

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: P479091

Luminaire Tested: **IFLD-S-SA2E-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479091
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

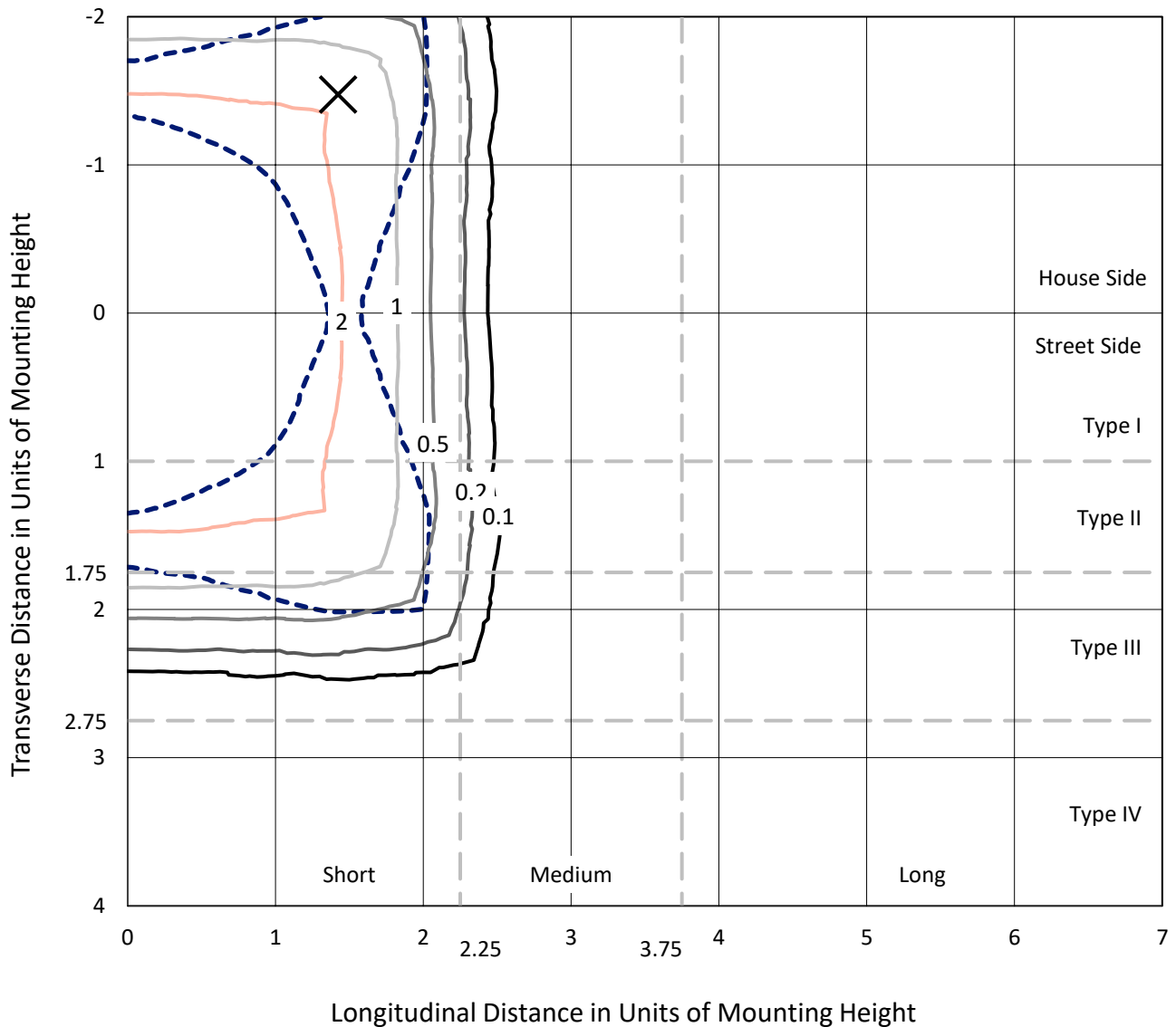
Lumens per Lamp: N/A
Luminaire Lumens: 14344 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 156.2
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

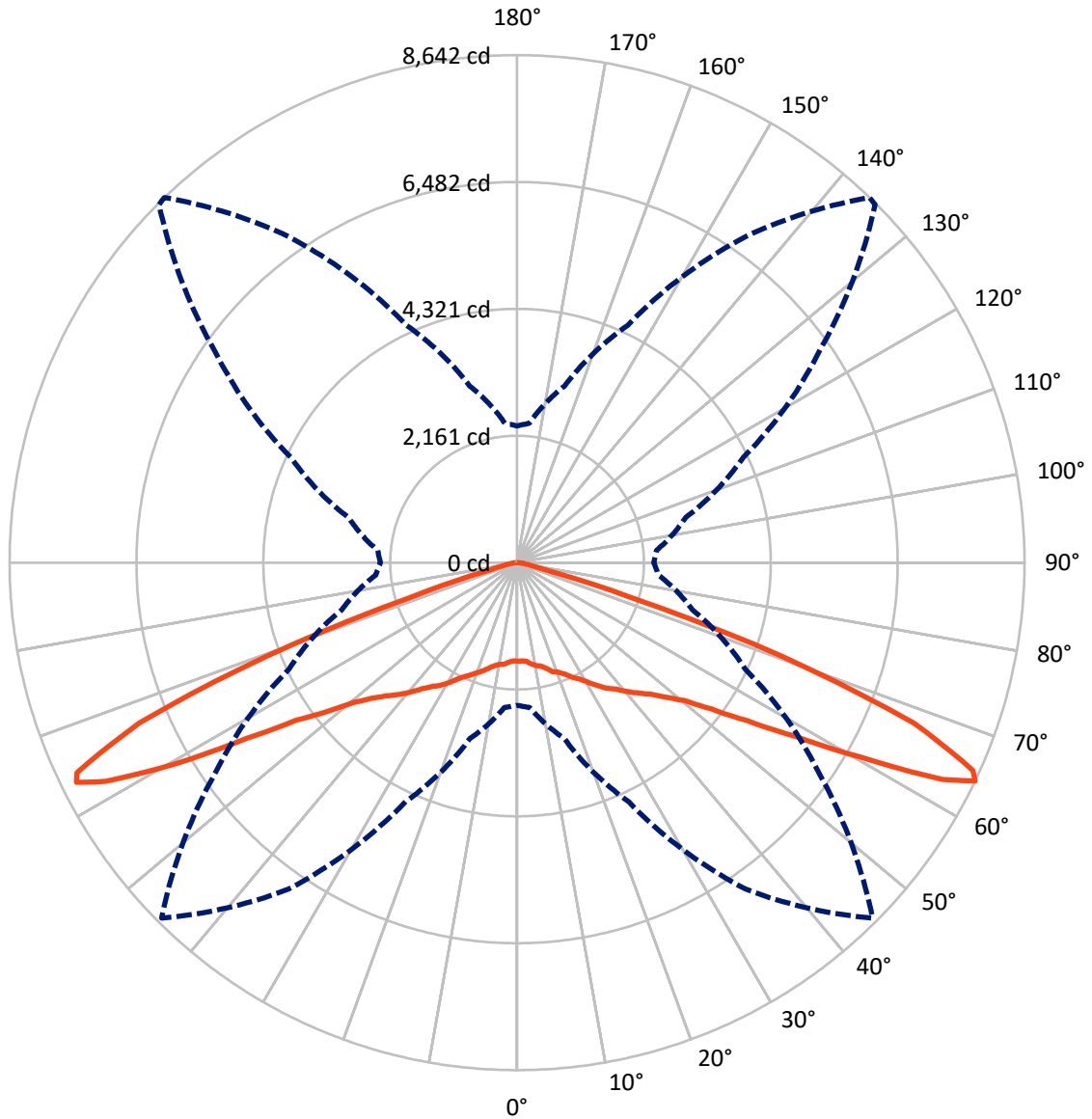
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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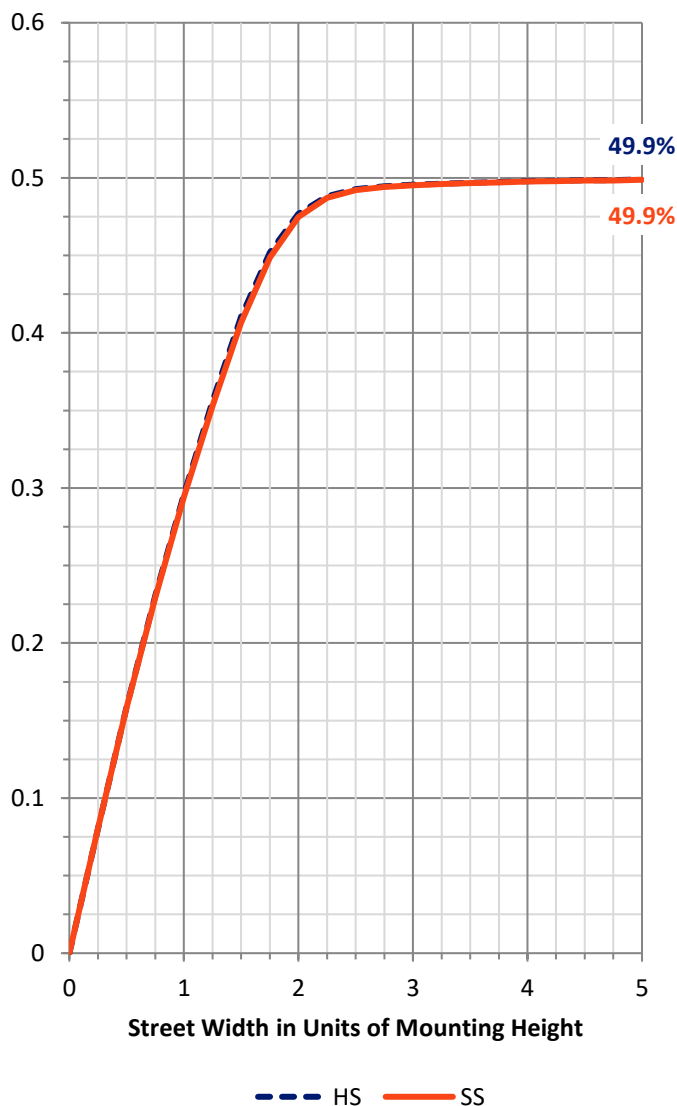
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7178.8	0.0	7178.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7165.2	0.0	7165.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	14344.0	0.0	14344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	1.2
10°-20°	531.8	3.7
20°-30°	999.5	7.0
30°-40°	1648.4	11.5
40°-50°	2578.0	18.0
50°-60°	4165.4	29.0
60°-70°	3750.7	26.1
70°-80°	444.3	3.1
80°-90°	60.8	0.4
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°	14344.0	100.0
0°-180°	14344.0	100.0

Coefficient of Utilization



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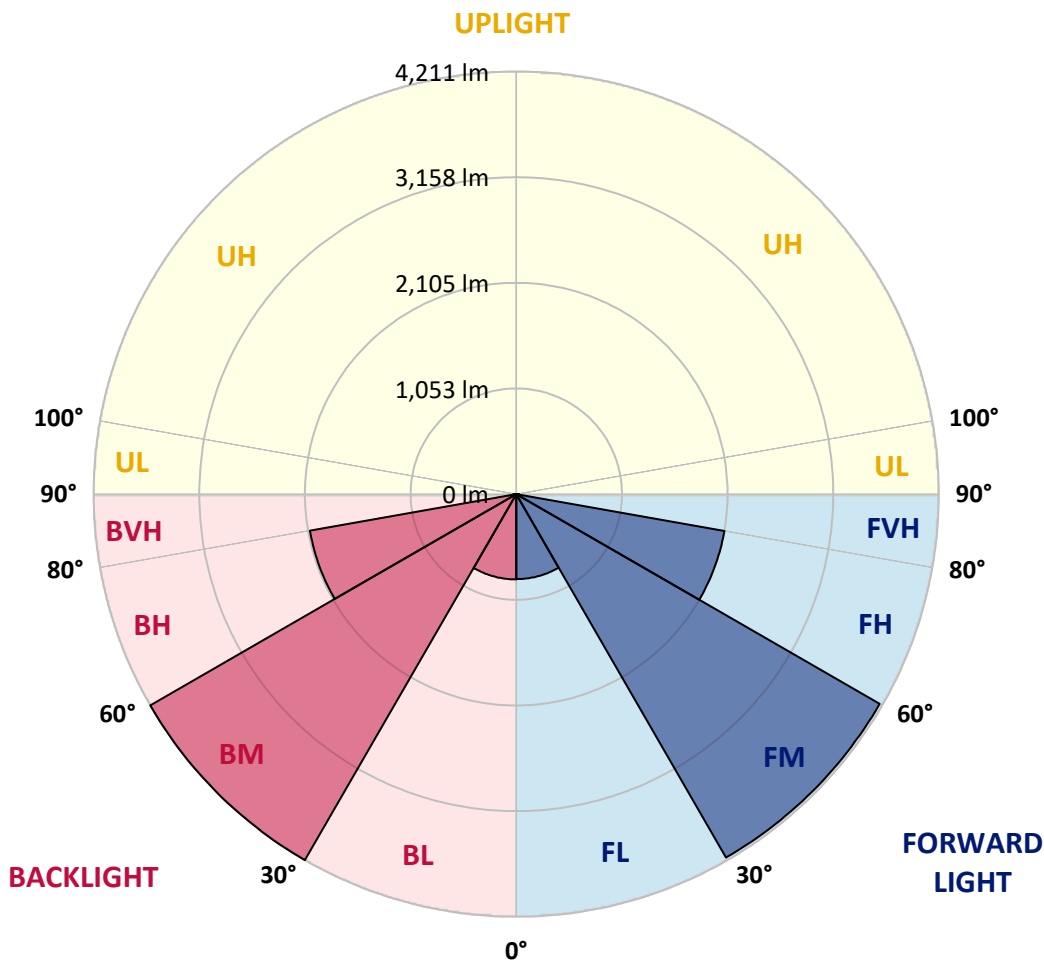
