

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: P478411

Luminaire Tested: **IFLD-M-SA4B-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478411
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

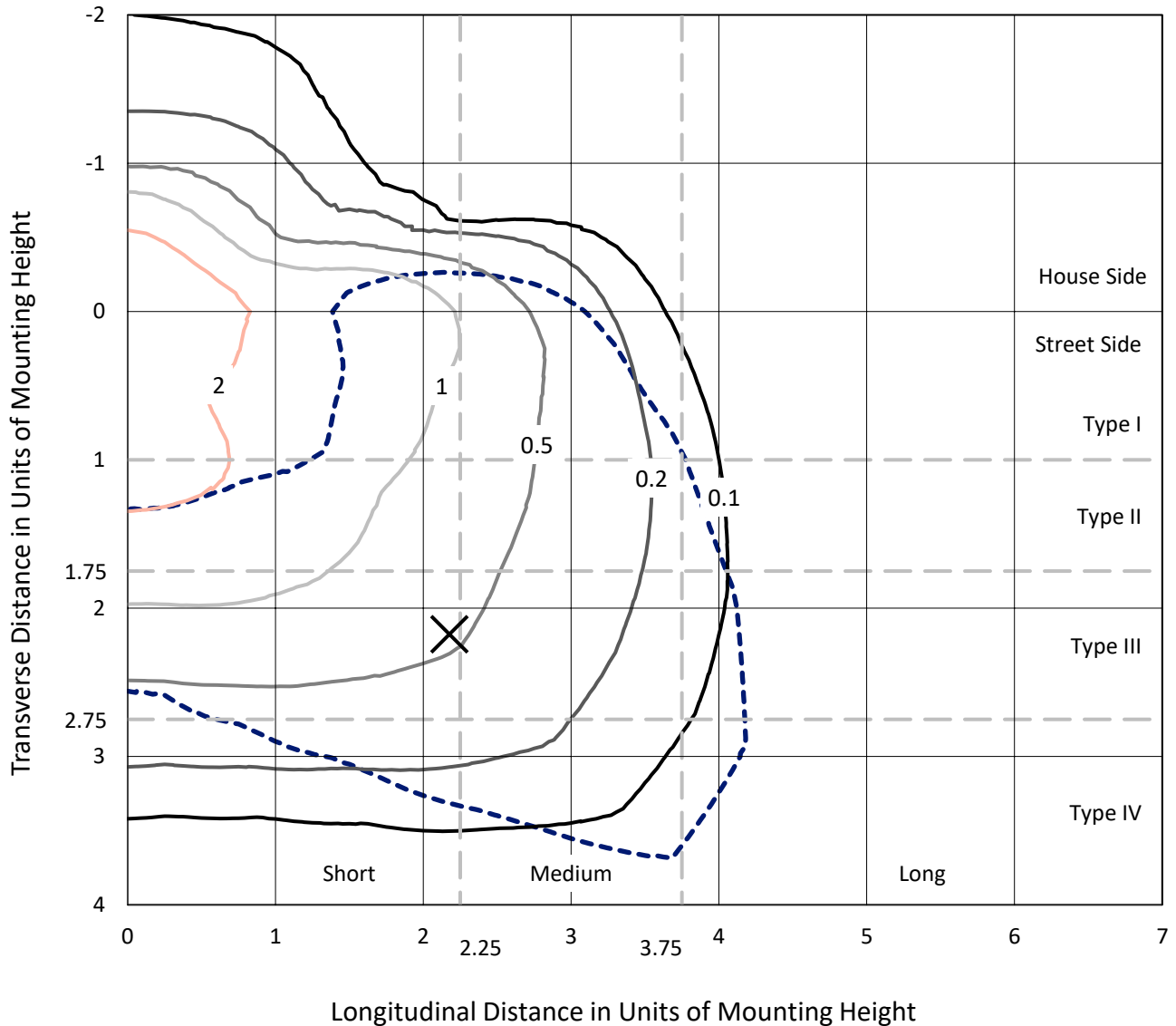
Lumens per Lamp: N/A
Luminaire Lumens: 17004.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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

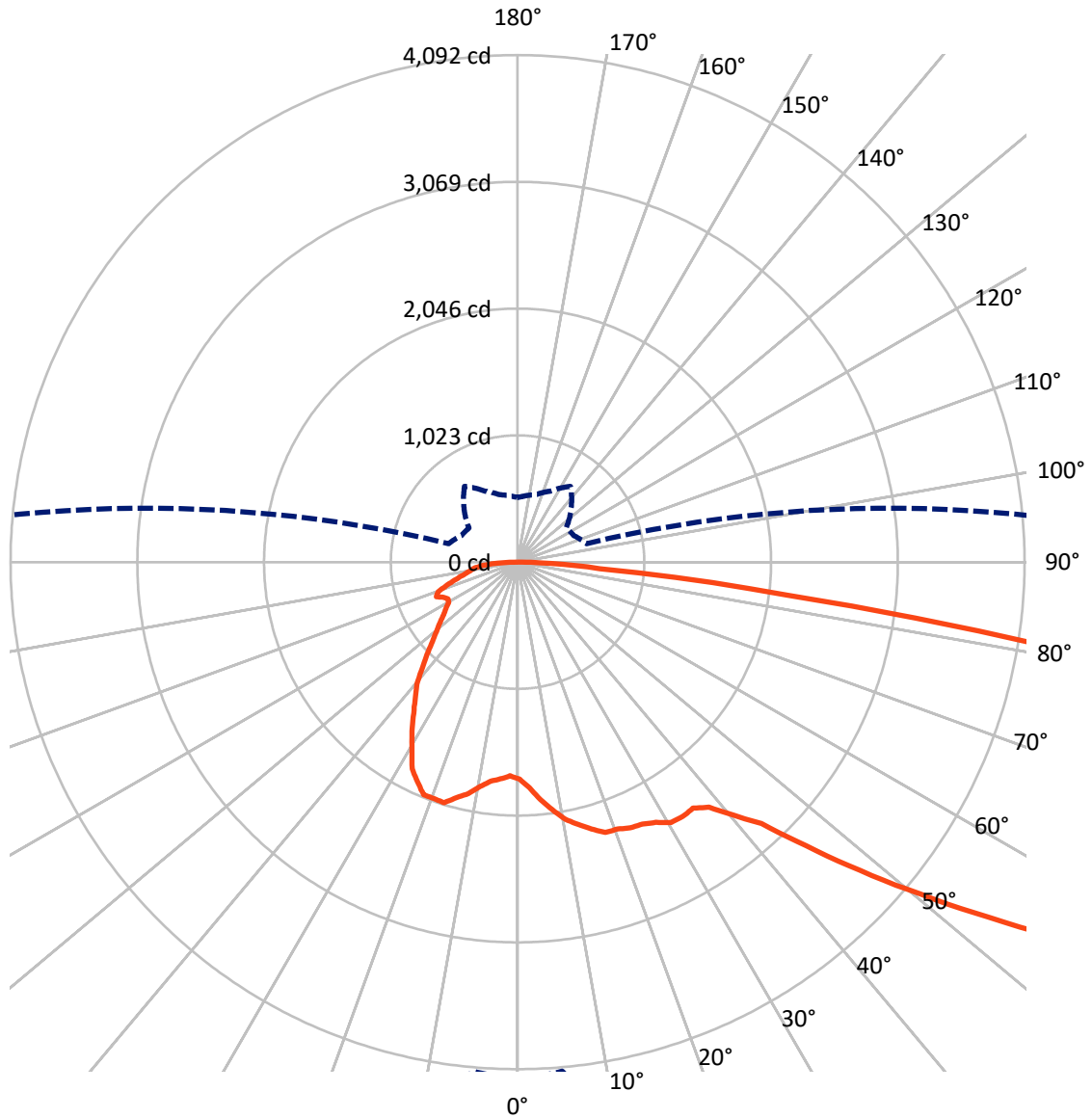
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3785.4	0.0	3785.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13219.5	0.0	13219.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	17004.9	0.0	17004.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.1
10°-20°	596.2	3.5
20°-30°	1006.8	5.9
30°-40°	1393.3	8.2
40°-50°	1992.9	11.7
50°-60°	3214.4	18.9
60°-70°	4740.7	27.9
70°-80°	3442.6	20.2
80°-90°	438.8	2.6
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°	17004.9	100.0
0°-180°	17004.9	100.0

Coefficient of Utilization



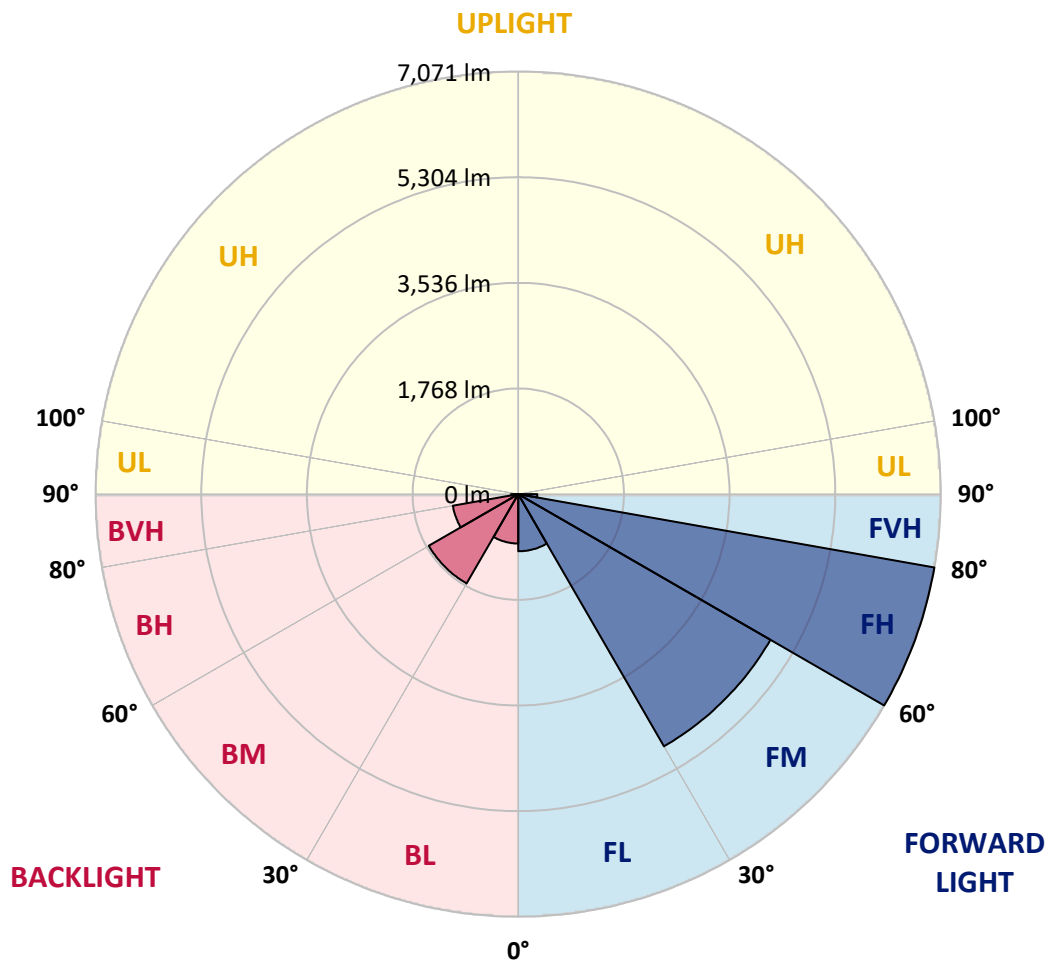
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.7	5.6			
FM (30°-60°)	4873.0	28.7			
FH (60°-80°)	7071.4	41.6			G3/7500
FVH (80°-90°)	319.4	1.9			G3/500
BL (0°-30°)	826.5	4.9	B2/1000		
BM (30°-60°)	1727.5	10.2	B2/2500		
BH (60°-80°)	1111.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	119.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1844.7	1855.7	1844.7	1842.9	1824.5	1811.7	1822.7	1806.2	1787.9	1780.5	1764.0
