

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: P1211711

Luminaire Tested: **ARCH4-90-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211711
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: ARCH4-90-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15489 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

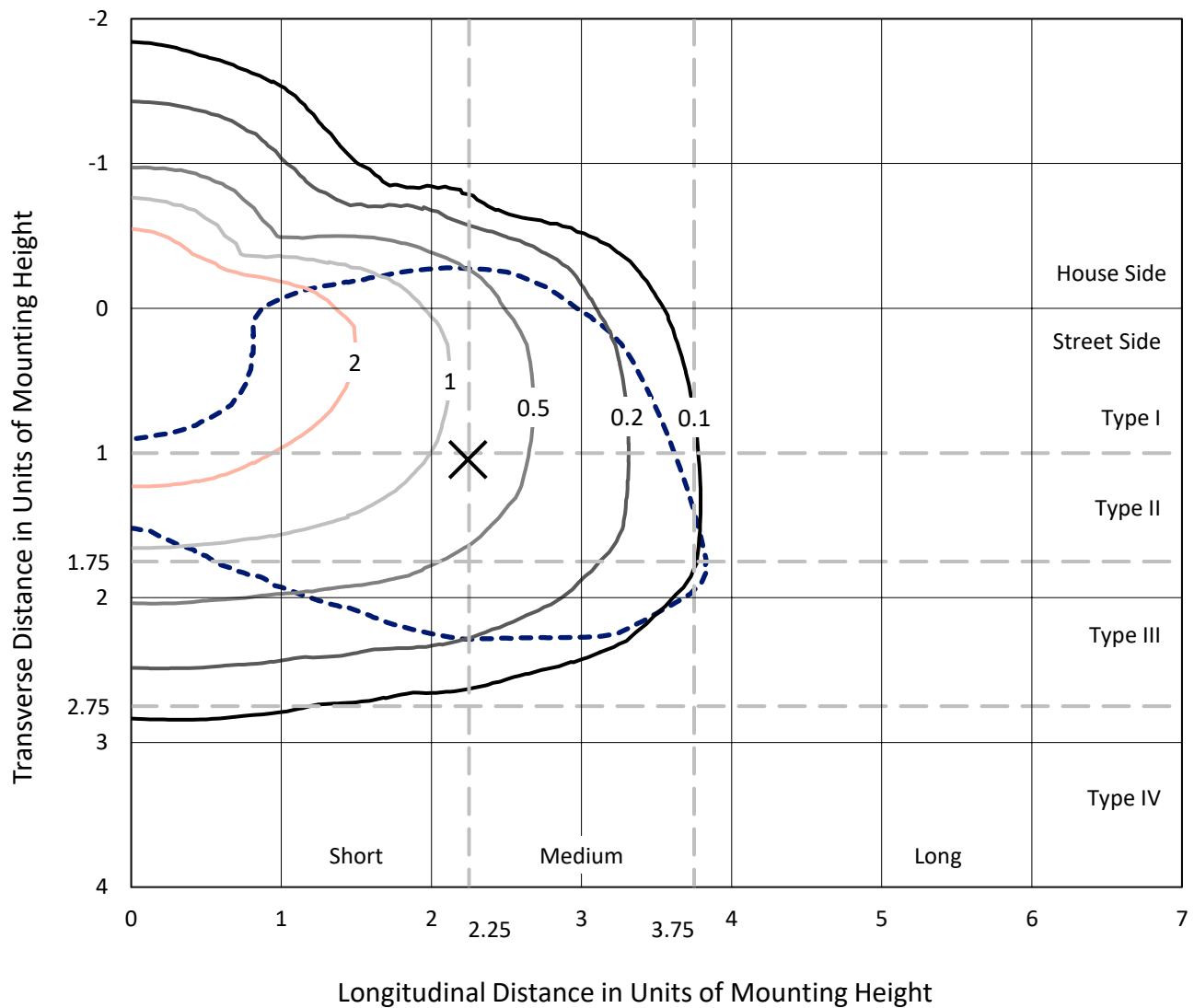


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Iso-Footcandle Lines of Horizontal Illumination

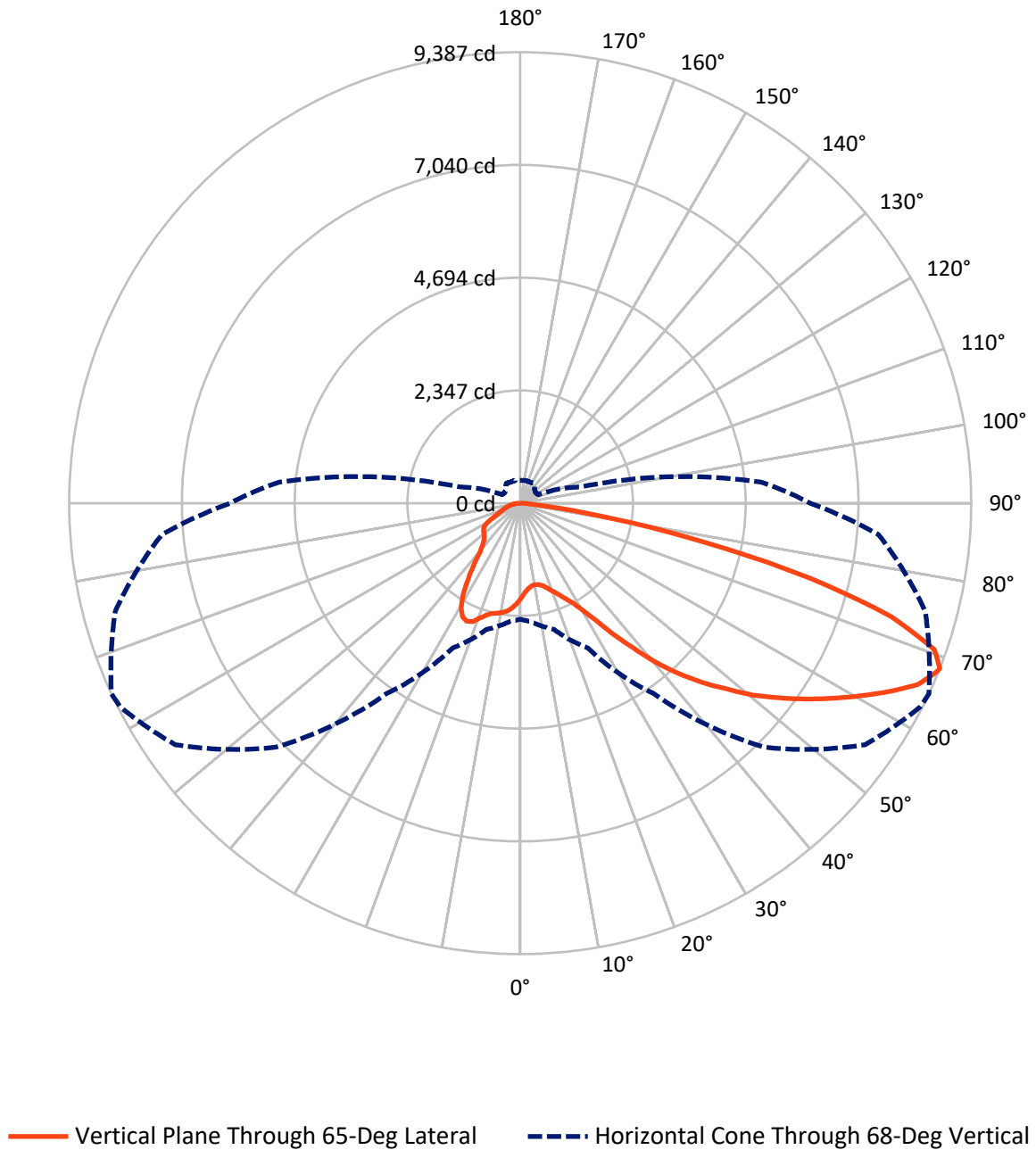
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	3797.5	0.0	3797.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11691.6	0.0	11691.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	15489.0	0.0	15489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.2
10°-20°	615.9	4.0
20°-30°	1114.7	7.2
30°-40°	1753.6	11.3
40°-50°	2611.8	16.9
50°-60°	3426.2	22.1
60°-70°	3746.7	24.2
70°-80°	1854.0	12.0
80°-90°	176.8	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°	15489.0	100.0
0°-180°	15489.0	100.0

Coefficient of Utilization



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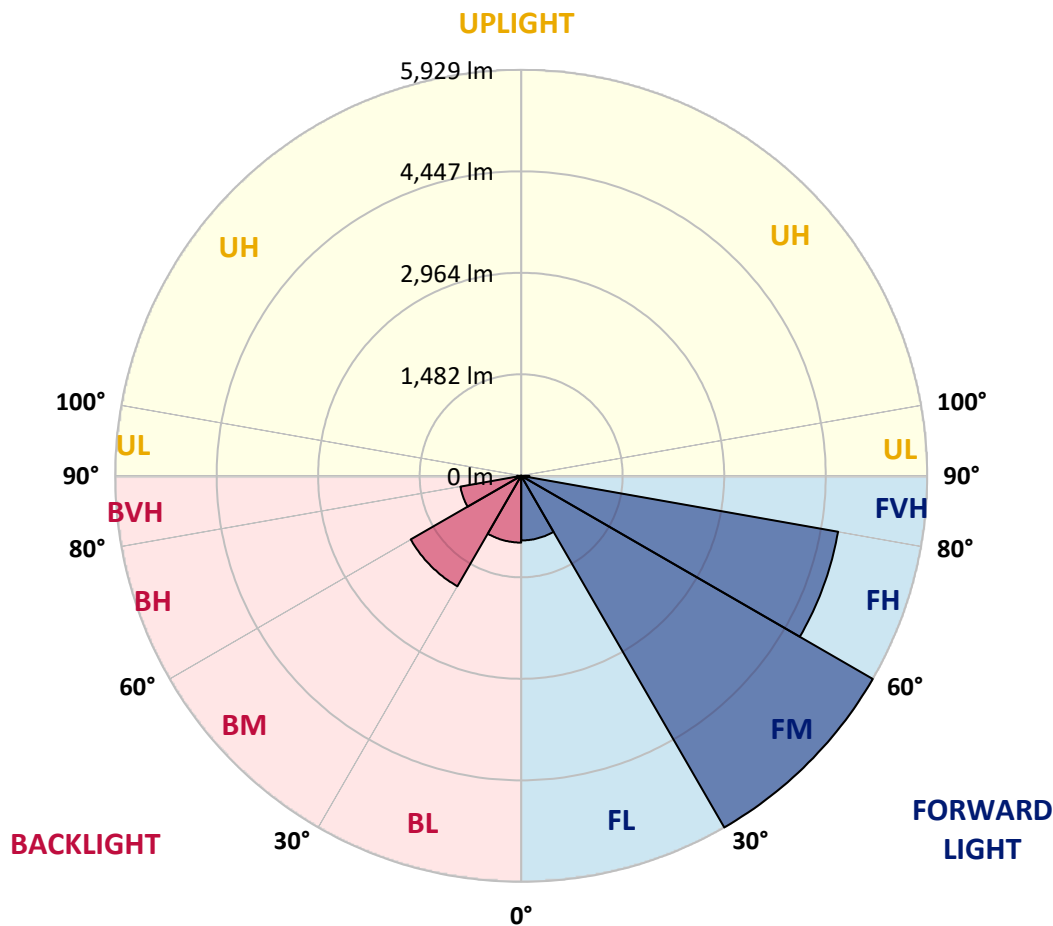
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.2	6.1			
FM	(30°-60°)	5929.0	38.3			
FH	(60°-80°)	4699.4	30.3			G2/5000
FVH	(80°-90°)	118.9	0.8			G2/225
BL	(0°-30°)	975.6	6.3	B2/1000		
BM	(30°-60°)	1862.6	12.0	B2/2500		
BH	(60°-80°)	901.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	57.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3
