

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: P799221

Luminaire Tested: **ARCH2-100-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11114 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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

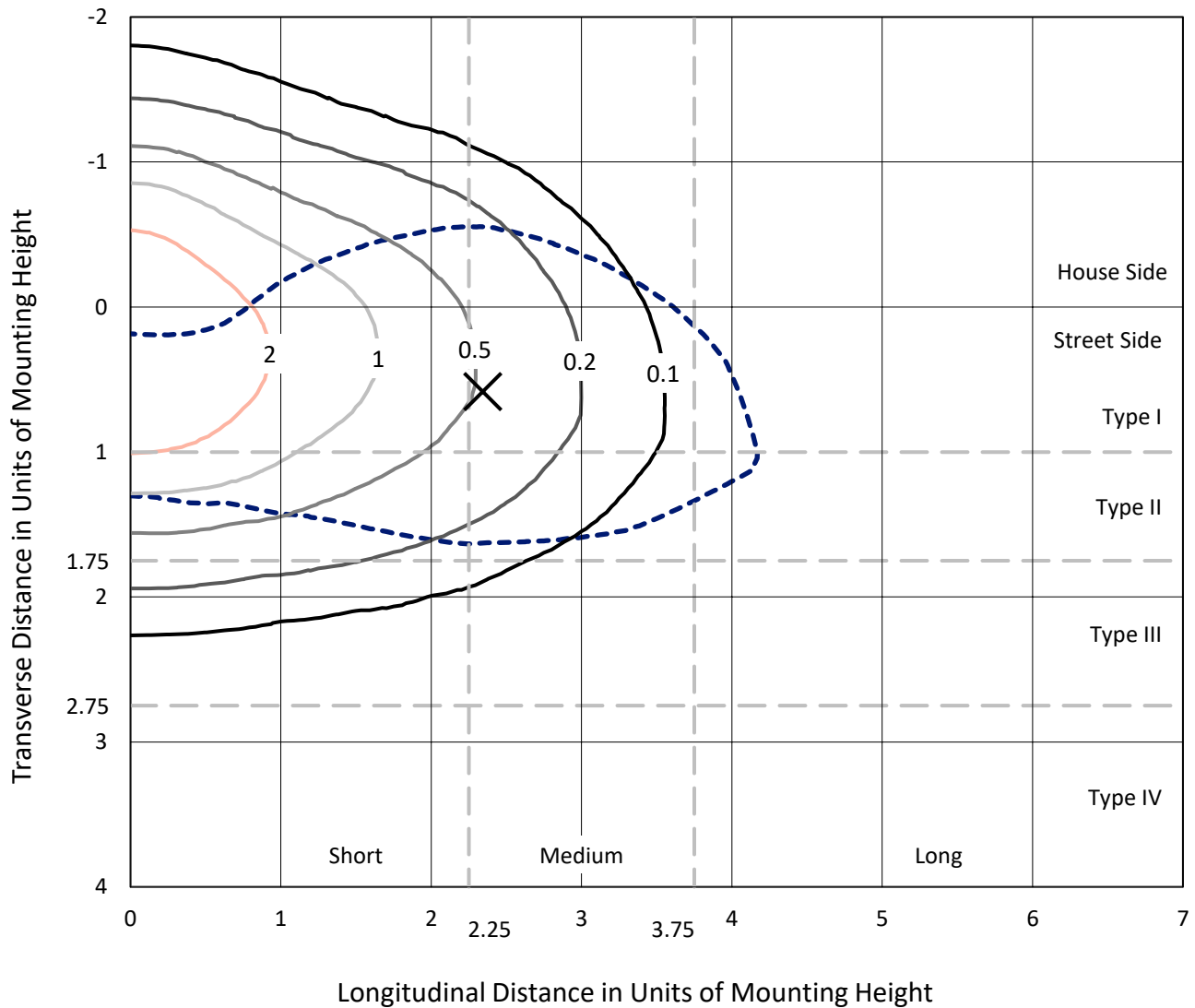


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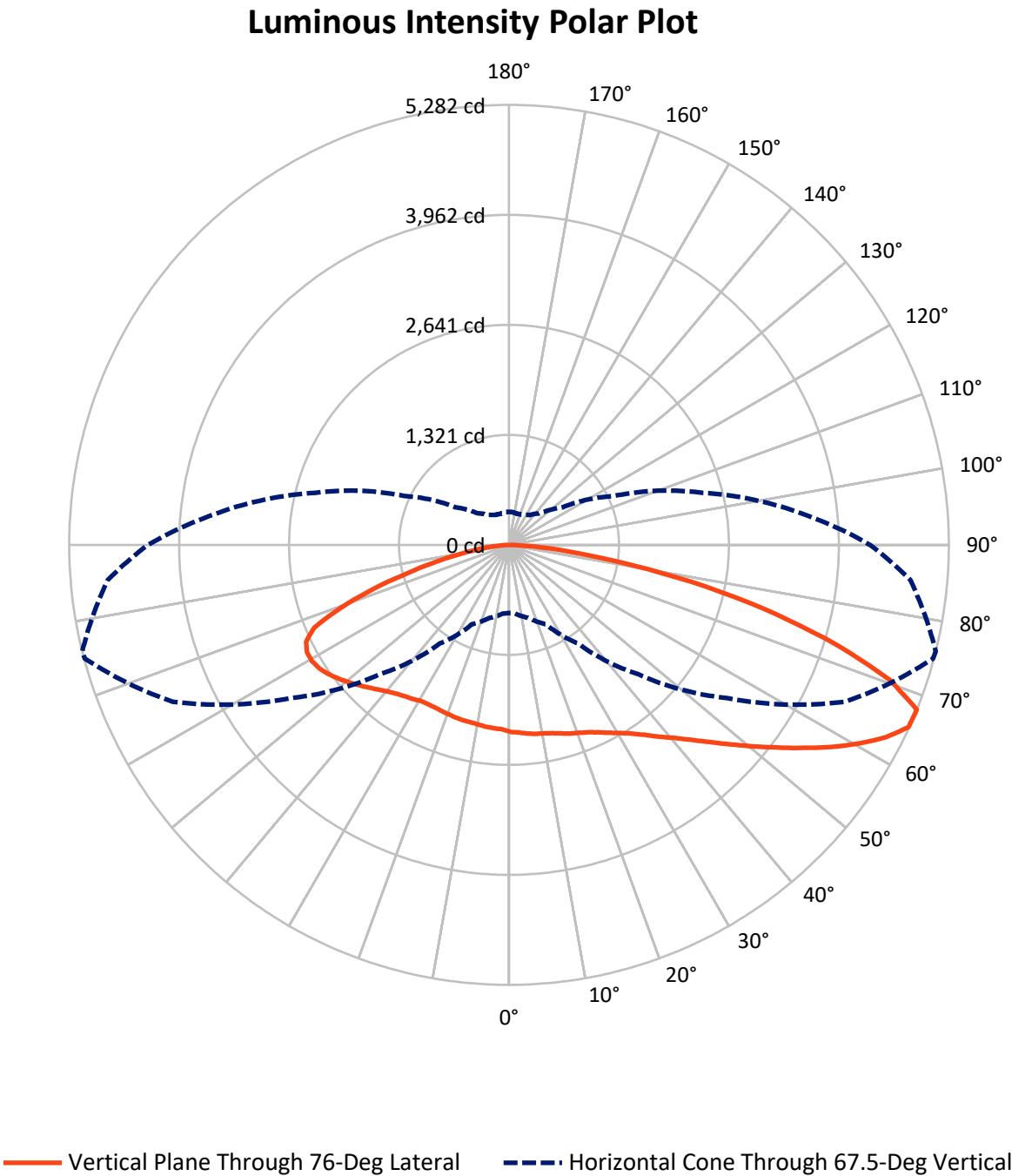
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3755.5	0.0	3755.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7358.5	0.0	7358.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	11114.0	0.0	11114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.9
10°-20°	661.8	6.0
20°-30°	1124.5	10.1
30°-40°	1600.0	14.4
40°-50°	2020.7	18.2
50°-60°	2187.8	19.7
60°-70°	2034.9	18.3
70°-80°	1092.9	9.8
80°-90°	175.1	1.6
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°	11114.0	100.0
0°-180°	11114.0	100.0

Coefficient of Utilization



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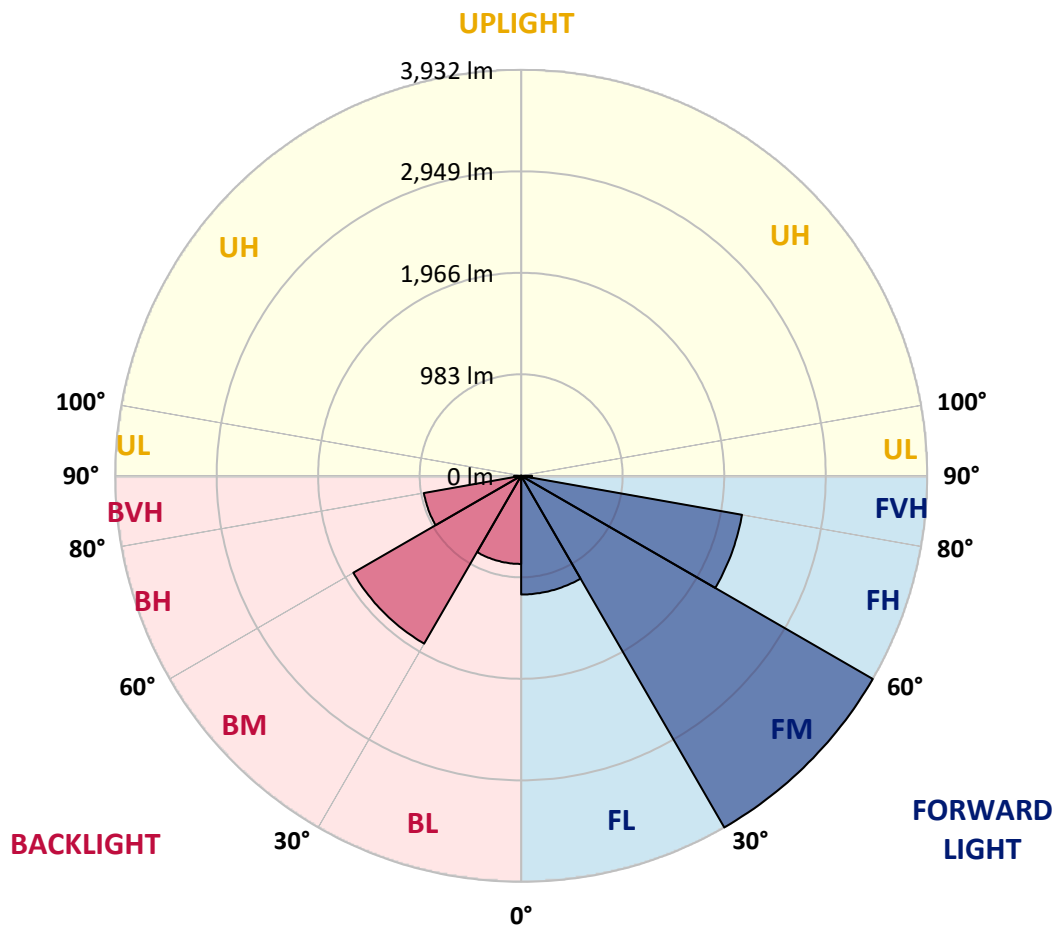
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1149.3	10.3			
FM	(30°-60°)	3931.7	35.4			
FH	(60°-80°)	2171.6	19.5			G2/5000
FVH	(80°-90°)	105.9	1.0			G2/225
BL	(0°-30°)	853.4	7.7	B2/1000		
BM	(30°-60°)	1876.7	16.9	B2/2500		
BH	(60°-80°)	956.2	8.6	B2/1000		G2/1000
BVH	(80°-90°)	69.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0