5°	2013.4	2015.3	1995.1	1996.9	1958.4	1918.1	1925.4	1875.9	1822.7	1802.5	1769.5
7.5°	2185.8	2165.6	2136.3	2127.1	2066.6	2022.6	2017.1	1973.1	1890.6	1844.7	1798.9
10°	2297.6	2305.0	2257.3	2217.0	2165.6	2112.4	2110.6	2028.1	1980.4	1912.6	1853.9
12.5°	2396.7	2398.5	2358.2	2294.0	2229.8	2163.8	2172.9	2136.3	2055.6	1991.4	1932.7
15°	2473.7	2462.7	2418.7	2360.0	2292.1	2240.8	2235.3	2204.1	2136.3	2083.1	1985.9
17.5°	2495.7	2490.2	2446.2	2383.8	2317.8	2279.3	2294.0	2242.6	2215.1	2167.4	2073.9
20°	2453.5	2440.7	2433.3	2363.7	2316.0	2312.3	2299.5	2310.5	2264.6	2220.6	2152.8
22.5°	2376.5	2371.0	2367.3	2312.3	2290.3	2306.8	2328.8	2345.3	2338.0	2295.8	2218.8
25°	2297.6	2323.3	2299.5	2273.8	2305.0	2347.2	2341.7	2394.8	2394.8	2382.0	2317.8
27.5°	2352.7	2336.2	2317.8	2305.0	2316.0	2382.0	2378.3	2442.5	2466.3	2442.5	2369.2
30°	2490.2	2473.7	2420.5	2363.7	2349.0	2420.5	2438.8	2495.7	2506.7	2448.0	2385.7
32.5°	2748.7	2739.6	2655.2	2488.3	2398.5	2438.8	2448.0	2512.2	2503.0	2466.3	2440.7
35°	3132.0	3100.8	2983.5	2701.1	2503.0	2462.7	2438.8	2490.2	2525.0	2506.7	2482.8
37.5°	3551.9	3517.1	3372.2	3014.6	2691.9	2526.9	2508.5	2550.7	2591.0	2581.9	2532.4
40°	3953.5	3953.5	3823.3	3407.0	2972.4	2682.7	2686.4	2638.7	2675.4	2658.9	2668.1
42.5°	4349.6	4334.9	4281.7	3867.3	3273.2	2943.1	2884.4	2765.2	2831.3	2825.8	2838.6
45°	4751.1	4740.1	4725.5	4296.4	3704.1	3295.2	3264.0	3049.5	3110.0	3084.3	3139.3