2.5°	1727.6	1723.7	1733.6	1743.6	1765.6	1791.6	1827.5	1857.5	1861.5	1917.4	1961.3
5°	1625.8	1619.8	1629.8	1641.8	1651.8	1683.7	1721.7	1765.6	1783.6	1865.5	1959.3
7.5°	1635.8	1633.8	1637.8	1633.8	1633.8	1647.8	1673.7	1717.7	1737.6	1835.5	1969.3
10°	1693.7	1697.7	1699.7	1687.7	1675.7	1669.7	1677.7	1707.7	1721.7	1837.5	2013.3
12.5°	1789.6	1795.6	1797.6	1775.6	1759.6	1733.6	1719.7	1731.6	1741.6	1857.5	2075.2
15°	1919.4	1923.4	1909.4	1895.4	1855.5	1823.5	1789.6	1779.6	1783.6	1899.4	2145.1
17.5°	2071.2	2065.2	2065.2	2031.2	1979.3	1929.4	1873.4	1865.5	1865.5	1967.3	2244.9
20°	2237.0	2242.9	2225.0	2179.0	2127.1	2049.2	1993.3	1957.3	1961.3	2045.2	2366.8
22.5°	2476.6	2486.6	2438.7	2372.8	2292.9	2203.0	2123.1	2065.2	2067.2	2147.1	2492.6
25°	2734.3	2738.3	2708.3	2620.4	2512.6	2384.8	2278.9	2205.0	2203.0	2260.9	2654.4
27.5°	2997.9	3015.9	2956.0	2872.1	2772.2	2612.4	2472.6	2372.8	2356.8	2434.7	2856.1
30°	3269.5	3291.5	3233.6	3151.7	3027.9	2892.1	2726.3	2610.4	2600.5	2704.3	3125.7
32.5°	3543.2	3549.2	3503.2	3435.3	3323.5	3195.7	3061.8	2934.0	2924.0	3093.8	3475.3
35°	3766.9	3784.8	3752.9	3736.9	3655.0	3537.2	3407.4	3333.5	3359.4	3577.1	3928.7
37.5°	4036.5	4054.5	4018.5	4014.5	3988.6	3886.7	3796.8	3802.8	3828.8	4124.4	4406.0
40°	4426.0	4445.9	4354.1	4314.1	4314.1	4214.3	4184.3	4326.1	4360.1	4663.7	4903.3
42.5°	4755.5	4787.5	4733.6	4707.6	4629.7	4559.8	4595.7	4795.5	4853.4	5179.0	5336.7
