

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: P478895

Luminaire Tested: **IFLD-S-SA2D-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478895
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

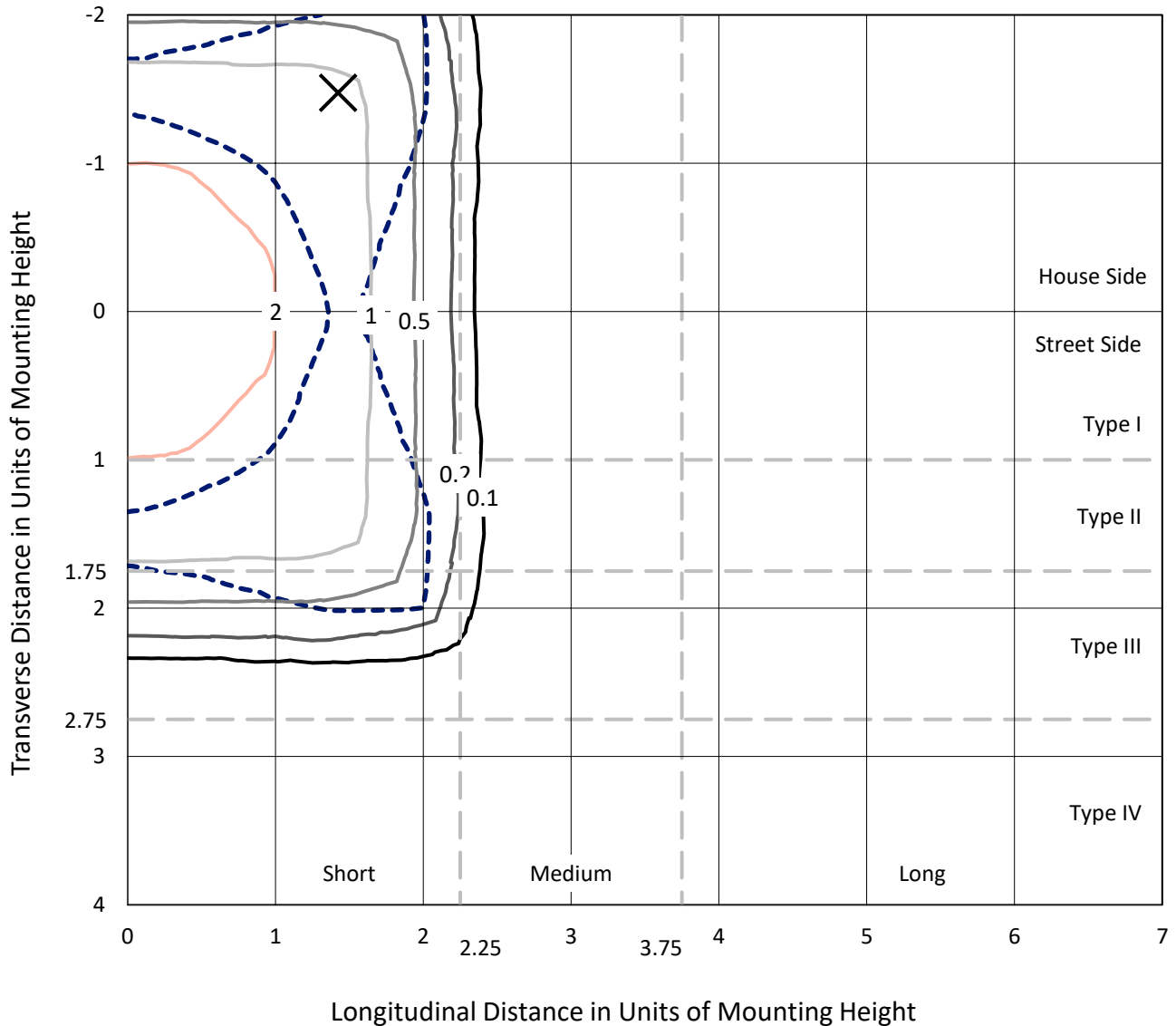
Lumens per Lamp: N/A
Luminaire Lumens: 15384.7 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 123.9
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

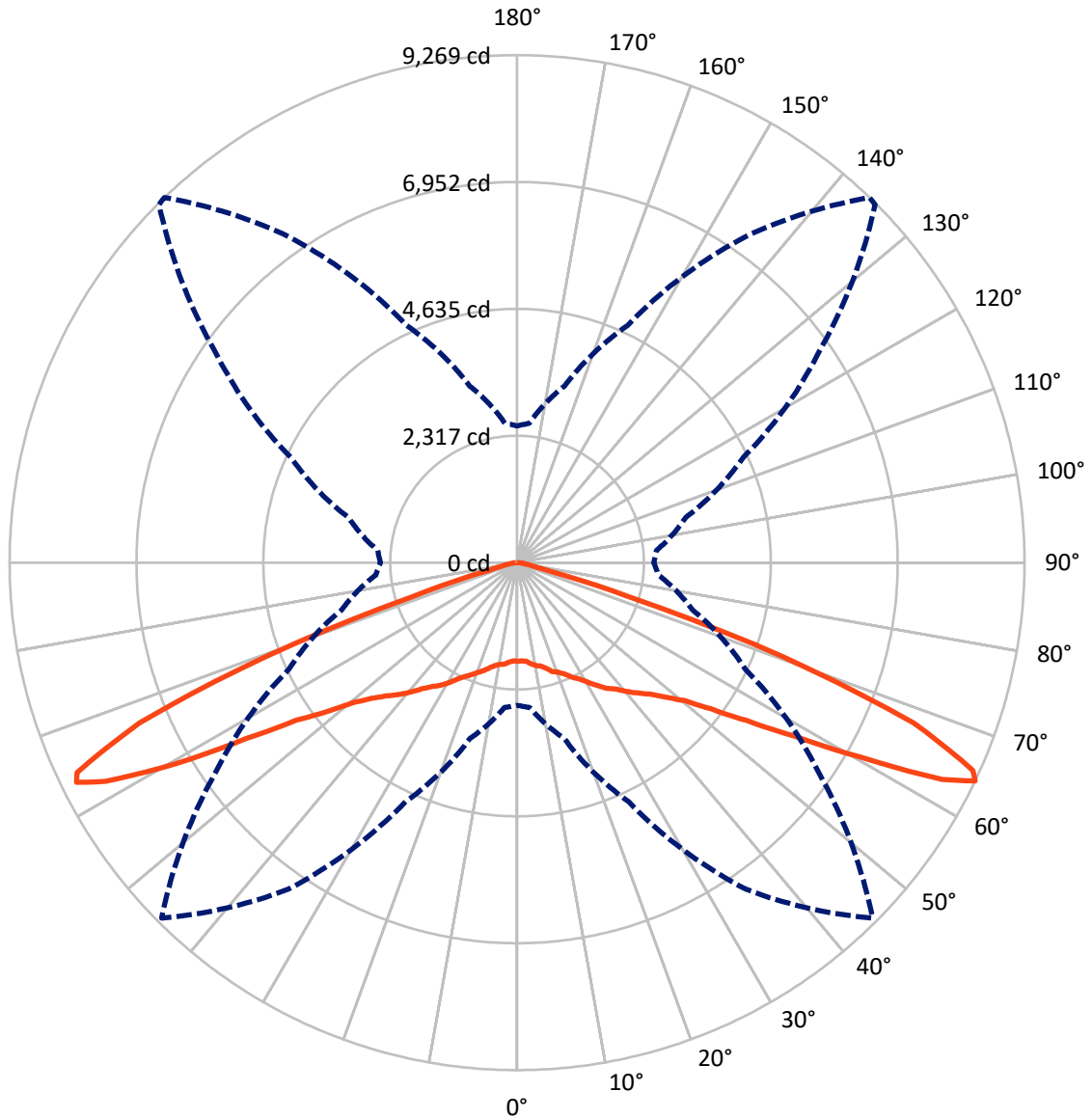
× Max cd
 - - - 1/2 Max cd



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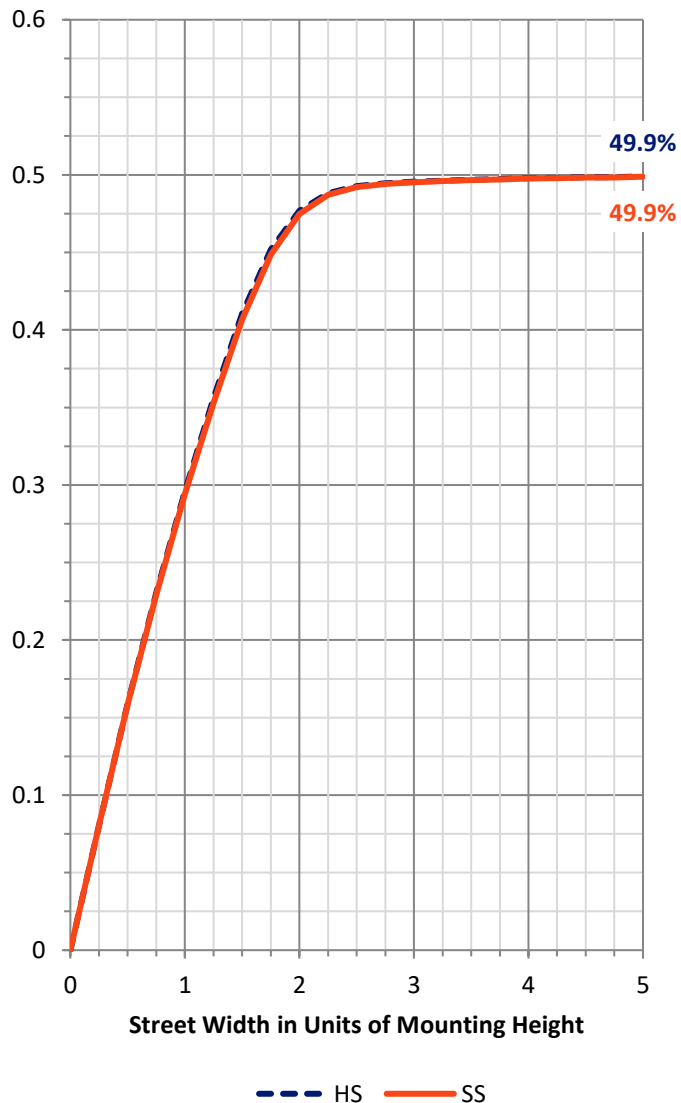
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7699.7	0.0	7699.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7685.0	0.0	7685.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15384.7	0.0	15384.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.2
10°-20°	570.4	3.7
20°-30°	1072.1	7.0
30°-40°	1768.0	11.5
40°-50°	2765.0	18.0
50°-60°	4467.6	29.0
60°-70°	4022.8	26.1
70°-80°	476.5	3.1
80°-90°	65.2	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°	15384.7	100.0
0°-180°	15384.7	100.0

Coefficient of Utilization



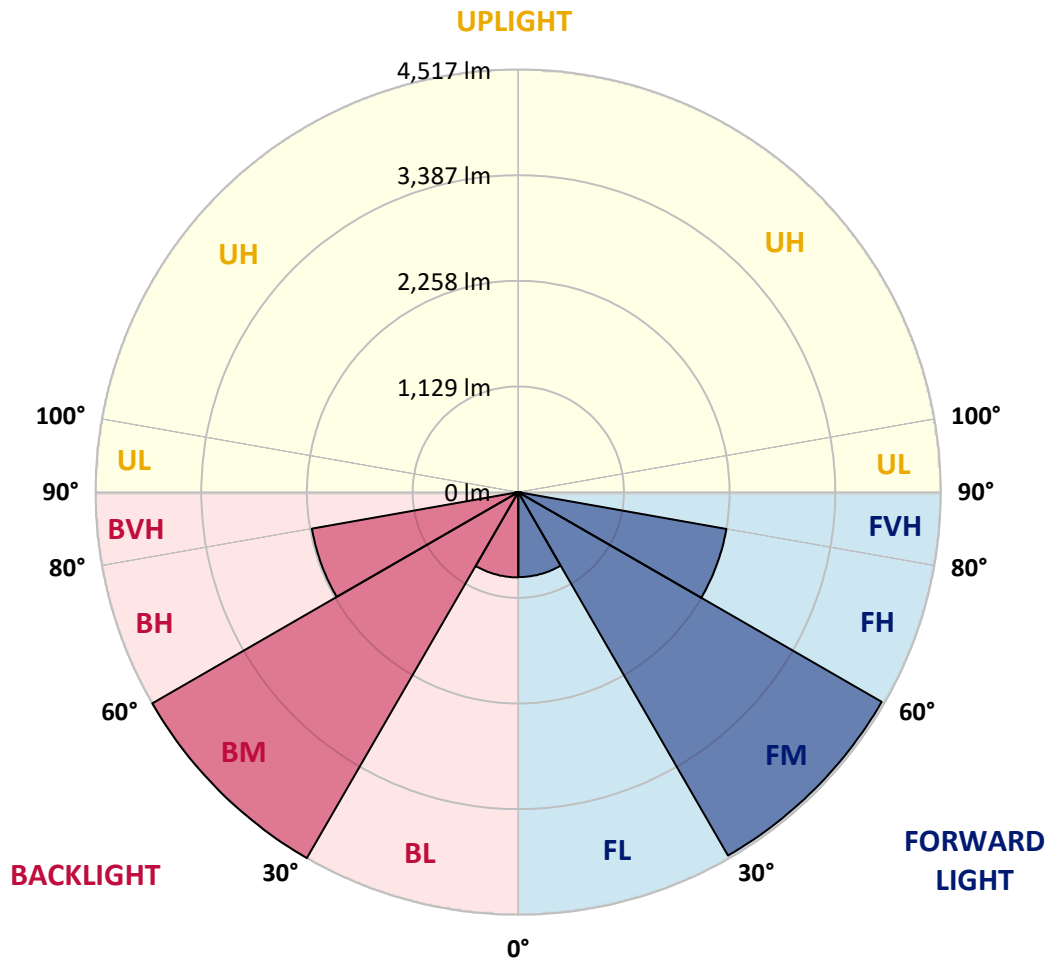
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.0	5.9			
FM (30°-60°)	4484.2	29.1			
