

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: P481452

Luminaire Tested: **IFLD-M-SA4A-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481452
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

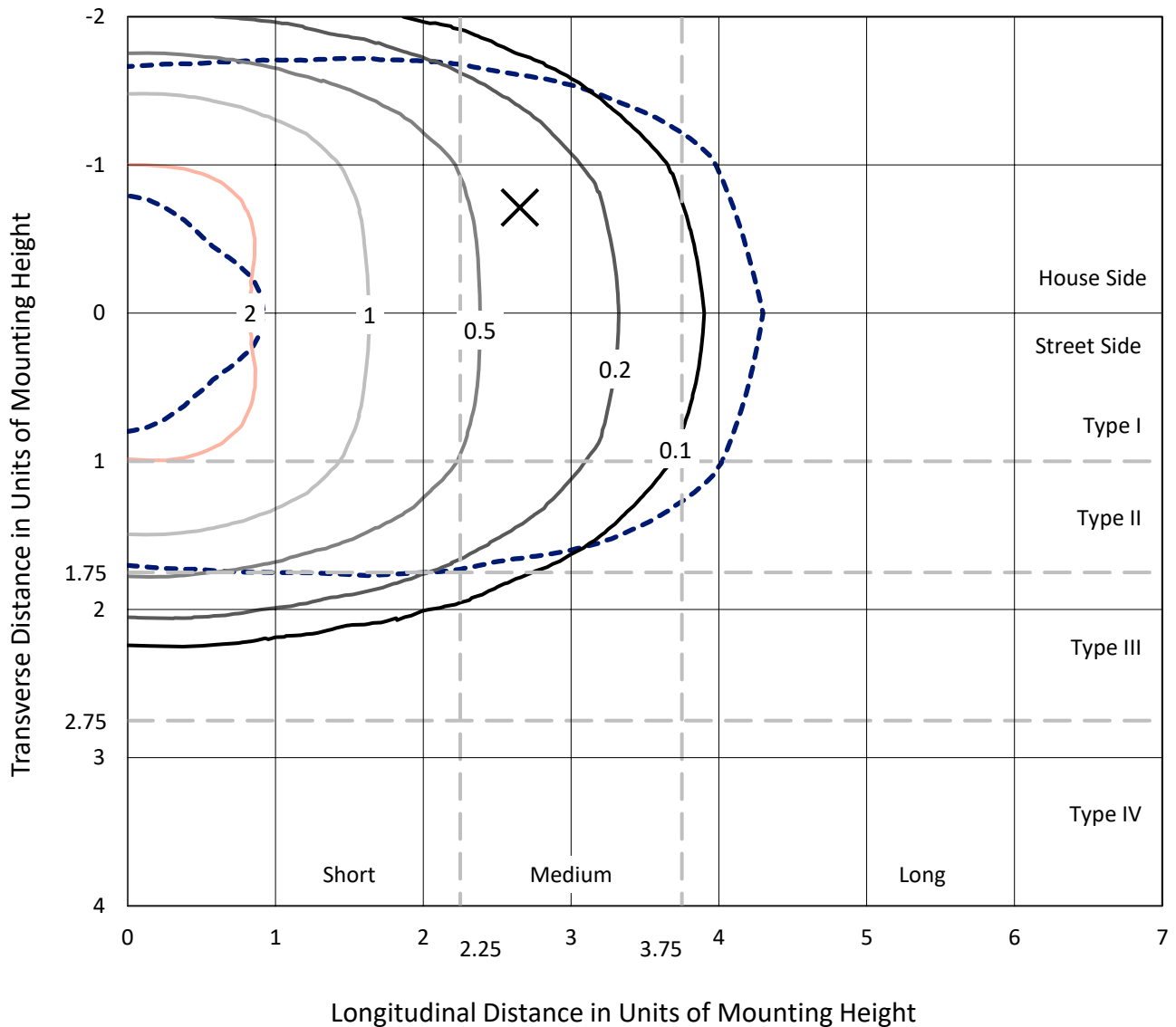
Lumens per Lamp: N/A
Luminaire Lumens: 15114.8 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 128.6
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

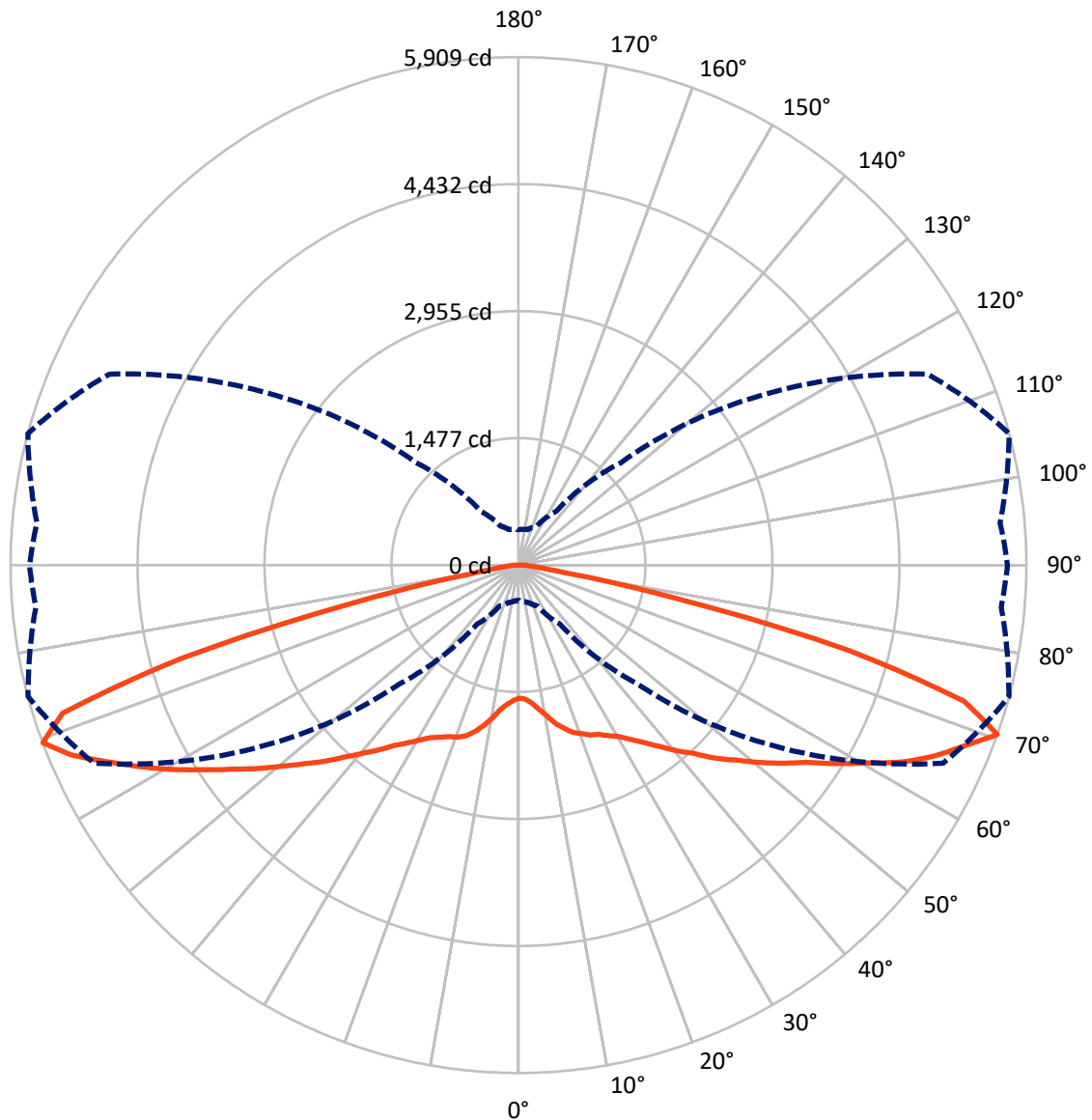
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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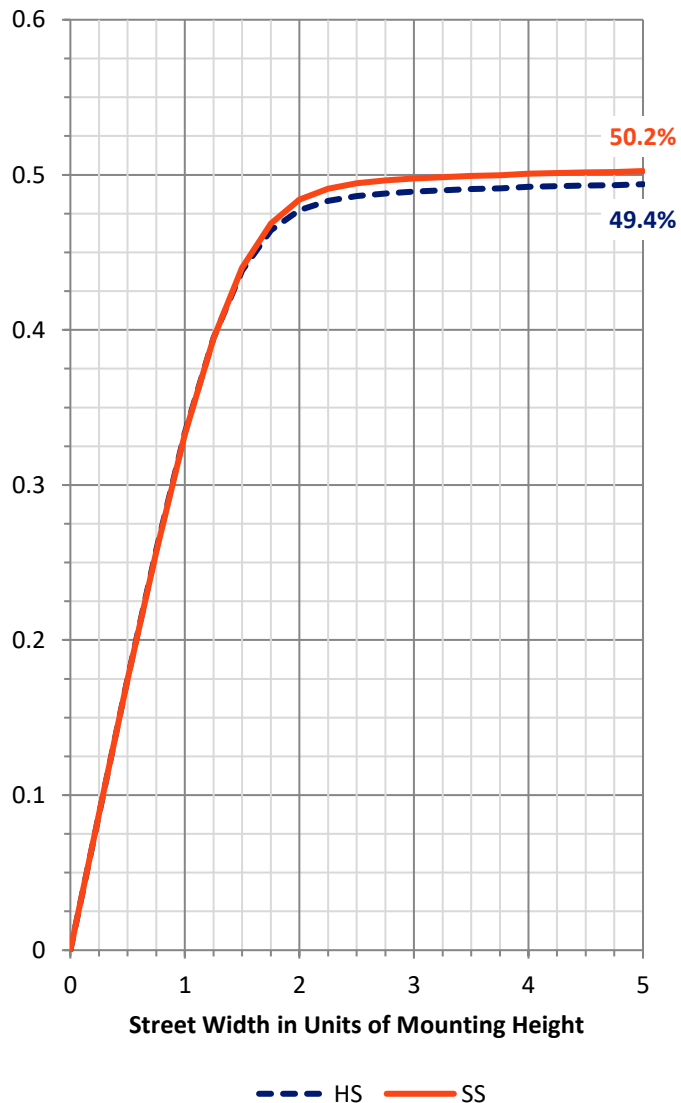
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7503.6	0.0	7503.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7611.2	0.0	7611.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	15114.8	0.0	15114.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.0
10°-20°	524.5	3.5
20°-30°	1015.7	6.7
30°-40°	1717.9	11.4
40°-50°	2740.6	18.1
50°-60°	3751.3	24.8
60°-70°	3535.8	23.4
70°-80°	1557.6	10.3
80°-90°	117.2	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°	15114.8	100.0
0°-180°	15114.8	100.0

Coefficient of Utilization