45°	4915.3	4939.3	5003.2	5079.1	5003.2	4881.4	5017.2	5242.9	5324.8	5654.3	5770.1
47.5°	5001.2	5023.2	5097.1	5300.8	5352.7	5250.9	5442.6	5724.2	5780.1	6125.7	6183.6
50°	5013.2	5083.1	5179.0	5382.7	5620.3	5634.3	5870.0	6213.5	6279.5	6589.0	6547.1
52.5°	4915.3	4943.3	5141.0	5484.5	5748.2	5987.8	6335.4	6682.9	6730.8	7024.4	6868.7
55°	4755.5	4795.5	4993.2	5460.6	5872.0	6323.4	6808.7	7144.3	7198.2	7447.9	7166.2
57.5°	4611.7	4631.7	4843.4	5390.7	5995.8	6658.9	7230.2	7625.6	7661.6	7819.4	7385.9
60°	4451.9	4473.9	4685.6	5240.9	6087.7	6912.6	7669.6	8111.0	8142.9	8210.8	7641.6
62.5°	4038.5	4096.4	4362.1	4993.2	6063.7	7202.2	8138.9	8590.3	8630.3	8556.4	7843.3
65°	3279.5	3361.4	3687.0	4432.0	5840.1	7389.9	8522.4	9031.7	9099.6	8816.0	7897.3
67.5°	2546.5	2604.5	2866.1	3517.2	5055.1	7296.1	8770.1	9335.3	9355.3	8774.1	7597.7
68°	2414.7	2472.6	2722.3	3325.5	4837.4	7184.2	8764.1	9343.3	9387.2	8728.1	7481.8
70°	1847.5	1913.4	2151.1	2634.4	3898.7	6473.2	8398.6	9151.5	9145.6	8172.9	6762.8
72.5°	1154.4	1192.4	1356.2	1661.7	2578.5	4925.3	7128.3	8071.0	8087.0	6662.9	5186.9
75°	733.0	733.0	725.0	804.9	1322.2	2806.2	5298.8	6213.5	6225.5	4665.6	3269.5
77.5°	637.1	619.2	533.3	451.4	527.3	1090.5	3135.7	4012.5	3946.6	2512.6	1551.9
80°	537.3	507.3	437.4	363.5	339.5	341.5	1204.4	2037.2	1949.3	904.8	515.3
82.5°	387.5	361.5	329.6	285.6	261.6	203.7	251.7	589.2	575.2	261.6	167.8
85°	209.7	189.7	185.7	187.7	157.8	125.8	105.9	129.8	129.8	113.8	95.9
87.5°	73.9	53.9	63.9	71.9	61.9	51.9	41.9	49.9	51.9	49.9	45.9
