

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: P840880

Luminaire Tested: **ARCH4-100-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840880
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: ARCH4-100-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17602 lumens
Efficiency: N/A
Efficacy: 170.7 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): 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

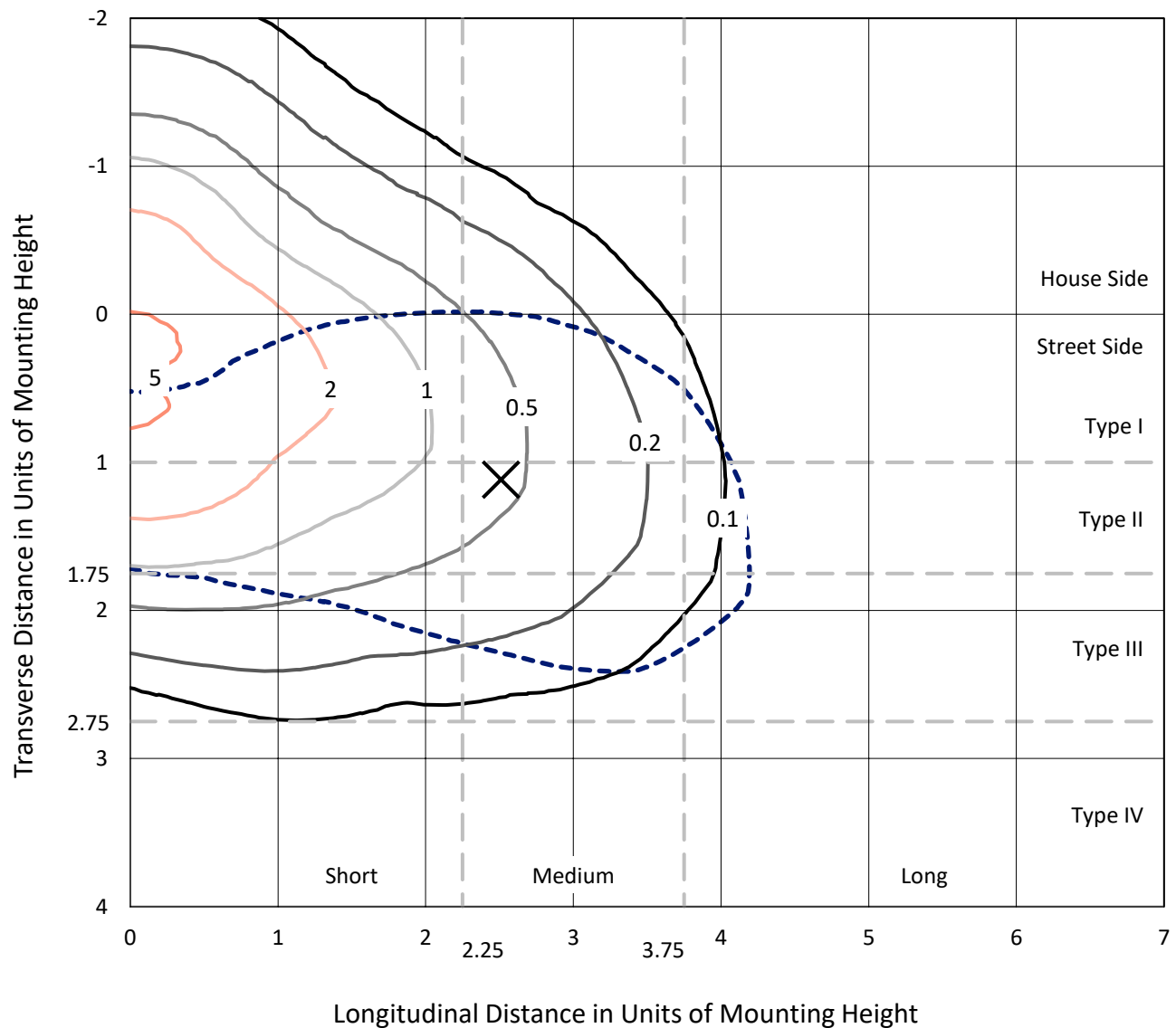


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Iso-Footcandle Lines of Horizontal Illumination

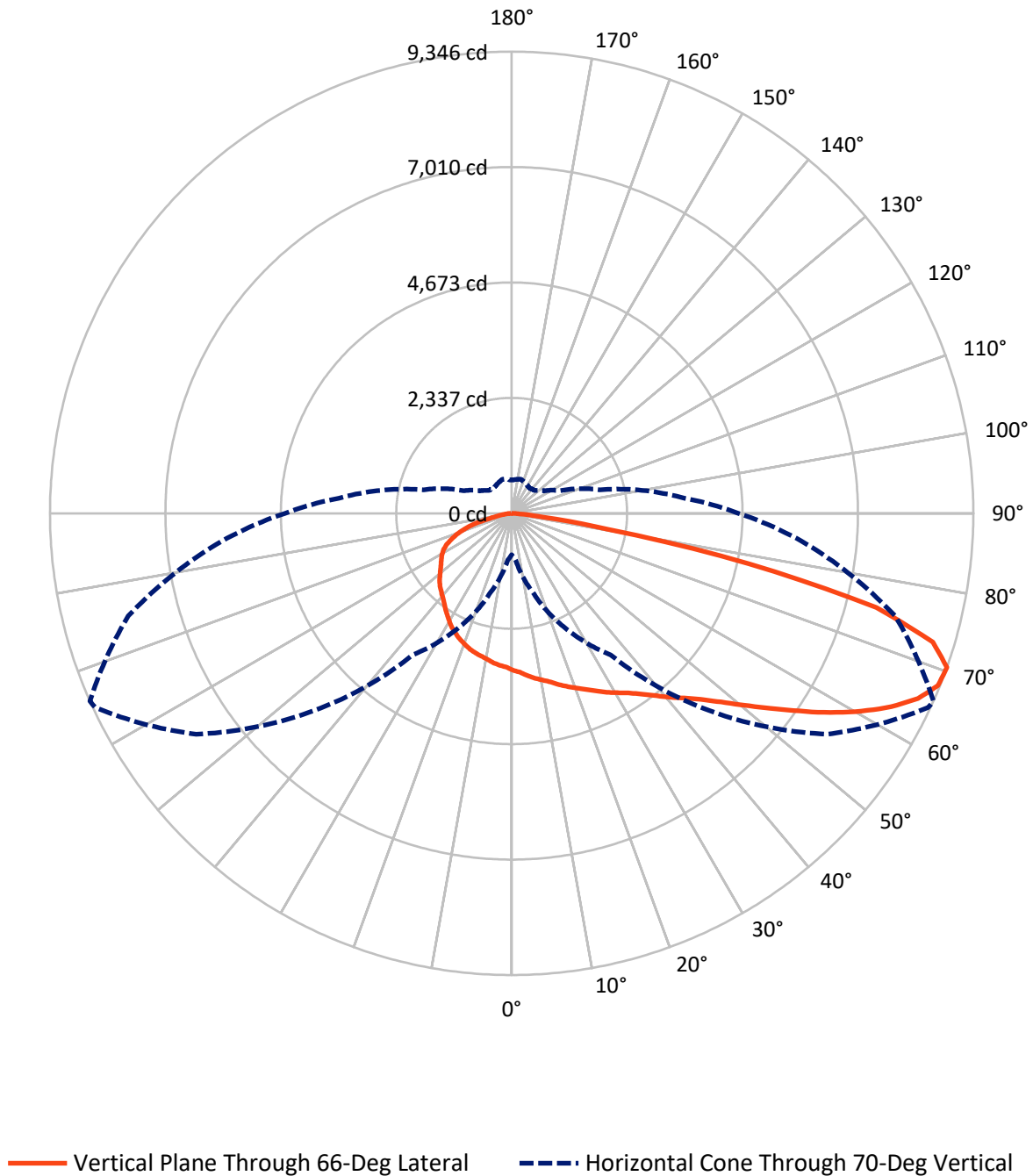
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4664.1	0.0	4664.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	12937.9	0.0	12937.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	17602.0	0.0	17602.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	1.7
10°-20°	915.6	5.2
20°-30°	1534.9	8.7
30°-40°	2298.3	13.1
40°-50°	3072.8	17.5
50°-60°	3587.6	20.4
60°-70°	3567.3	20.3
70°-80°	2111.9	12.0
80°-90°	208.2	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°	17602.0	100.0
0°-180°	17602.0	100.0

Coefficient of Utilization



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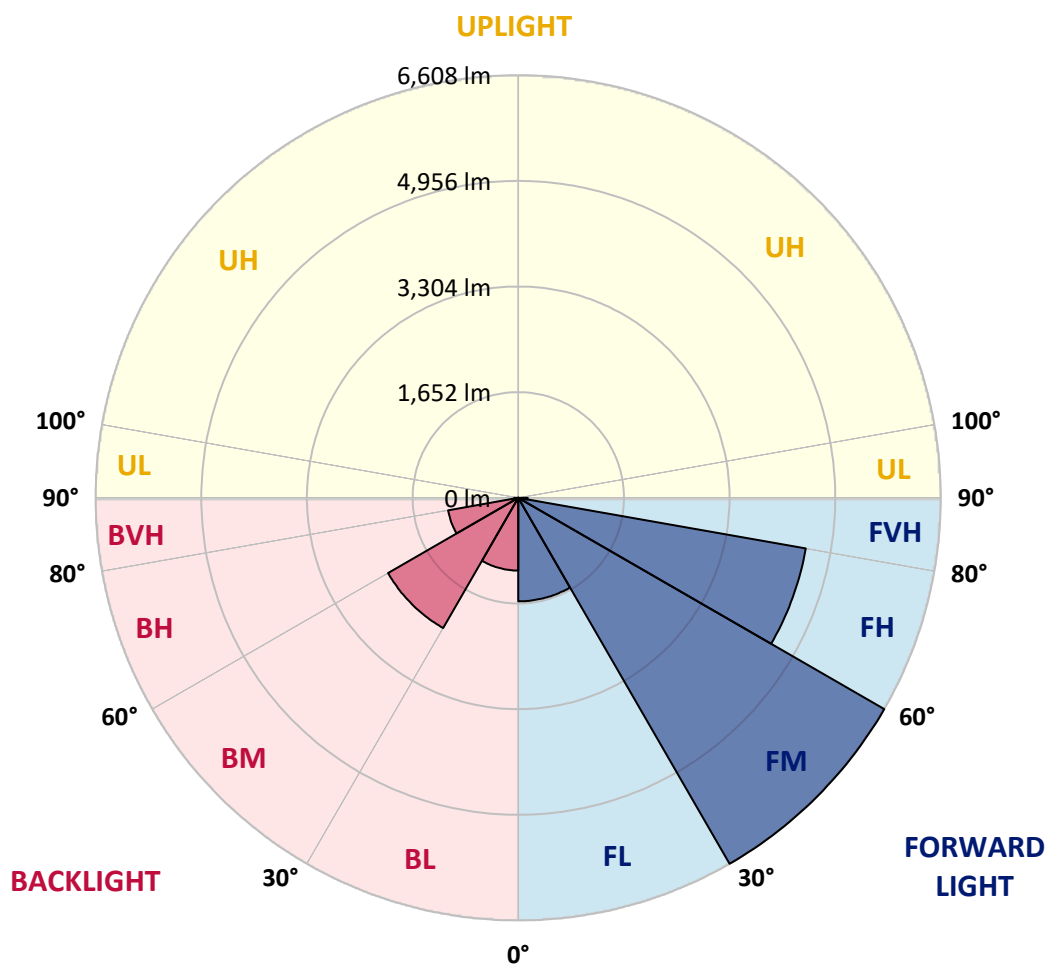
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1618.9	9.2			
FM	(30°-60°)	6607.6	37.5			
FH	(60°-80°)	4565.1	25.9			G2/5000
FVH	(80°-90°)	146.3	0.8			G2/225
BL	(0°-30°)	1136.9	6.5	B3/2500		
BM	(30°-60°)	2351.2	13.4	B2/2500		