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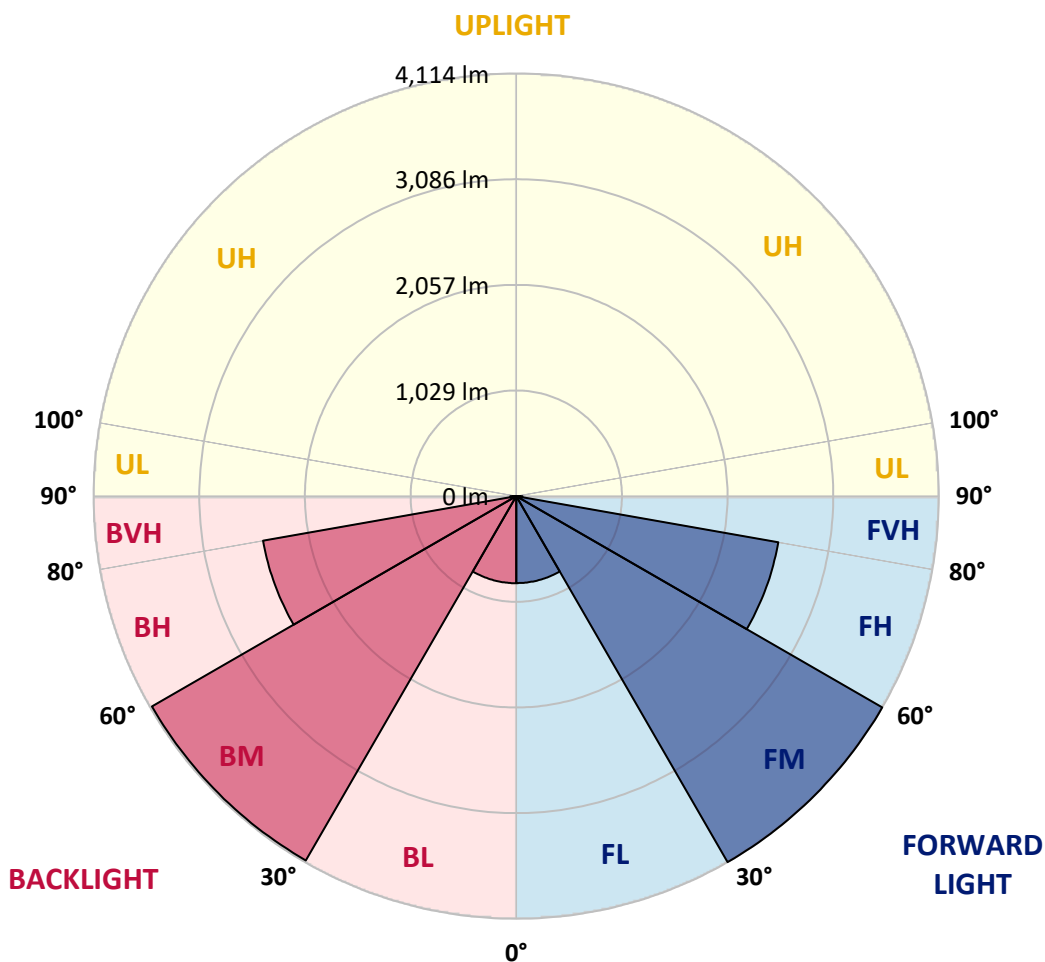
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.7	5.6			
FM (30°-60°)	4114.1	27.2			
FH (60°-80°)	2590.5	17.1			G2/5000
FVH (80°-90°)	59.9	0.4			G1/100
BL (0°-30°)	847.6	5.6	B2/1000		
BM (30°-60°)	4095.7	27.1	B3/5000		
BH (60°-80°)	2503.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	57.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7
2.5°	1538.0	1538.0	1536.3	1544.5	1552.6	1555.9	1562.4	1564.0	1573.8	1565.7	1582.0
5°	1533.1	1531.4	1544.5	1564.0	1564.0	1585.2	1598.2	1616.2	1621.1	1630.8	1634.1
7.5°	1567.3	1564.0	1557.5	1578.7	1596.6	1629.2	1647.1	1678.1	1689.5	1702.5	1717.2
10°	1588.5	1588.5	1582.0	1619.4	1635.7	1679.7	1718.8	1749.8	1793.7	1808.4	1810.0
12.5°	1591.7	1596.6	1616.2	1665.0	1710.7	1767.7	1797.0	1855.7	1899.6	1927.3	1937.1
15°	1640.6	1630.8	1652.0	1718.8	1785.6	1836.1	1888.2	1930.6	1994.1	2030.0	2052.8
17.5°	1684.6	1674.8	1713.9	1793.7	1862.2	1940.4	1986.0	2031.6	2077.2	2109.8	2111.4
20°	1754.6	1762.8	1797.0	1883.4	1973.0	2041.4	2093.5	2101.7	2124.5	2171.7	2163.6
22.5°	1841.0	1834.5	1906.2	2000.7	2098.4	2155.4	2184.8	2163.6	2152.2	2202.7	2214.1