FH (60°-80°)	2259.4	14.7			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	911.5	5.9	B2/1000		
BM (30°-60°)	4516.5	29.4	B3/5000		
BH (60°-80°)	2239.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	31.8	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°	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2
2.5°	1780.1	1783.6	1815.4	1803.0	1813.6	1794.2	1808.3	1838.3	1803.0	1829.5	1838.3
5°	1799.5	1804.8	1804.8	1817.1	1824.2	1820.6	1829.5	1817.1	1850.6	1836.5	1857.7
7.5°	1870.0	1861.2	1847.1	1857.7	1859.5	1868.3	1877.1	1893.0	1887.7	1875.3	1896.5
10°	1882.4	1875.3	1896.5	1898.3	1889.4	1882.4	1891.2	1891.2	1907.1	1910.6	1910.6
12.5°	1903.6	1910.6	1908.9	1923.0	1924.7	1919.4	1933.6	1960.0	1953.0	1958.3	1945.9
15°	1984.7	1975.9	1974.1	1988.2	2011.2	1977.7	2002.4	2000.6	1993.5	2004.1	1975.9
17.5°	2055.3	2027.1	2039.4	2062.3	2053.5	2060.6	2092.3	2064.1	2071.2	2058.8	2050.0
20°	2117.0	2094.1	2095.9	2104.7	2104.7	2125.8	2138.2	2127.6	2120.6	2118.8	2122.3
22.5°	2185.8	2159.4	2161.1	2198.2	2210.5	2203.5	2194.7	2212.3	2215.8	2201.7	2217.6
25°	2237.0	2265.2	2274.0	2291.7	2265.2	2284.6	2277.6	2311.1	2332.3	2304.0	2323.4
27.5°	2371.1	2358.7	2381.7	2379.9	2401.1	2381.7	2394.0	2404.6	2413.4	2415.2	2406.4