2.5°	2313.1	2309.0	2292.5	2294.5	2294.5	2292.5	2267.7	2257.4	2257.4	2255.3	2232.6
5°	2395.6	2389.4	2370.9	2366.7	2358.5	2348.2	2309.0	2286.3	2276.0	2273.9	2242.9
7.5°	2492.6	2484.4	2461.7	2449.3	2428.6	2401.8	2352.3	2317.2	2292.5	2290.4	2247.1
10°	2589.6	2581.3	2554.5	2531.8	2502.9	2459.6	2395.6	2344.0	2304.8	2300.7	2249.1
12.5°	2705.1	2696.9	2663.9	2635.0	2591.7	2533.9	2449.3	2379.1	2325.5	2319.3	2255.3
15°	2826.9	2814.5	2781.5	2748.5	2694.8	2620.5	2519.4	2426.6	2358.5	2348.2	2273.9
17.5°	2928.0	2911.5	2884.7	2851.6	2791.8	2705.1	2589.6	2474.0	2389.4	2381.2	2292.5
20°	3014.7	3002.3	2973.4	2942.4	2878.5	2783.6	2655.6	2521.5	2418.3	2408.0	2306.9
22.5°	3097.2	3080.7	3064.2	3041.5	2971.3	2866.1	2732.0	2579.3	2455.5	2443.1	2325.5
25°	3192.1	3173.5	3167.4	3155.0	3072.4	2965.1	2824.8	2651.5	2507.1	2492.6	2358.5
27.5°	3309.7	3289.1	3276.7	3276.7	3177.7	3066.2	2923.9	2736.1	2566.9	2554.5	2399.8
30°	3433.5	3408.8	3390.2	3390.2	3278.8	3167.4	3020.9	2820.7	2635.0	2620.5	2453.4
32.5°	3542.9	3518.1	3497.5	3495.4	3379.9	3268.5	3122.0	2913.6	2717.5	2699.0	2519.4
35°	3627.5	3604.8	3586.2	3590.4	3481.0	3371.6	3235.4	3037.4	2820.7	2800.1	2606.1
37.5°	3679.1	3670.8	3660.5	3675.0	3573.8	3470.7	3353.1	3157.0	2938.3	2919.7	2713.4
40°	3705.9	3699.7	3741.0	3759.6	3652.3	3559.4	3470.7	3280.8	3066.2	3045.6	2837.2
42.5°	3745.1	3796.7	3813.2	3809.1	3710.0	3627.5	3578.0	3415.0	3216.9	3198.3	2985.8
45°	3604.8	3592.4	3683.2	3732.7	3714.2	3670.8	3679.1	3575.9	3392.3	3373.7	3157.0