25°	1927.3	1946.9	2012.1	2100.0	2217.3	2293.9	2302.1	2243.4	2201.0	2219.0	2214.1
27.5°	2059.3	2062.6	2131.0	2235.3	2354.2	2421.0	2416.1	2333.0	2251.6	2253.2	2256.4
30°	2228.7	2212.5	2287.4	2381.9	2499.2	2559.5	2567.6	2448.7	2339.5	2306.9	2315.1
32.5°	2391.7	2411.2	2476.4	2583.9	2670.3	2704.5	2686.6	2580.7	2438.9	2394.9	2399.8
35°	2600.2	2596.9	2686.6	2777.8	2843.0	2849.5	2834.8	2680.0	2546.4	2489.4	2466.6
37.5°	2823.4	2852.7	2911.4	2986.3	3054.8	3058.0	2978.2	2854.4	2689.8	2595.3	2623.0
40°	3072.7	3105.3	3147.6	3256.8	3307.3	3255.1	3173.7	3005.9	2834.8	2751.7	2764.8
42.5°	3292.6	3307.3	3393.6	3522.3	3546.8	3524.0	3403.4	3199.7	3001.0	2909.8	2916.3
45°	3494.6	3514.2	3626.6	3742.3	3799.3	3760.2	3620.1	3426.2	3194.9	3116.7	3085.7
47.5°	3680.4	3719.5	3828.6	3947.6	4035.5	4038.8	3866.1	3631.5	3387.1	3284.5	3282.8
50°	3805.8	3862.8	3970.4	4105.6	4234.3	4284.8	4112.1	3859.6	3597.3	3488.1	3476.7
52.5°	3874.2	3932.9	4040.4	4250.6	4394.0	4472.2	4390.7	4073.0	3843.3	3729.2	3711.3
55°	3791.1	3830.2	4006.2	4301.1	4522.7	4651.4	4597.6	4367.9	4087.7	3994.8	4011.1
57.5°	3437.6	3519.1	3735.8	4104.0	4519.4	4835.5	4830.6	4646.5	4369.5	4281.5	4284.8
60°	2829.9	2898.3	3165.5	3680.4	4336.9	4910.4	5083.1	4916.9	4685.6	4582.9	4579.7