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.6	5.9			
FM (30°-60°)	4180.8	29.1			
FH (60°-80°)	2106.6	14.7			G2/5000
FVH (80°-90°)	31.2	0.2			G1/100
BL (0°-30°)	849.8	5.9	B2/1000		
BM (30°-60°)	4211.0	29.4	B3/5000		
BH (60°-80°)	2088.4	14.6	B3/2500		G2/5000
BVH (80°-90°)	29.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1659.6	1662.9	1692.5	1681.0	1690.9	1672.8	1686.0	1713.9	1681.0	1705.7	1713.9
5°	1677.7	1682.7	1682.7	1694.2	1700.8	1697.5	1705.7	1694.2	1725.4	1712.3	1732.0
7.5°	1743.5	1735.3	1722.2	1732.0	1733.7	1741.9	1750.1	1764.9	1760.0	1748.5	1768.2
10°	1755.0	1748.5	1768.2	1769.9	1761.6	1755.0	1763.3	1763.3	1778.1	1781.4	1781.4
12.5°	1774.8	1781.4	1779.7	1792.9	1794.5	1789.6	1802.7	1827.4	1820.8	1825.8	1814.3
15°	1850.4	1842.2	1840.6	1853.7	1875.1	1843.9	1866.9	1865.3	1858.7	1868.5	1842.2
17.5°	1916.2	1889.9	1901.4	1922.8	1914.6	1921.2	1950.8	1924.5	1931.0	1919.5	1911.3
20°	1973.8	1952.4	1954.1	1962.3	1962.3	1982.0	1993.6	1983.7	1977.1	1975.5	1978.7
22.5°	2038.0	2013.3	2014.9	2049.5	2061.0	2054.4	2046.2	2062.6	2065.9	2052.8	2067.6
25°	2085.7	2112.0	2120.2	2136.7	2112.0	2130.1	2123.5	2154.7	2174.5	2148.2	2166.3
27.5°	2210.7	2199.2	2220.5	2218.9	2238.6	2220.5	2232.1	2241.9	2250.1	2251.8	2243.6