47.5°	3417.0	3400.5	3452.1	3573.8	3646.1	3687.3	3769.9	3743.0	3594.5	3578.0	3357.2
50°	3020.9	3043.5	3235.4	3398.5	3540.8	3683.2	3846.2	3922.6	3817.3	3800.8	3571.8
52.5°	2581.3	2604.0	2804.2	3179.7	3412.9	3652.3	3901.9	4102.1	4058.8	4040.2	3800.8
55°	2261.5	2311.0	2538.0	2810.4	3231.3	3555.3	3934.9	4285.7	4318.7	4302.2	4050.5
57.5°	1943.7	1980.9	2152.1	2393.6	2983.7	3386.1	3932.9	4457.0	4591.1	4574.6	4304.3
60°	1570.3	1617.7	1753.9	2013.9	2653.6	3183.9	3875.1	4591.1	4853.2	4840.8	4549.8
62.5°	1314.4	1328.8	1425.8	1650.7	2228.5	2928.0	3745.1	4663.3	5090.5	5082.2	4770.6
65°	1058.5	1060.6	1149.3	1337.1	1817.9	2610.2	3524.3	4636.5	5270.0	5274.1	4929.5
67.5°	817.1	827.4	907.9	1050.3	1444.4	2197.5	3208.6	4454.9	5272.0	5282.4	4838.7
70°	565.4	573.6	695.4	833.6	1116.3	1751.8	2781.5	3974.2	4838.7	4847.0	4337.3
72.5°	398.2	402.4	532.4	666.5	872.8	1320.6	2098.5	3287.0	4124.8	4131.0	3648.1
75°	297.1	301.3	375.5	505.5	668.5	914.1	1434.1	2517.4	3295.3	3295.3	2880.5
77.5°	210.5	212.5	243.5	348.7	445.7	617.0	862.5	1648.7	2418.3	2422.5	2098.5
80°	142.4	144.4	158.9	235.2	278.6	334.3	468.4	864.6	1524.9	1531.1	1333.0
82.5°	74.3	78.4	88.7	119.7	140.3	185.7	241.4	439.5	843.9	860.4	800.6
85°	28.9	28.9	33.0	39.2	51.6	72.2	111.4	167.1	381.7	394.1	352.8
87.5°	10.3	10.3	12.4	12.4	14.4	16.5	18.6	24.8	43.3	43.3	41.3
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°	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0	2245.0