BH	(60°-80°)	1114.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	61.9	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°	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8
2.5°	3293.6	3288.4	3285.8	3275.4	3252.0	3262.4	3239.0	3223.5	3220.9	3184.5	3163.8
5°	3428.5	3425.9	3420.7	3405.2	3368.8	3374.0	3335.1	3306.5	3298.7	3241.6	3197.5
7.5°	3542.7	3537.5	3534.9	3514.2	3475.2	3472.6	3425.9	3384.4	3371.4	3293.6	3226.1
10°	3631.0	3623.2	3628.4	3607.6	3566.1	3558.3	3498.6	3444.1	3431.1	3332.5	3239.0
12.5°	3706.2	3701.0	3708.8	3690.6	3656.9	3649.1	3589.4	3519.4	3503.8	3389.6	3267.6
15°	3789.3	3771.1	3786.7	3778.9	3755.5	3752.9	3698.4	3620.6	3599.8	3462.3	3311.7
17.5°	3833.4	3823.0	3841.2	3843.8	3833.4	3851.6	3799.7	3706.2	3688.1	3529.7	3350.7
20°	3864.5	3849.0	3869.7	3885.3	3893.1	3929.4	3887.9	3797.1	3776.3	3594.6	3387.0
22.5°	3971.0	3937.2	3939.8	3950.2	3955.4	4007.3	3981.3	3893.1	3872.3	3675.1	3431.1
25°	4238.3	4170.8	4126.7	4095.5	4059.2	4103.3	4087.7	4002.1	3983.9	3771.1	3485.6
27.5°	4653.5	4567.9	4479.6	4388.8	4246.1	4227.9	4201.9	4124.1	4103.3	3867.1	3540.1
30°	5125.9	5040.3	4936.4	4791.1	4523.8	4383.6	4323.9	4238.3	4214.9	3952.8	3592.0
32.5°	5595.7	5520.4	5416.6	5240.1	4858.6	4573.1	4445.9	4357.7	4334.3	4046.2	3654.3
35°	5961.6	5914.9	5847.4	5626.8	5190.8	4796.3	4622.4	4516.0	4490.0	4194.2	3768.5
37.5°	6257.5	6223.8	6166.7	5935.7	5432.2	5019.5	4824.8	4702.9	4674.3	4355.1	3890.5
40°	6693.5	6605.3	6558.6	6223.8	5642.4	5221.9	5053.2	4926.1	4894.9	4526.4	3989.1