30°	2322.5	2327.5	2306.1	2363.6	2317.6	2347.2	2366.9	2371.9	2381.7	2381.7	2357.1
32.5°	2440.9	2431.1	2465.6	2452.5	2444.2	2467.3	2445.9	2513.3	2473.8	2496.9	2468.9
35°	2574.2	2574.2	2587.3	2623.5	2574.2	2559.4	2598.9	2626.8	2626.8	2585.7	2595.6
37.5°	2723.9	2710.7	2727.2	2773.2	2735.4	2686.0	2758.4	2769.9	2761.7	2750.2	2730.4
40°	2829.1	2825.8	2858.7	2919.6	2865.3	2855.4	2868.6	2899.9	2909.7	2921.2	2894.9
42.5°	3006.8	3021.6	3117.0	3102.2	3057.8	3023.2	3019.9	3136.7	3108.8	3079.1	3064.3
45°	3269.9	3256.8	3306.1	3307.8	3250.2	3174.5	3191.0	3297.9	3345.6	3279.8	3304.5
47.5°	3478.8	3485.4	3520.0	3590.7	3457.5	3378.5	3439.4	3612.1	3597.3	3572.6	3595.6
50°	3758.5	3788.1	3896.6	3872.0	3753.5	3656.5	3789.7	3952.6	3970.7	3880.2	3863.7
52.5°	4145.0	4191.1	4250.3	4270.0	4156.5	4122.0	4130.2	4332.5	4288.1	4200.9	4145.0
55°	4483.8	4505.2	4613.8	4776.6	4768.4	4602.3	4697.7	4773.3	4592.4	4413.1	4427.9
57.5°	4628.6	4638.5	4941.1	5266.8	5460.9	5498.7	5390.2	5135.2	4704.3	4358.8	4337.5
60°	4268.4	4362.1	4727.3	5462.5	6349.1	6786.6	6064.5	5176.3	4442.7	4023.3	3992.0
62.5°	3411.4	3416.3	3959.1	5074.3	6901.8	8048.2	6322.8	4789.8	3745.3	3269.9	3144.9
64°	2429.4	2475.5	3098.9	4492.1	6786.6	8561.4	6291.5	4284.8	3087.4	2413.0	2325.8