30°	2491.0	2496.3	2473.4	2535.1	2485.7	2517.5	2538.7	2544.0	2554.5	2554.5	2528.1
32.5°	2618.1	2607.5	2644.5	2630.4	2621.6	2646.3	2623.3	2695.7	2653.3	2678.0	2648.0
35°	2761.0	2761.0	2775.1	2813.9	2761.0	2745.1	2787.4	2817.4	2817.4	2773.3	2783.9
37.5°	2921.5	2907.4	2925.0	2974.4	2933.8	2880.9	2958.5	2970.9	2962.1	2949.7	2928.6
40°	3034.4	3030.9	3066.2	3131.4	3073.2	3062.6	3076.7	3110.3	3120.9	3133.2	3105.0
42.5°	3224.9	3240.8	3343.1	3327.3	3279.6	3242.6	3239.1	3364.3	3334.3	3302.6	3286.7
45°	3507.2	3493.1	3546.0	3547.8	3486.0	3404.9	3422.5	3537.2	3588.4	3517.8	3544.3
47.5°	3731.3	3738.3	3775.4	3851.2	3708.3	3623.6	3688.9	3874.2	3858.3	3831.8	3856.5
50°	4031.2	4062.9	4179.4	4152.9	4025.9	3921.8	4064.7	4239.3	4258.8	4161.7	4144.1
52.5°	4445.8	4495.2	4558.7	4579.8	4458.1	4421.1	4429.9	4646.9	4599.2	4505.7	4445.8
55°	4809.2	4832.1	4948.6	5123.2	5114.4	4936.2	5038.5	5119.7	4925.6	4733.3	4749.2
57.5°	4964.4	4975.0	5299.6	5648.9	5857.1	5897.7	5781.2	5507.8	5045.6	4675.1	4652.2
60°	4578.1	4678.6	5070.3	5858.9	6809.8	7279.0	6504.6	5551.9	4765.1	4315.2	4281.7
62.5°	3658.9	3664.2	4246.4	5442.5	7402.5	8632.2	6781.5	5137.3	4017.1	3507.2	3373.1
64°	2605.7	2655.1	3323.7	4818.0	7279.0	9182.6	6748.0	4595.7	3311.4	2588.1	2494.6