62.5°	1997.4	2083.7	2393.3	2955.4	3799.3	4806.1	5373.1	5257.4	4995.1	4920.2	4947.9
65°	1117.6	1169.8	1456.5	1964.8	2895.1	4232.7	5425.2	5611.0	5309.6	5195.5	5200.4
67.5°	597.9	617.5	751.1	1031.3	1770.9	3263.3	4899.0	5814.6	5650.1	5452.9	5422.0
70°	410.6	417.1	451.3	527.9	837.4	1951.8	3695.0	5451.3	5905.9	5637.0	5689.2
72.5°	347.0	343.8	351.9	360.1	438.3	873.3	2168.5	4195.2	5575.1	5474.1	5454.6
75°	301.4	299.8	303.0	294.9	304.7	384.5	959.6	2614.9	4081.1	4555.2	4628.6
77.5°	249.3	250.9	252.5	244.4	241.1	254.2	386.1	1148.6	2008.8	2217.3	2391.7
80°	189.0	192.2	205.3	197.1	184.1	185.7	228.1	384.5	576.7	523.0	539.3
82.5°	128.7	130.3	158.0	148.3	138.5	125.4	146.6	198.8	224.8	171.1	149.9
85°	91.2	89.6	102.6	94.5	88.0	63.5	88.0	112.4	135.2	84.7	76.6
87.5°	21.2	21.2	42.4	34.2	32.6	26.1	34.2	44.0	58.7	37.5	34.2
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°	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7	1547.7
2.5°	1577.1	1562.4	1562.4	1559.1	1546.1	1542.9	1531.4	1534.7	1526.6	1518.4
5°	1632.5	1612.9	1612.9	1585.2	1559.1	1555.9	1542.9	1542.9	1529.8	1533.1
7.5°	1709.0	1691.1	1661.8	1637.3	1601.5	1586.8	1562.4	1559.1	1555.9	1549.4
