7	2587.2	2611.3	2611.3
12.5°	2405.4	2514.9	2589.4	2569.7	2543.4	2587.2	2663.9	2716.5	2734.0	2742.8	2736.2
15°	2510.5	2628.8	2666.1	2600.4	2648.6	2742.8	2769.0	2738.4	2694.6	2674.8	2685.8
17.5°	2644.2	2742.8	2720.9	2677.0	2786.6	2799.7	2714.3	2615.7	2545.6	2519.3	2536.8
20°	2784.4	2869.8	2769.0	2788.8	2856.7	2716.5	2554.4	2427.3	2366.0	2355.0	2372.5
22.5°	2933.4	2988.1	2817.2	2918.0	2817.2	2532.5	2337.5	2271.8	2256.4	2274.0	2289.3
25°	3102.0	3095.5	2900.5	2957.5	2670.5	2306.8	2190.7	2186.3	2186.3	2197.3	2219.2
27.5°	3292.6	3189.7	2983.7	2904.9	2416.3	2120.6	2098.7	2100.9	2094.3	2096.5	2107.5
30°	3513.9	3316.7	3075.7	2731.8	2131.6	1980.4	1971.6	1965.1	1949.7	1945.3	1949.7
32.5°	3792.1	3450.4	3169.9	2447.0	1881.8	1835.8	1831.4	1796.4	1759.1	1754.8	1770.1
35°	4144.8	3693.5	3218.1	2089.9	1675.9	1673.7	1658.4	1603.6	1555.4	1555.4	1544.4
37.5°	4547.9	4006.8	3237.9	1741.6	1505.0	1516.0	1472.2	1402.1	1364.8	1342.9	1349.5
40°	4959.8	4363.9	3235.7	1437.1	1356.0	1358.2	1325.4	1239.9	1147.9	1093.2	1106.3
42.5°	5356.3	4688.1	3178.7	1275.0	1235.6	1229.0	1202.7	1086.6	1009.9	966.1	968.3
45°	5673.9	5023.3	3091.1	1178.6	1126.0	1137.0	1077.8	1007.7	937.6	898.2	896.0
47.5°	5991.6	5277.4	2950.9	1119.4	1045.0	1025.2	1001.2	953.0	900.4	856.6	858.8
50°	6280.7	5494.3	2819.4	1080.0	970.5	920.1	924.5	896.0	850.0	810.6	808.4
52.5°	6484.5	5636.7	2747.1	1058.1	880.7	825.9	841.2	825.9	782.1	753.6	751.4
55°	6688.2	5746.2	2771.2	1029.6	782.1	738.3	764.6	760.2	736.1	727.3	729.5
57.5°	6852.5	5829.5	2856.7	977.1	687.9	661.6	705.4	692.3	674.7	676.9	676.9
60°	7012.4	5936.8	2957.5	856.6	606.8	609.0	650.6	626.5	615.6	635.3	637.5
62.5°	7178.9	6052.9	2874.2	681.3	536.7	552.1	600.3	580.5	584.9	613.4	622.2
65°	7159.2	6042.0	2341.9	558.6	475.4	506.1	578.3	571.8	574.0	584.9	589.3
67.5°	6756.1	5656.4	1610.2	475.4	431.6	468.8	560.8	534.5	536.7	530.2	532.3
68°	6620.3	5520.6	1419.6	462.2	422.8	460.0	552.1	528.0	530.2	523.6	521.4
70°	5879.8	4727.5	898.2	407.5	392.1	436.0	508.2	499.5	497.3	492.9	492.9
72.5°	4482.2	3489.8	473.2	352.7	357.1	398.7	453.5	471.0	460.0	462.2	475.4
75°	2968.4	2098.7	328.6	302.3	313.3	341.7	403.1	438.1	427.2	433.8	427.2
77.5°	1570.7	1130.4	262.9	256.3	256.3	276.0	333.0	387.8	387.8	383.4	376.8
80°	514.8	398.7	210.3	201.5	205.9	216.9	267.3	317.7	324.2	315.5	311.1
82.5°	173.1	184.0	157.7	146.8	151.2	159.9	201.5	243.2	245.4	227.8	223.5
85°	107.3	122.7	98.6	96.4	96.4	98.6	122.7	133.6	122.7	109.5	113.9
87.5°	50.4	61.3	46.0	39.4	32.9	28.5	21.9	8.8	8.8	4.4	4.4
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)