65°	1870.0	1938.8	2584.5	4182.9	6989.7	9117.3	6647.5	4130.0	2678.0	1975.9	1880.6
67.5°	688.0	716.3	1014.4	2092.3	5019.1	7769.5	5267.9	2270.5	1176.7	838.0	753.3
70°	319.3	321.1	375.8	691.6	2194.7	5195.5	2514.0	852.1	442.8	351.1	326.4
72.5°	234.6	239.9	262.9	319.3	645.7	2199.9	825.6	349.3	259.3	229.3	224.1
75°	190.5	194.1	201.1	231.1	298.1	589.2	335.2	241.7	206.4	185.2	178.2
77.5°	146.4	146.4	162.3	176.4	197.6	275.2	222.3	192.3	167.6	146.4	141.1
80°	105.9	107.6	127.0	137.6	134.1	181.7	160.5	158.8	137.6	114.7	105.9
82.5°	61.7	67.0	91.7	98.8	95.3	107.6	116.4	123.5	107.6	79.4	72.3
85°	35.3	37.0	52.9	54.7	54.7	51.2	67.0	74.1	72.3	49.4	44.1
87.5°	10.6	10.6	14.1	14.1	15.9	17.6	26.5	31.8	35.3	24.7	22.9
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°	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2	1801.2
2.5°	1829.5	1803.0	1804.8	1811.8	1788.9	1797.7	1824.2	1804.8	1799.5	1788.9	1783.6
5°	1820.6	1848.9	1838.3	1841.8	1836.5	1811.8	1808.3	1824.2	1833.0	1817.1	1848.9
7.5°	1882.4	1870.0	1855.9	1861.2	1848.9	1870.0	1884.2	1852.4	1868.3	1859.5	1841.8
10°	1917.7	1894.7	1905.3	1901.8	1893.0	1914.1	1900.0	1896.5	1882.4	1863.0	1891.2
12.5°	1930.0	1956.5	1974.1	1944.1	1949.4	1938.8	1930.0	1930.0	1914.1	1908.9	1914.1
