

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: P481273

Luminaire Tested: **IFLD-S-SA2C-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481273
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

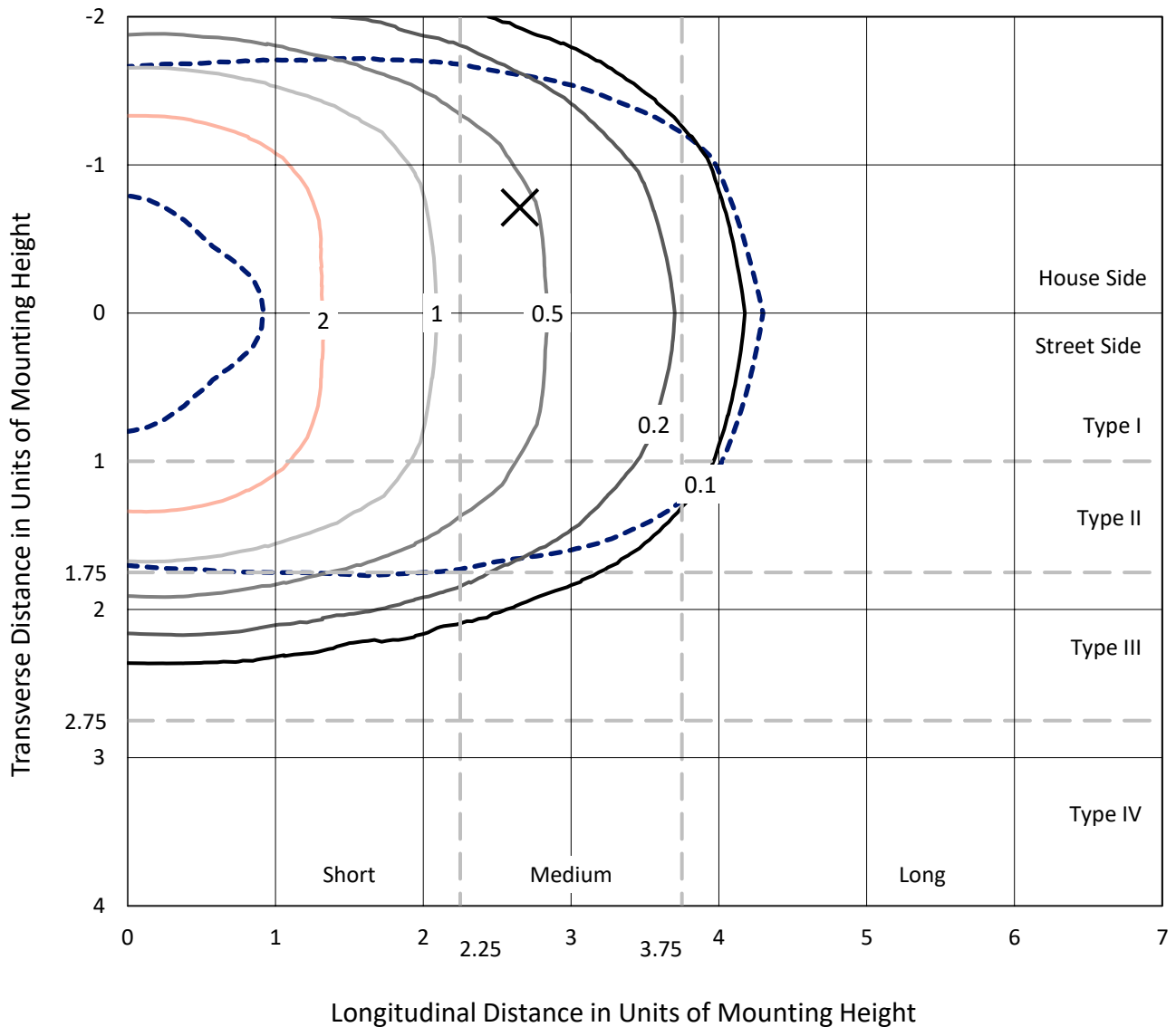
Lumens per Lamp: N/A
Luminaire Lumens: 14640.2 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
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

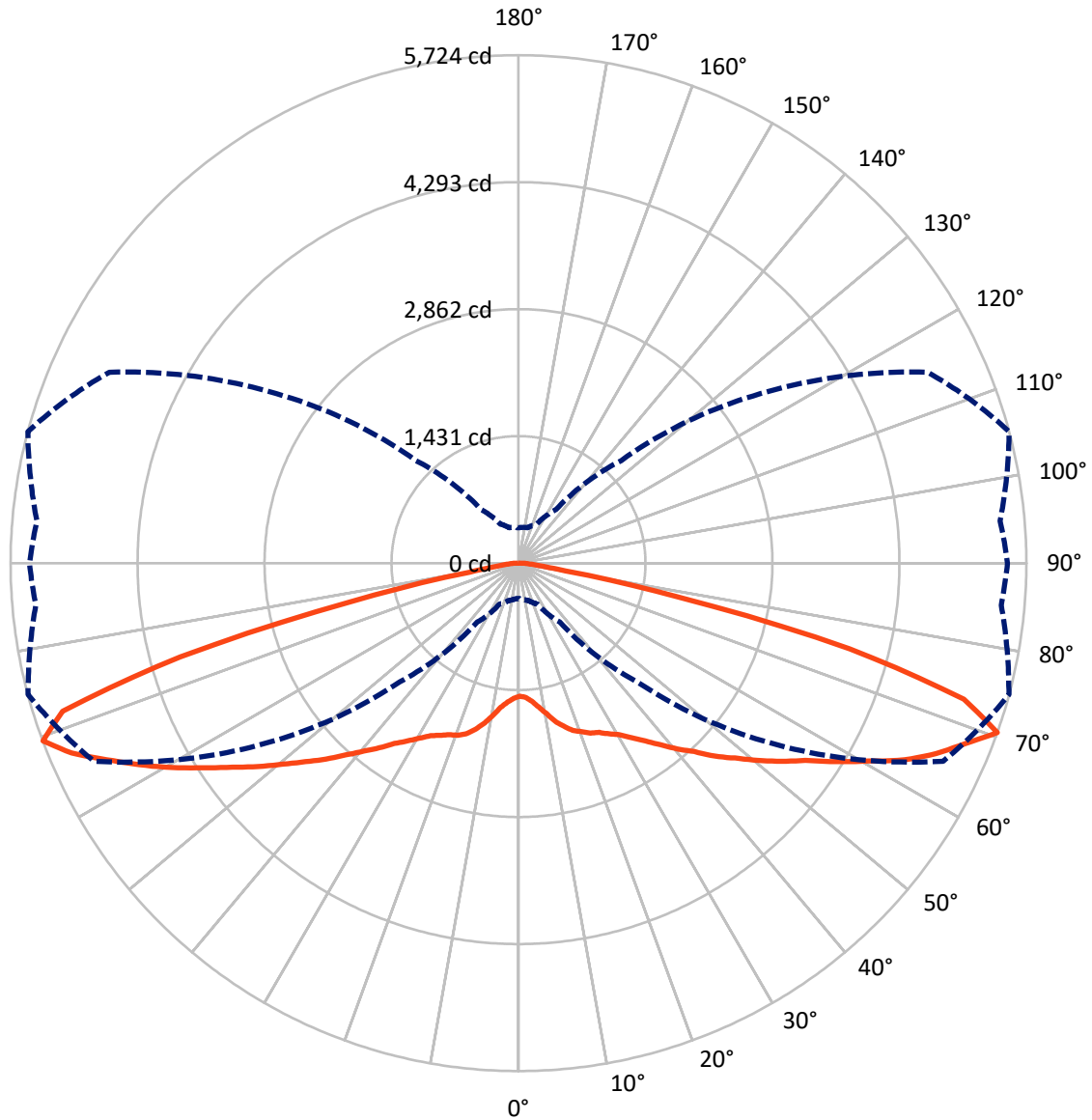
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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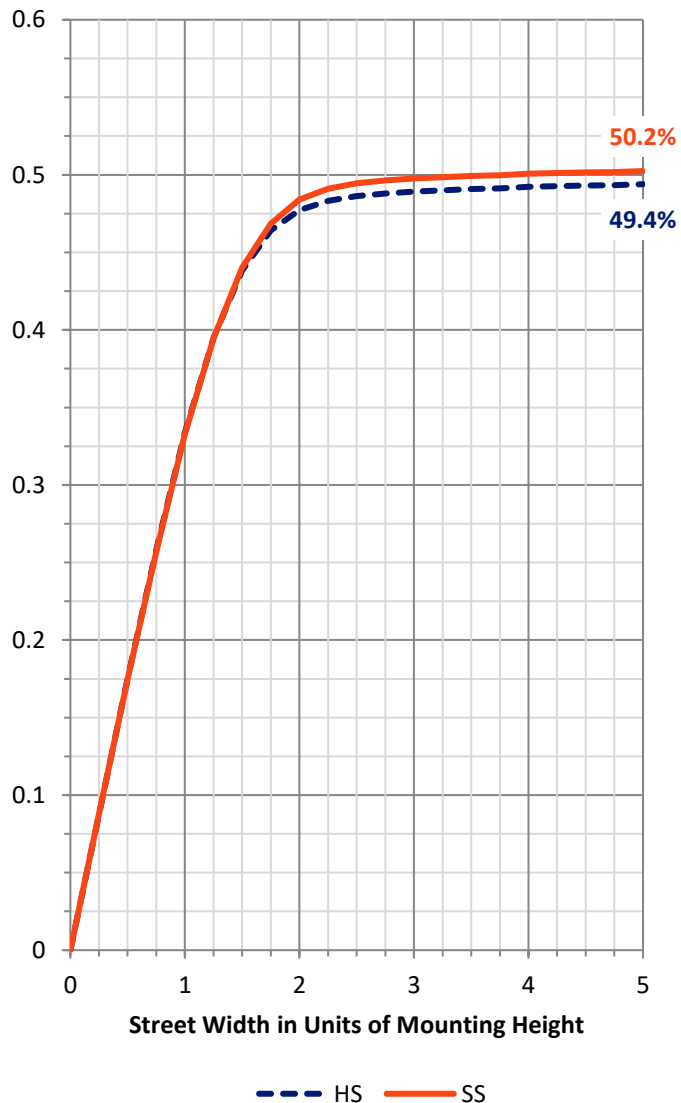
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7268.0	0.0	7268.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7372.2	0.0	7372.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	14640.2	0.0	14640.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	1.0
10°-20°	508.1	3.5
20°-30°	983.8	6.7
30°-40°	1664.0	11.4
40°-50°	2654.6	18.1
50°-60°	3633.5	24.8
60°-70°	3424.8	23.4
70°-80°	1508.7	10.3
80°-90°	113.5	0.8
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°	14640.2	100.0
0°-180°	14640.2	100.0

Coefficient of Utilization