42.5°	7064.7	6999.8	6942.7	6480.7	5842.2	5395.8	5268.6	5151.9	5110.3	4695.1	4095.5
45°	7126.9	7152.9	7124.4	6607.9	6158.9	5567.1	5486.7	5411.4	5372.5	4923.5	4256.4
47.5°	7129.5	7129.5	6960.8	6680.5	6550.8	5759.2	5720.2	5746.2	5704.7	5214.1	4448.5
50°	6942.7	6976.4	6888.2	6698.7	6654.6	5951.2	6005.7	6145.9	6104.4	5523.0	4656.1
52.5°	6556.0	6667.6	6665.0	6670.2	6504.1	6114.7	6306.8	6626.0	6556.0	5870.8	4876.7
55°	5873.4	6096.6	6296.4	6467.7	6374.3	6213.4	6675.3	7137.3	7064.7	6260.1	5099.9
57.5°	5289.4	5432.2	5681.3	6166.7	6221.2	6299.0	7020.5	7672.0	7607.1	6690.9	5333.5
60°	4622.4	4819.6	5068.8	5759.2	6034.3	6410.6	7399.5	8193.7	8131.4	7126.9	5559.3
62.5°	3597.2	3851.6	4349.9	5133.7	5761.8	6480.7	7697.9	8653.0	8624.5	7539.6	5761.8
65°	2507.1	2732.9	3431.1	4365.4	5328.3	6449.5	7936.7	9063.1	9037.2	7877.0	5904.5
67.5°	1463.8	1725.9	2514.9	3514.2	4562.7	6234.1	8014.6	9304.5	9304.5	8082.1	5943.4
70°	835.7	957.7	1658.5	2561.7	3498.6	5639.8	7796.6	9301.9	9346.0	8035.3	5782.5
72.5°	584.0	638.5	1116.0	1723.3	2372.2	4562.7	7225.6	8852.9	8912.6	7594.1	5232.3
75°	454.2	493.1	786.4	1175.7	1494.9	3098.9	5977.2	7464.3	7622.7	6472.9	4230.5
77.5°	345.2	373.7	459.4	734.5	957.7	1780.4	3945.0	4894.9	4905.3	3963.2	2268.4
80°	251.8	280.3	306.3	449.0	508.7	833.1	1489.8	2045.2	1988.1	1918.0	1227.6
82.5°	150.5	179.1	186.9	244.0	249.2	355.6	521.7	659.2	633.3	843.5	576.2
85°	64.9	90.8	96.0	111.6	106.4	145.3	207.6	173.9	155.7	179.1	124.6