47.5°	5072.0	5084.9	5084.9	4775.0	4164.4	3764.6	3718.8	3379.5	3495.1	3507.9	3520.7
50°	5345.3	5350.8	5345.3	5231.6	4677.8	4301.9	4208.4	3863.6	3979.2	4080.0	4197.4
52.5°	5723.0	5730.4	5704.7	5660.7	5374.6	4866.7	4762.2	4378.9	4615.5	4721.8	4932.7
55°	6188.8	6133.8	6086.1	6119.1	6043.9	5488.3	5380.1	4910.7	5266.4	5407.6	5829.4
57.5°	6275.0	6322.6	6443.7	6705.9	6814.1	6093.4	6031.1	5563.5	6001.7	6124.6	6828.7
60°	6579.4	6500.5	6797.6	7366.0	7487.0	6881.9	6817.7	6278.6	6733.4	6861.8	7751.1
62.5°	6779.2	6775.6	7215.7	7890.5	8165.5	7699.8	7569.6	7208.3	7523.7	7648.4	8756.0
65°	6720.6	6773.7	7554.9	8198.5	8732.1	8629.5	8554.3	8007.8	8424.1	8413.1	9410.6
67.5°	6185.1	6335.5	7340.4	8420.4	9575.6	9762.7	9738.8	9131.9	9155.7	8922.8	9702.2
70°	5442.5	5391.1	6432.7	8189.4	9997.4	11106.8	11101.3	9968.1	9814.0	9034.7	8866.0
72°	4180.9	4124.0	4980.4	7032.3	9775.5	11644.1	11809.1	10547.5	9806.7	8570.8	7323.8
72.5°	3795.8	3746.3	4599.0	6619.7	9529.8	11783.4	11706.4	10569.5	9729.7	8352.6	6841.6
75°	1747.5	1690.7	2297.6	4052.5	7433.9	10441.2	10703.4	9891.0	8497.4	6649.0	4098.3
77.5°	520.8	504.3	739.0	1635.7	4320.2	7692.4	7793.3	7463.2	5932.1	3641.8	1520.1
80°	289.7	291.6	381.4	612.5	1899.7	4446.8	4809.8	4610.0	2910.1	1202.9	506.1
82.5°	161.4	170.5	238.4	363.1	872.8	2040.9	2196.8	2117.9	1052.6	564.8	276.9
85°	84.4	88.0	124.7	194.4	495.1	645.5	663.8	711.5	546.4	385.1	148.5
87.5°	33.0	33.0	45.8	80.7	183.4	199.9	179.7	218.2	313.6	249.4	73.3