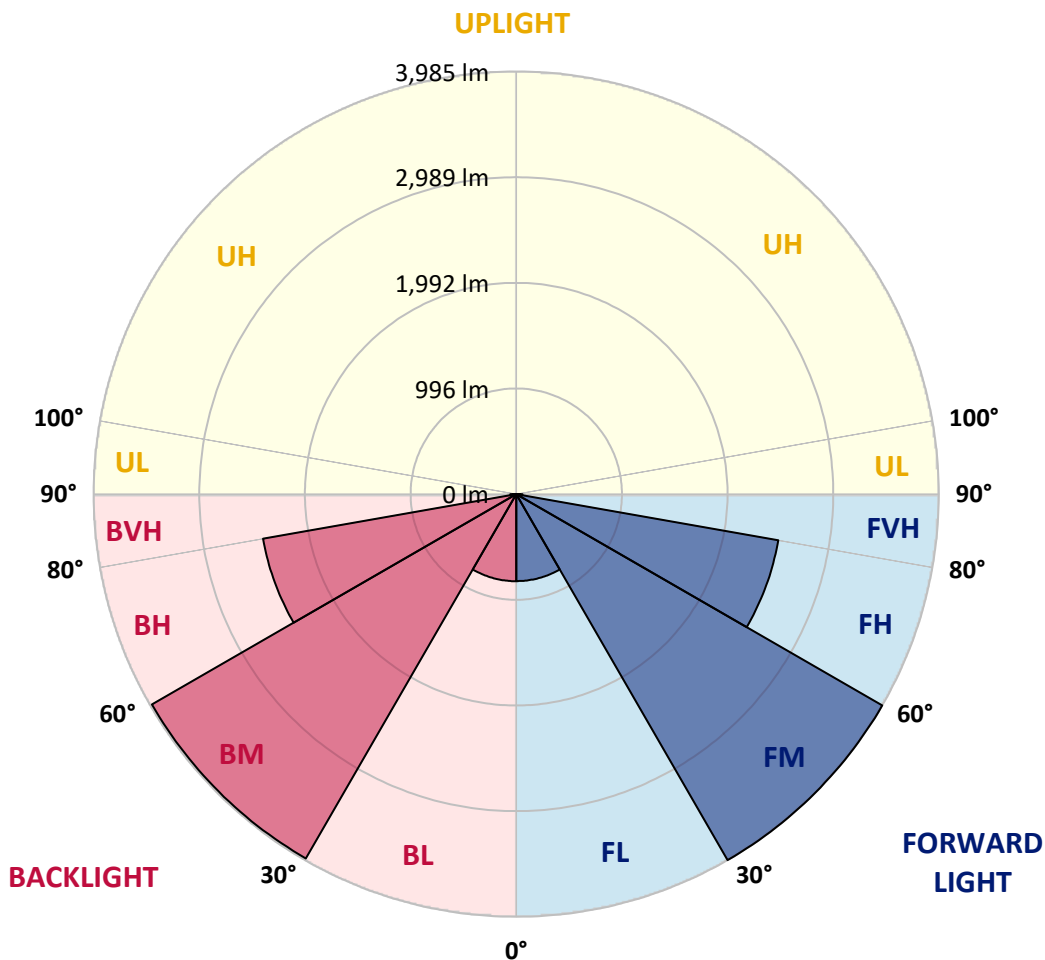
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.1	5.6			
FM (30°-60°)	3984.9	27.2			
FH (60°-80°)	2509.2	17.1			G2/5000
FVH (80°-90°)	58.0	0.4			G1/100
BL (0°-30°)	821.0	5.6	B2/1000		
BM (30°-60°)	3967.1	27.1	B3/5000		
BH (60°-80°)	2424.4	16.6	B3/2500		G3/2500
BVH (80°-90°)	55.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1489.7	1489.7	1488.1	1496.0	1503.9	1507.0	1513.3	1514.9	1524.4	1516.5	1532.3
5°	1484.9	1483.4	1496.0	1514.9	1514.9	1535.4	1548.1	1565.4	1570.2	1579.6	1582.8
7.5°	1518.1	1514.9	1508.6	1529.1	1546.5	1578.0	1595.4	1625.4	1636.4	1649.1	1663.3
10°	1538.6	1538.6	1532.3	1568.6	1584.4	1627.0	1664.8	1694.8	1737.4	1751.6	1753.2
12.5°	1541.7	1546.5	1565.4	1612.8	1656.9	1712.2	1740.6	1797.4	1840.0	1866.8	1876.3
15°	1589.1	1579.6	1600.1	1664.8	1729.5	1778.5	1829.0	1870.0	1931.5	1966.2	1988.3
17.5°	1631.7	1622.2	1660.1	1737.4	1803.7	1879.4	1923.6	1967.8	2012.0	2043.6	2045.1
20°	1699.6	1707.4	1740.6	1824.2	1911.0	1977.3	2027.8	2035.7	2057.8	2103.5	2095.6
22.5°	1783.2	1776.9	1846.3	1937.8	2032.5	2087.8	2116.2	2095.6	2084.6	2133.5	2144.6
25°	1866.8	1885.8	1948.9	2034.1	2147.7	2221.9	2229.8	2173.0	2131.9	2149.3	2144.6