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°	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3
2.5°	1987.3	2007.3	2055.2	2097.1	2127.1	2153.1	2167.1	2173.0	2187.0	2189.0	2185.0
5°	2003.3	2055.2	2127.1	2189.0	2223.0	2237.0	2240.9	2242.9	2237.0	2240.9	2237.0
7.5°	2045.2	2111.1	2213.0	2266.9	2272.9	2250.9	2252.9	2244.9	2252.9	2260.9	2260.9
10°	2109.1	2193.0	2288.9	2308.9	2282.9	2270.9	2294.9	2342.8	2358.8	2380.8	2380.8
12.5°	2193.0	2292.9	2360.8	2342.8	2318.8	2358.8	2428.7	2476.6	2492.6	2500.6	2494.6
15°	2288.9	2396.7	2430.7	2370.8	2414.7	2500.6	2524.6	2496.6	2456.7	2438.7	2448.7
17.5°	2410.7	2500.6	2480.6	2440.7	2540.5	2552.5	2474.6	2384.8	2320.8	2296.9	2312.9
20°	2538.5	2616.4	2524.6	2542.5	2604.5	2476.6	2328.8	2213.0	2157.1	2147.1	2163.1
22.5°	2674.4	2724.3	2568.5	2660.4	2568.5	2308.9	2131.1	2071.2	2057.2	2073.2	2087.2
25°	2828.2	2822.2	2644.4	2696.3	2434.7	2103.1	1997.3	1993.3	1993.3	2003.3	2023.2
27.5°	3001.9	2908.0	2720.3	2648.4	2203.0	1933.4	1913.4	1915.4	1909.4	1911.4	1921.4
30°	3203.6	3023.9	2804.2	2490.6	1943.4	1805.5	1797.6	1791.6	1777.6	1773.6	1777.6
32.5°	3457.3	3145.7	2890.1	2231.0	1715.7	1673.7	1669.7	1637.8	1603.8	1599.8	1613.8
35°	3778.9	3367.4	2934.0	1905.4	1527.9	1525.9	1511.9	1462.0	1418.1	1418.1	1408.1
37.5°	4146.4	3653.0	2952.0	1587.8	1372.1	1382.1	1342.2	1278.3	1244.3	1224.3	1230.3
40°	4521.8	3978.6	2950.0	1310.2	1236.3	1238.3	1208.4	1130.5	1046.6	996.6	1008.6
42.5°	4883.4	4274.2	2898.1	1162.4	1126.5	1120.5	1096.5	990.7	920.7	880.8	882.8