2.5°	2224.4	2224.4	2214.1	2218.2	2216.1	2212.0	2207.9	2214.1	2207.9	2193.4	2191.4
5°	2228.5	2224.4	2207.9	2205.8	2199.6	2191.4	2181.0	2185.2	2174.8	2162.5	2160.4
7.5°	2230.6	2222.3	2199.6	2191.4	2179.0	2162.5	2146.0	2146.0	2131.5	2119.1	2117.1
10°	2226.4	2216.1	2185.2	2168.7	2146.0	2121.2	2098.5	2092.3	2075.8	2061.4	2061.4
12.5°	2228.5	2214.1	2174.8	2148.0	2117.1	2086.1	2057.2	2049.0	2034.5	2020.1	2018.0
15°	2240.9	2220.2	2170.7	2135.6	2090.2	2055.2	2024.2	2018.0	2005.6	1995.3	1995.3
17.5°	2253.3	2226.4	2164.5	2115.0	2059.3	2020.1	1991.2	1991.2	1982.9	1976.8	1976.8
20°	2259.4	2228.5	2152.1	2086.1	2022.2	1980.9	1954.1	1958.2	1956.1	1954.1	1954.1
22.5°	2273.9	2232.6	2141.8	2059.3	1982.9	1939.6	1914.9	1921.0	1919.0	1919.0	1921.0
25°	2296.6	2242.9	2133.6	2034.5	1945.8	1898.3	1871.5	1875.7	1875.7	1875.7	1875.7
27.5°	2327.5	2263.6	2131.5	2011.8	1908.7	1855.0	1822.0	1822.0	1813.7	1815.8	1817.9
30°	2375.0	2302.8	2135.6	1991.2	1869.5	1801.4	1762.2	1756.0	1753.9	1758.0	1760.1
32.5°	2432.8	2356.4	2160.4	1976.8	1828.2	1741.5	1692.0	1689.9	1683.8	1683.8	1683.8
35°	2505.0	2408.0	2183.1	1974.7	1786.9	1677.6	1623.9	1617.7	1603.3	1597.1	1597.1
37.5°	2597.8	2488.5	2209.9	1960.3	1751.8	1615.7	1551.7	1531.1	1514.6	1512.5	1512.5
40°	2711.3	2579.3	2249.1	1943.7	1714.7	1551.7	1467.1	1432.0	1434.1	1442.3	1442.3
42.5°	2845.5	2690.7	2298.7	1935.5	1661.1	1485.7	1368.0	1326.8	1341.2	1349.5	1351.5