15°	1984.7	2007.6	2000.6	2023.5	1993.5	2004.1	2014.7	1988.2	2002.4	1963.5	1993.5
17.5°	2085.3	2065.9	2090.6	2060.6	2071.2	2092.3	2058.8	2058.8	2069.4	2048.2	2021.8
20°	2148.8	2140.0	2131.1	2132.9	2115.3	2134.7	2124.1	2118.8	2102.9	2110.0	2124.1
22.5°	2208.8	2196.4	2199.9	2205.2	2217.6	2208.8	2203.5	2208.8	2170.0	2205.2	2155.8
25°	2282.9	2316.4	2305.8	2328.7	2293.4	2316.4	2314.6	2281.1	2302.3	2288.2	2277.6
27.5°	2406.4	2388.7	2404.6	2376.4	2401.1	2402.8	2381.7	2438.1	2413.4	2409.9	2402.8
30°	2565.1	2552.8	2542.2	2526.3	2545.7	2529.8	2547.5	2552.8	2529.8	2512.2	2478.7
32.5°	2655.1	2688.6	2701.0	2662.2	2663.9	2672.7	2656.9	2641.0	2655.1	2660.4	2655.1
35°	2782.1	2813.9	2820.9	2790.9	2775.1	2819.2	2787.4	2840.3	2794.5	2796.2	2748.6
37.5°	2930.3	2939.1	2999.1	2965.6	2951.5	2930.3	2988.5	2981.5	2992.1	2907.4	2949.7
40°	3097.9	3129.7	3163.2	3078.5	3076.7	3096.2	3092.6	3133.2	3113.8	3101.4	3071.5
42.5°	3281.4	3348.4	3353.7	3297.3	3262.0	3258.5	3276.1	3366.1	3367.8	3286.7	3251.4
45°	3524.9	3598.9	3579.5	3470.2	3431.3	3426.1	3512.5	3551.3	3584.8	3553.1	3523.1
47.5°	3828.3	3877.7	3863.6	3763.0	3637.8	3673.0	3757.7	3879.5	3844.2	3801.8	3766.5
50°	4152.9	4211.1	4181.1	4080.6	3960.6	3960.6	4064.7	4219.9	4209.4	4126.4	4094.7