27.5°	1994.6	1997.8	2064.1	2165.1	2280.3	2345.0	2340.2	2259.8	2180.9	2182.4	2185.6
30°	2158.8	2143.0	2215.6	2307.1	2420.7	2479.1	2487.0	2371.8	2266.1	2234.5	2242.4
32.5°	2316.6	2335.5	2398.6	2502.8	2586.4	2619.6	2602.2	2499.6	2362.3	2319.7	2324.5
35°	2518.6	2515.4	2602.2	2690.6	2753.7	2760.0	2745.8	2595.9	2466.5	2411.3	2389.2
37.5°	2734.7	2763.2	2820.0	2892.6	2958.8	2962.0	2884.7	2764.7	2605.3	2513.8	2540.6
40°	2976.2	3007.8	3048.8	3154.5	3203.4	3152.9	3074.0	2911.5	2745.8	2665.3	2677.9
42.5°	3189.2	3203.4	3287.1	3411.7	3435.4	3413.3	3296.5	3099.3	2906.8	2818.4	2824.7
45°	3384.9	3403.8	3512.7	3624.8	3680.0	3642.1	3506.4	3318.6	3094.5	3018.8	2988.8
47.5°	3564.8	3602.7	3708.4	3823.6	3908.8	3912.0	3744.7	3517.5	3280.8	3181.3	3179.8
50°	3686.3	3741.5	3845.7	3976.7	4101.3	4150.3	3983.0	3738.4	3484.3	3378.6	3367.5
52.5°	3752.6	3809.4	3913.5	4117.1	4256.0	4331.7	4252.8	3945.1	3722.6	3612.1	3594.8
55°	3672.1	3710.0	3880.4	4166.0	4380.6	4505.3	4453.2	4230.7	3959.3	3869.4	3885.1
57.5°	3329.7	3408.6	3618.5	3975.1	4377.5	4683.6	4678.9	4500.6	4232.3	4147.1	4150.3
60°	2741.1	2807.3	3066.1	3564.8	4200.8	4756.2	4923.5	4762.5	4538.5	4439.0	4435.9