45°	5173.0	4579.8	2818.2	1074.5	1026.6	1036.6	982.7	918.7	854.8	818.9	816.9
47.5°	5462.6	4811.5	2690.3	1020.6	952.7	934.7	912.8	868.8	820.9	780.9	782.9
50°	5726.2	5009.2	2570.5	984.7	884.8	838.9	842.9	816.9	774.9	739.0	737.0
52.5°	5912.0	5139.0	2504.6	964.7	802.9	753.0	767.0	753.0	713.0	687.1	685.1
55°	6097.7	5238.9	2526.6	938.7	713.0	673.1	697.1	693.1	671.1	663.1	665.1
57.5°	6247.5	5314.8	2604.5	890.8	627.1	603.2	643.1	631.1	615.2	617.2	617.2
60°	6393.3	5412.6	2696.3	780.9	553.2	555.2	593.2	571.2	561.2	579.2	581.2
62.5°	6545.1	5518.5	2620.4	621.2	489.3	503.3	547.3	529.3	533.3	559.2	567.2
65°	6527.1	5508.5	2135.1	509.3	433.4	461.4	527.3	521.3	523.3	533.3	537.3
67.5°	6159.6	5157.0	1468.0	433.4	393.5	427.4	511.3	487.3	489.3	483.3	485.3
68°	6035.8	5033.1	1294.2	421.4	385.5	419.4	503.3	481.3	483.3	477.4	475.4
70°	5360.7	4310.1	818.9	371.5	357.5	397.5	463.4	455.4	453.4	449.4	449.4
72.5°	4086.4	3181.7	431.4	321.6	325.6	363.5	413.4	429.4	419.4	421.4	433.4
75°	2706.3	1913.4	299.6	275.6	285.6	311.6	367.5	399.5	389.5	395.5	389.5
77.5°	1432.1	1030.6	239.7	233.7	233.7	251.7	303.6	353.5	353.5	349.5	343.5
80°	469.4	363.5	191.7	183.7	187.7	197.7	243.7	289.6	295.6	287.6	283.6
82.5°	157.8	167.8	143.8	133.8	137.8	145.8	183.7	221.7	223.7	207.7	203.7
85°	97.9	111.8	89.9	87.9	87.9	89.9	111.8	121.8	111.8	99.9	103.9
87.5°	45.9	55.9	41.9	36.0	30.0	26.0	20.0	8.0	8.0	4.0	4.0
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)