52.5°	4512.8	4597.5	4666.3	4523.4	4422.8	4438.7	4602.8	4659.2	4632.8	4574.5	4548.1
55°	4781.0	4943.3	5084.4	5091.5	5096.7	5095.0	5137.3	5193.8	5005.0	4911.5	4816.2
57.5°	4715.7	5022.6	5506.0	5834.2	5931.2	5982.4	5968.3	5707.2	5260.8	4953.8	4985.6
60°	4249.9	4751.0	5530.7	6584.0	7289.6	7219.1	6961.5	5929.4	5119.7	4601.0	4535.7
62.5°	3390.8	3994.1	5116.1	6795.7	8739.8	8718.6	7370.8	5416.1	4265.8	3609.5	3569.0
64°	2554.5	3189.7	4564.0	6741.0	9247.9	9269.1	7266.7	4784.5	3337.8	2554.5	2492.8
65°	1954.7	2544.0	4022.4	6628.1	9138.5	9150.9	6977.4	4131.7	2536.9	1813.6	1746.5
67.5°	778.0	1083.2	2182.3	5026.2	7847.1	7813.6	4978.5	1998.8	970.3	631.6	619.2
70°	331.7	412.8	765.7	2381.7	5253.8	5156.7	2143.5	649.2	359.9	301.7	299.9
72.5°	227.6	252.3	328.1	735.7	2184.1	2132.9	610.4	301.7	245.2	225.8	225.8
75°	183.5	201.1	238.2	308.7	578.7	557.5	287.6	222.3	195.8	181.7	179.9
77.5°	142.9	160.5	187.0	213.5	264.6	262.9	192.3	167.6	151.7	141.1	137.6
80°	112.9	130.6	148.2	151.7	172.9	169.4	130.6	132.3	123.5	102.3	100.6
82.5°	77.6	105.9	118.2	107.6	102.3	102.3	93.5	93.5	86.4	63.5	58.2
85°	47.6	70.6	74.1	63.5	47.6	47.6	51.2	49.4	45.9	33.5	31.8
87.5°	24.7	33.5	30.0	24.7	15.9	15.9	14.1	10.6	10.6	8.8	8.8
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)