87.5°	15.6	26.0	26.0	28.5	23.4	36.3	38.9	28.5	26.0	31.1	31.1
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°	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8	3176.8
2.5°	3158.6	3150.8	3153.4	3109.3	3096.3	3083.3	3075.5	3070.3	3065.2	3072.9	3080.7
5°	3182.0	3163.8	3143.0	3078.1	3052.2	3023.6	3002.9	2984.7	2976.9	2976.9	2984.7
7.5°	3200.1	3169.0	3124.9	3039.2	2992.5	2953.6	2919.8	2896.5	2883.5	2883.5	2891.3
10°	3202.7	3158.6	3088.5	2984.7	2922.4	2865.3	2826.4	2800.4	2782.3	2782.3	2787.5
12.5°	3218.3	3158.6	3067.8	2943.2	2865.3	2795.2	2748.5	2709.6	2701.8	2701.8	2707.0
15°	3244.2	3171.6	3054.8	2906.8	2813.4	2732.9	2681.0	2639.5	2623.9	2634.3	2636.9
17.5°	3267.6	3179.4	3031.4	2860.1	2748.5	2660.3	2603.2	2566.8	2546.1	2569.4	2569.4
20°	3283.2	3179.4	2997.7	2800.4	2678.4	2579.8	2525.3	2481.2	2465.6	2494.2	2496.8
22.5°	3306.5	3176.8	2961.3	2740.7	2603.2	2499.4	2444.9	2411.1	2403.3	2434.5	2444.9
25°	3332.5	3182.0	2922.4	2673.3	2520.1	2418.9	2377.4	2361.8	2367.0	2405.9	2418.9
27.5°	3361.0	3192.3	2883.5	2598.0	2429.3	2338.4	2315.1	2322.9	2343.6	2393.0	2408.5
30°	3387.0	3194.9	2829.0	2509.7	2325.5	2239.8	2250.2	2283.9	2315.1	2364.4	2382.6
32.5°	3420.7	3197.5	2771.9	2413.7	2213.9	2151.6	2198.3	2252.8	2283.9	2330.7	2351.4
35°	3503.8	3241.6	2727.8	2320.3	2110.1	2076.3	2154.2	2224.3	2242.4	2283.9	2302.1
37.5°	3599.8	3314.3	2704.4	2224.3	2008.8	2001.0	2099.7	2169.7	2174.9	2200.9	2219.1
40°	3659.5	3345.5	2678.4	2143.8	1918.0	1923.2	2024.4	2078.9	2068.5	2086.7	2099.7