10°	1800.3	1777.5	1748.1	1697.6	1668.3	1640.6	1616.2	1582.0	1573.8	1575.4
12.5°	1924.1	1888.2	1824.7	1780.7	1743.2	1707.4	1671.6	1621.1	1609.6	1614.5
15°	2012.1	1966.4	1902.9	1886.6	1836.1	1792.1	1733.5	1676.4	1656.9	1652.0
17.5°	2083.7	2046.3	2008.8	1984.4	1943.6	1889.9	1808.4	1743.2	1699.3	1694.4
20°	2142.4	2093.5	2085.4	2100.0	2049.5	2013.7	1914.3	1834.5	1775.8	1751.4
22.5°	2178.2	2147.3	2170.1	2183.1	2179.9	2119.6	2016.9	1924.1	1850.8	1828.0
25°	2217.3	2181.5	2263.0	2306.9	2318.4	2219.0	2139.1	2016.9	1945.3	1930.6
27.5°	2236.9	2249.9	2344.4	2437.3	2429.1	2352.6	2245.0	2135.9	2078.9	2052.8
30°	2293.9	2315.1	2458.5	2562.7	2564.4	2489.4	2408.0	2284.1	2220.6	2209.2
32.5°	2396.6	2422.6	2575.8	2686.6	2706.1	2649.1	2567.6	2491.0	2425.9	2399.8
35°	2474.8	2541.6	2714.2	2815.3	2867.4	2833.2	2787.6	2707.7	2639.3	2616.5
37.5°	2587.2	2680.0	2846.2	2983.1	3041.7	3038.5	3004.2	2917.9	2860.9	2841.3
40°	2748.5	2841.3	2992.8	3173.7	3282.8	3278.0	3258.4	3191.6	3106.9	3097.1
42.5°	2919.5	2996.1	3193.2	3400.1	3556.5	3540.3	3488.1	3409.9	3351.3	3338.2
45°	3085.7	3204.6	3387.1	3652.7	3770.0	3810.7	3748.8	3615.2	3548.4	3540.3
47.5°	3294.2	3388.7	3616.8	3854.7	4029.0	4035.5	3929.6	3805.8	3683.6	3709.7