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°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1778.7	1764.0	1762.2	1738.4	1745.7	1725.5	1727.4	1723.7	1725.5	1721.9	1712.7
5°	1769.5	1758.5	1727.4	1747.5	1729.2	1754.9	1775.0	1767.7	1773.2	1771.4	1773.2
7.5°	1782.4	1767.7	1764.0	1753.0	1769.5	1780.5	1797.0	1842.9	1839.2	1844.7	1855.7
10°	1820.9	1804.4	1793.4	1809.9	1800.7	1835.5	1853.9	1877.7	1919.9	1921.7	1899.7
12.5°	1896.1	1885.1	1863.1	1866.7	1897.9	1908.9	1919.9	1934.6	1962.1	1956.6	1976.7
15°	1982.2	1958.4	1945.6	1941.9	1949.2	1962.1	1960.2	1974.9	1989.6	2002.4	1996.9
17.5°	2044.6	2013.4	2017.1	2035.4	2033.6	2029.9	2006.1	1998.7	2006.1	2013.4	2009.7
20°	2108.8	2112.4	2084.9	2068.4	2061.1	2024.4	2006.1	1984.1	1962.1	1973.1	1989.6
22.5°	2189.5	2172.9	2132.6	2083.1	2046.4	2024.4	1967.6	1929.1	1929.1	1940.1	1934.6
25°	2281.1	2246.3	2176.6	2086.8	2040.9	1947.4	1907.1	1901.6	1886.9	1903.4	1910.7
27.5°	2352.7	2321.5	2226.1	2073.9	1947.4	1872.2	1848.4	1841.0	1864.9	1866.7	1896.1
30°	2382.0	2372.8	2233.5	2040.9	1852.0	1731.0	1716.4	1749.4	1775.0	1813.5	1815.4
32.5°	2420.5	2424.2	2244.5	1963.9	1727.4	1606.3	1584.3	1624.7	1698.0	1729.2	1753.0
35°	2484.7	2503.0	2235.3	1868.6	1595.3	1479.8	1476.1	1487.1	1558.7	1613.7	1644.8
37.5°	2596.5	2592.9	2233.5	1754.9	1490.8	1369.8	1340.4	1344.1	1391.8	1437.6	1432.1
40°	2746.9	2732.2	2228.0	1606.3	1355.1	1276.3	1226.8	1208.4	1204.7	1191.9	1195.6
42.5°	2952.3	2922.9	2226.1	1456.0	1232.3	1147.9	1113.1	1065.4	1030.5	964.5	968.2