45°	3002.3	2822.8	2354.4	1925.2	1611.5	1411.4	1262.8	1211.2	1217.4	1219.5	1221.5
47.5°	3183.9	2969.3	2412.1	1916.9	1555.8	1318.5	1147.3	1079.2	1077.1	1064.7	1068.9
50°	3373.7	3124.0	2472.0	1902.5	1487.7	1209.2	1025.5	945.0	928.5	910.0	912.0
52.5°	3575.9	3282.9	2527.7	1879.8	1403.1	1097.7	910.0	823.3	790.3	769.7	773.8
55°	3798.8	3445.9	2581.3	1844.7	1314.4	986.3	806.8	718.1	676.8	660.3	662.4
57.5°	4003.0	3602.7	2620.5	1801.4	1217.4	885.2	716.0	629.3	602.5	600.5	602.5
60°	4201.1	3734.8	2637.1	1741.5	1118.4	792.4	631.4	565.4	546.8	557.1	559.2
62.5°	4368.3	3819.4	2628.8	1661.1	1017.3	703.6	563.3	515.9	503.5	524.1	526.2
65°	4465.2	3846.2	2571.0	1545.5	907.9	617.0	499.3	447.8	441.6	454.0	460.1
67.5°	4337.3	3679.1	2414.2	1386.6	786.2	536.5	437.4	396.2	385.9	396.2	396.2
70°	3844.2	3188.0	2042.8	1134.9	652.0	458.1	379.7	350.8	342.5	350.8	348.7
72.5°	3202.4	2651.5	1609.5	885.2	513.8	385.9	330.1	303.3	295.1	286.8	282.7
75°	2484.4	2013.9	1167.9	650.0	387.9	309.5	276.5	251.7	231.1	239.4	235.2
77.5°	1819.9	1413.4	827.4	449.8	278.6	239.4	216.7	198.1	183.6	200.2	198.1
80°	1172.0	914.1	553.0	301.3	191.9	167.1	158.9	148.6	163.0	212.5	216.7
82.5°	716.0	579.8	330.1	196.0	125.9	111.4	103.2	103.2	167.1	183.6	185.7
85°	319.8	307.4	179.5	101.1	70.2	64.0	57.8	74.3	68.1	49.5	51.6
87.5°	51.6	53.6	39.2	35.1	26.8	26.8	20.6	14.4	10.3	6.2	6.2
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)