65°	1743.5	1807.7	2409.7	3899.9	6516.9	8500.6	6197.8	3850.6	2496.9	1842.2	1753.4
67.5°	641.5	667.8	945.8	1950.8	4679.6	7243.9	4911.5	2116.9	1097.1	781.3	702.3
70°	297.7	299.4	350.4	644.8	2046.2	4844.1	2343.9	794.5	412.9	327.3	304.3
72.5°	218.8	223.7	245.1	297.7	602.0	2051.1	769.8	325.7	241.8	213.8	208.9
75°	177.6	180.9	187.5	215.5	278.0	549.4	312.5	225.3	192.4	172.7	166.1
77.5°	136.5	136.5	151.3	164.5	184.2	256.6	207.3	179.3	156.3	136.5	131.6
80°	98.7	100.3	118.4	128.3	125.0	169.4	149.7	148.0	128.3	106.9	98.7
82.5°	57.6	62.5	85.5	92.1	88.8	100.3	108.6	115.1	100.3	74.0	67.4
85°	32.9	34.5	49.3	51.0	51.0	47.7	62.5	69.1	67.4	46.1	41.1
87.5°	9.9	9.9	13.2	13.2	14.8	16.4	24.7	29.6	32.9	23.0	21.4
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°	136°	145°	155°	165°	175°	180°
0°	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1705.7	1681.0	1682.7	1689.3	1667.9	1676.1	1700.8	1682.7	1677.7	1667.9	1662.9
5°	1697.5	1723.8	1713.9	1717.2	1712.3	1689.3	1686.0	1700.8	1709.0	1694.2	1723.8
7.5°	1755.0	1743.5	1730.4	1735.3	1723.8	1743.5	1756.7	1727.1	1741.9	1733.7	1717.2
10°	1787.9	1766.6	1776.4	1773.1	1764.9	1784.7	1771.5	1768.2	1755.0	1737.0	1763.3
12.5°	1799.5	1824.1	1840.6	1812.6	1817.6	1807.7	1799.5	1799.5	1784.7	1779.7	1784.7