45°	3238.3	3187.0	2178.5	1314.8	1111.2	1041.5	988.4	953.5	878.3	795.8	795.8
47.5°	3680.3	3513.4	2180.3	1158.9	993.9	937.0	900.4	839.8	759.2	693.1	685.8
50°	4331.2	3949.8	2117.9	1036.0	898.5	860.0	821.5	751.8	674.8	629.0	634.5
52.5°	5171.1	4600.8	2116.1	926.0	823.3	795.8	753.7	691.3	634.5	605.1	594.1
55°	6172.3	5462.6	2182.1	836.2	746.3	731.7	713.3	662.0	607.0	581.3	579.5
57.5°	7197.3	6304.3	2288.5	772.0	680.3	691.3	678.5	638.1	594.1	564.8	561.1
60°	8108.7	6971.8	2073.9	695.0	621.6	645.5	663.8	629.0	605.1	603.3	590.5
62.5°	8796.3	7257.8	1577.0	636.3	590.5	634.5	684.0	706.0	695.0	709.6	711.5
65°	9047.5	7085.5	1085.6	605.1	566.6	660.1	770.2	762.8	698.6	671.1	685.8
67.5°	8695.5	6386.8	805.0	568.5	550.1	713.3	819.7	728.0	630.8	627.1	616.1
70°	7477.9	5413.1	656.5	529.9	522.6	684.0	797.7	674.8	594.1	570.3	559.3
72°	5957.7	4215.7	575.8	502.4	478.6	610.6	746.3	632.6	562.9	533.6	520.8
72.5°	5438.8	3907.6	564.8	489.6	469.4	594.1	720.6	619.8	555.6	529.9	509.8
75°	2983.5	2000.6	496.9	449.3	396.1	513.4	667.5	581.3	524.4	487.8	484.1
77.5°	1109.4	775.7	429.1	397.9	342.9	443.8	607.0	551.9	476.8	430.9	421.8
80°	425.4	408.9	350.2	335.6	287.9	388.7	559.3	495.1	405.3	359.4	344.7
82.5°	258.6	238.4	265.9	262.2	220.0	353.9	526.3	463.9	359.4	291.6	282.4
85°	141.2	141.2	185.2	177.9	154.0	282.4	397.9	308.1	227.4	187.0	190.7
87.5°	62.3	73.3	99.0	93.5	84.4	159.5	194.4	163.2	113.7	77.0	82.5
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)