62.5°	1934.7	2018.3	2318.1	2862.6	3680.0	4655.2	5204.4	5092.3	4838.3	4765.7	4792.5
65°	1082.5	1133.0	1410.8	1903.1	2804.2	4099.8	5254.9	5434.8	5142.8	5032.4	5037.1
67.5°	579.1	598.1	727.5	998.9	1715.3	3160.8	4745.2	5632.0	5472.7	5281.7	5251.7
70°	397.7	404.0	437.1	511.3	811.1	1890.5	3579.0	5280.1	5720.4	5460.0	5510.5
72.5°	336.1	333.0	340.9	348.7	424.5	845.8	2100.4	4063.5	5400.1	5302.2	5283.3
75°	291.9	290.4	293.5	285.6	295.1	372.4	929.5	2532.8	3953.0	4412.2	4483.2
77.5°	241.4	243.0	244.6	236.7	233.6	246.2	374.0	1112.5	1945.7	2147.7	2316.6
80°	183.1	186.2	198.8	190.9	178.3	179.9	220.9	372.4	558.6	506.6	522.3
82.5°	124.7	126.2	153.1	143.6	134.1	121.5	142.0	192.5	217.8	165.7	145.2
85°	88.4	86.8	99.4	91.5	85.2	61.5	85.2	108.9	131.0	82.1	74.2
87.5°	20.5	20.5	41.0	33.1	31.6	25.2	33.1	42.6	56.8	36.3	33.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1527.5	1513.3	1513.3	1510.2	1497.6	1494.4	1483.4	1486.5	1478.6	1470.7
5°	1581.2	1562.3	1562.3	1535.4	1510.2	1507.0	1494.4	1494.4	1481.8	1484.9
7.5°	1655.4	1638.0	1609.6	1585.9	1551.2	1537.0	1513.3	1510.2	1507.0	1500.7
10°	1743.7	1721.6	1693.2	1644.3	1615.9	1589.1	1565.4	1532.3	1524.4	1526.0