50°	3480.0	3605.4	3836.8	4097.4	4306.0	4231.0	4095.8	3941.0	3853.1	3818.8
52.5°	3678.7	3831.9	4100.7	4366.3	4481.9	4407.0	4187.0	4014.3	3880.8	3866.1
55°	3968.7	4048.6	4400.5	4604.1	4641.6	4483.6	4159.3	3915.0	3742.3	3699.9
57.5°	4263.6	4356.5	4664.4	4840.4	4801.3	4441.2	3980.1	3602.2	3375.7	3315.4
60°	4561.8	4675.8	4934.8	5096.1	4894.1	4149.6	3473.5	2986.3	2722.4	2668.6
62.5°	4894.1	5042.4	5273.7	5330.7	4618.8	3572.8	2756.6	2155.4	1888.2	1798.6
65°	5189.0	5340.5	5625.6	5281.9	4033.9	2665.4	1782.3	1231.7	1034.5	962.9
67.5°	5431.8	5602.8	5742.9	4674.2	2953.7	1560.8	928.6	648.4	575.1	549.0
70°	5624.0	5909.1	5254.2	3436.0	1687.9	760.8	501.8	426.9	417.1	410.6
72.5°	5456.2	5418.7	3923.1	1982.7	739.7	418.7	363.3	351.9	350.3	351.9
75°	4462.4	3980.1	2346.0	861.8	371.5	303.0	301.4	296.5	304.7	304.7
77.5°	2165.2	1893.1	980.8	369.8	244.4	237.9	246.0	246.0	246.0	246.0
80°	501.8	555.6	350.3	224.8	177.6	177.6	195.5	197.1	189.0	185.7
82.5°	171.1	228.1	192.2	141.7	117.3	132.0	148.3	151.5	125.4	127.1
85°	84.7	133.6	104.3	81.5	60.3	81.5	96.1	101.0	86.3	83.1
87.5°	39.1	58.7	39.1	27.7	21.2	29.3	27.7	22.8	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)