15°	1850.4	1871.8	1865.3	1886.6	1858.7	1868.5	1878.4	1853.7	1866.9	1830.7	1858.7
17.5°	1944.2	1926.1	1949.1	1921.2	1931.0	1950.8	1919.5	1919.5	1929.4	1909.7	1885.0
20°	2003.4	1995.2	1987.0	1988.6	1972.2	1990.3	1980.4	1975.5	1960.7	1967.2	1980.4
22.5°	2059.3	2047.8	2051.1	2056.1	2067.6	2059.3	2054.4	2059.3	2023.2	2056.1	2010.0
25°	2128.4	2159.7	2149.8	2171.2	2138.3	2159.7	2158.0	2126.8	2146.5	2133.4	2123.5
27.5°	2243.6	2227.1	2241.9	2215.6	2238.6	2240.3	2220.5	2273.2	2250.1	2246.9	2240.3
30°	2391.6	2380.1	2370.2	2355.4	2373.5	2358.7	2375.2	2380.1	2358.7	2342.3	2311.0
32.5°	2475.5	2506.7	2518.3	2482.1	2483.7	2491.9	2477.1	2462.3	2475.5	2480.4	2475.5
35°	2593.9	2623.5	2630.1	2602.1	2587.3	2628.5	2598.9	2648.2	2605.4	2607.1	2562.7
37.5°	2732.1	2740.3	2796.2	2765.0	2751.8	2732.1	2786.4	2779.8	2789.7	2710.7	2750.2
40°	2888.3	2918.0	2949.2	2870.3	2868.6	2886.7	2883.4	2921.2	2903.1	2891.6	2863.7
42.5°	3059.4	3121.9	3126.8	3074.2	3041.3	3038.0	3054.5	3138.4	3140.0	3064.3	3031.4
45°	3286.4	3355.5	3337.4	3235.4	3199.2	3194.3	3274.9	3311.1	3342.3	3312.7	3284.8
47.5°	3569.3	3615.4	3602.2	3508.5	3391.7	3424.6	3503.5	3617.0	3584.1	3544.6	3511.7
50°	3872.0	3926.2	3898.3	3804.5	3692.7	3692.7	3789.7	3934.5	3924.6	3847.3	3817.7