12.5°	1863.7	1829.0	1767.4	1724.8	1688.5	1653.8	1619.1	1570.2	1559.1	1563.8
15°	1948.9	1904.7	1843.2	1827.4	1778.5	1735.8	1679.0	1623.8	1604.9	1600.1
17.5°	2018.3	1982.0	1945.7	1922.1	1882.6	1830.5	1751.6	1688.5	1645.9	1641.2
20°	2075.1	2027.8	2019.9	2034.1	1985.2	1950.5	1854.2	1776.9	1720.1	1696.4
22.5°	2109.8	2079.9	2102.0	2114.6	2111.4	2053.0	1953.6	1863.7	1792.7	1770.6
25°	2147.7	2113.0	2191.9	2234.5	2245.6	2149.3	2072.0	1953.6	1884.2	1870.0
27.5°	2166.7	2179.3	2270.8	2360.8	2352.9	2278.7	2174.5	2068.8	2013.6	1988.3
30°	2221.9	2242.4	2381.3	2482.3	2483.8	2411.3	2332.3	2212.4	2150.9	2139.8
32.5°	2321.3	2346.6	2494.9	2602.2	2621.1	2565.9	2487.0	2412.8	2349.7	2324.5
35°	2397.0	2461.7	2629.0	2726.9	2777.4	2744.2	2700.0	2622.7	2556.4	2534.3
37.5°	2505.9	2595.9	2756.8	2889.4	2946.2	2943.1	2909.9	2826.3	2771.0	2752.1
40°	2662.2	2752.1	2898.9	3074.0	3179.8	3175.0	3156.1	3091.4	3009.3	2999.9
42.5°	2827.9	2902.0	3093.0	3293.4	3444.9	3429.1	3378.6	3302.8	3246.0	3233.4
45°	2988.8	3104.0	3280.8	3538.0	3651.6	3691.0	3631.1	3501.7	3437.0	3429.1
47.5°	3190.8	3282.3	3503.3	3733.7	3902.5	3908.8	3806.2	3686.3	3568.0	3593.2