42.5°	3719.2	3355.8	2623.9	2076.3	1832.3	1837.5	1915.4	1954.3	1959.5	1998.5	2016.6
45°	3820.4	3384.4	2564.2	2014.0	1754.5	1736.3	1783.0	1834.9	1902.4	1977.7	1998.5
47.5°	3955.4	3444.1	2502.0	1938.8	1679.2	1619.5	1637.7	1728.5	1798.6	1868.7	1881.7
50°	4092.9	3503.8	2444.9	1847.9	1604.0	1494.9	1502.7	1585.8	1642.9	1697.4	1705.2
52.5°	4227.9	3555.7	2395.5	1762.3	1518.3	1347.0	1378.2	1463.8	1502.7	1528.7	1536.5
55°	4362.9	3599.8	2351.4	1689.6	1419.7	1230.2	1258.8	1339.2	1378.2	1391.1	1396.3
57.5°	4503.0	3651.7	2317.7	1627.3	1308.1	1126.4	1144.6	1201.7	1238.0	1253.6	1248.4
60°	4619.8	3695.8	2299.5	1562.4	1196.5	1030.4	1025.2	1077.1	1129.0	1144.6	1139.4
62.5°	4710.6	3724.4	2271.0	1479.4	1097.9	934.3	908.4	975.9	1030.4	1040.8	1048.5
65°	4759.9	3727.0	2200.9	1373.0	996.6	830.5	812.4	879.8	913.6	924.0	924.0
67.5°	4752.2	3685.5	2063.3	1230.2	903.2	737.1	721.5	763.0	812.4	820.1	812.4
70°	4591.2	3514.2	1842.7	1079.7	791.6	654.0	625.5	667.0	713.7	685.2	672.2
72.5°	4134.5	3070.3	1518.3	913.6	667.0	550.2	537.2	578.8	581.4	586.6	573.6
75°	3262.4	2286.5	1136.8	711.1	539.8	462.0	459.4	451.6	462.0	482.7	467.2
77.5°	1713.0	1142.0	615.1	436.0	391.9	371.1	353.0	350.4	381.5	394.5	378.9
80°	929.2	641.1	353.0	262.1	238.8	241.4	264.7	259.5	293.3	301.1	288.1
82.5°	404.9	303.7	173.9	158.3	158.3	155.7	163.5	181.7	218.0	218.0	173.9
85°	88.2	75.3	67.5	77.9	88.2	88.2	88.2	88.2	62.3	33.7	23.4
87.5°	28.5	28.5	28.5	31.1	33.7	33.7	28.5	20.8	13.0	2.6	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)