52.5°	4207.5	4286.5	4350.6	4217.4	4123.6	4138.4	4291.4	4344.0	4319.4	4265.1	4240.4
55°	4457.5	4608.9	4740.4	4747.0	4752.0	4750.3	4789.8	4842.4	4666.4	4579.2	4490.4
57.5°	4396.7	4682.9	5133.6	5439.5	5530.0	5577.7	5564.5	5321.1	4904.9	4618.7	4648.3
60°	3962.4	4429.6	5156.6	6138.6	6796.5	6730.7	6490.6	5528.3	4773.3	4289.8	4228.9
62.5°	3161.4	3723.9	4770.0	6335.9	8148.6	8128.8	6872.2	5049.7	3977.2	3365.3	3327.5
64°	2381.7	2973.9	4255.2	6284.9	8622.3	8642.0	6775.1	4460.8	3112.0	2381.7	2324.2
65°	1822.5	2371.9	3750.2	6179.7	8520.3	8531.8	6505.4	3852.2	2365.3	1690.9	1628.4
67.5°	725.4	1009.9	2034.7	4686.2	7316.3	7285.0	4641.7	1863.6	904.7	588.9	577.3
70°	309.2	384.9	713.9	2220.5	4898.3	4807.9	1998.5	605.3	335.5	281.3	279.6
72.5°	212.2	235.2	305.9	685.9	2036.3	1988.6	569.1	281.3	228.6	210.5	210.5
75°	171.1	187.5	222.1	287.8	539.5	519.8	268.1	207.3	182.6	169.4	167.8
77.5°	133.2	149.7	174.4	199.0	246.7	245.1	179.3	156.3	141.5	131.6	128.3
80°	105.3	121.7	138.2	141.5	161.2	157.9	121.7	123.4	115.1	95.4	93.8
82.5°	72.4	98.7	110.2	100.3	95.4	95.4	87.2	87.2	80.6	59.2	54.3
85°	44.4	65.8	69.1	59.2	44.4	44.4	47.7	46.1	42.8	31.3	29.6
87.5°	23.0	31.3	28.0	23.0	14.8	14.8	13.2	9.9	9.9	8.2	8.2
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)