50°	3370.7	3492.2	3716.3	3968.8	4170.8	4098.2	3967.2	3817.3	3732.1	3698.9
52.5°	3563.2	3711.6	3971.9	4229.2	4341.2	4268.6	4055.6	3888.3	3758.9	3744.7
55°	3844.1	3921.4	4262.3	4459.6	4495.8	4342.8	4028.7	3792.0	3624.8	3583.7
57.5°	4129.7	4219.7	4517.9	4688.4	4650.5	4301.7	3855.2	3489.1	3269.7	3211.3
60°	4418.5	4529.0	4779.9	4936.1	4740.4	4019.3	3364.4	2892.6	2636.9	2584.8
62.5°	4740.4	4884.0	5108.1	5163.4	4473.8	3460.6	2670.0	2087.8	1829.0	1742.2
65°	5026.1	5172.8	5449.0	5116.0	3907.2	2581.7	1726.4	1193.0	1002.1	932.6
67.5°	5261.2	5426.9	5562.6	4527.4	2861.0	1511.8	899.5	628.1	557.0	531.8
70°	5447.4	5723.6	5089.2	3328.1	1634.9	736.9	486.0	413.4	404.0	397.7
72.5°	5284.9	5248.6	3799.9	1920.5	716.4	405.6	351.9	340.9	339.3	340.9
75°	4322.3	3855.2	2272.4	834.8	359.8	293.5	291.9	287.2	295.1	295.1
77.5°	2097.2	1833.7	950.0	358.2	236.7	230.4	238.3	238.3	238.3	238.3
80°	486.0	538.1	339.3	217.8	172.0	172.0	189.4	190.9	183.1	179.9
82.5°	165.7	220.9	186.2	137.3	113.6	127.8	143.6	146.8	121.5	123.1
85°	82.1	129.4	101.0	78.9	58.4	78.9	93.1	97.8	83.6	80.5
87.5°	37.9	56.8	37.9	26.8	20.5	28.4	26.8	22.1	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)