

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: P479307

Luminaire Tested: **IFLD-M-SA4A-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

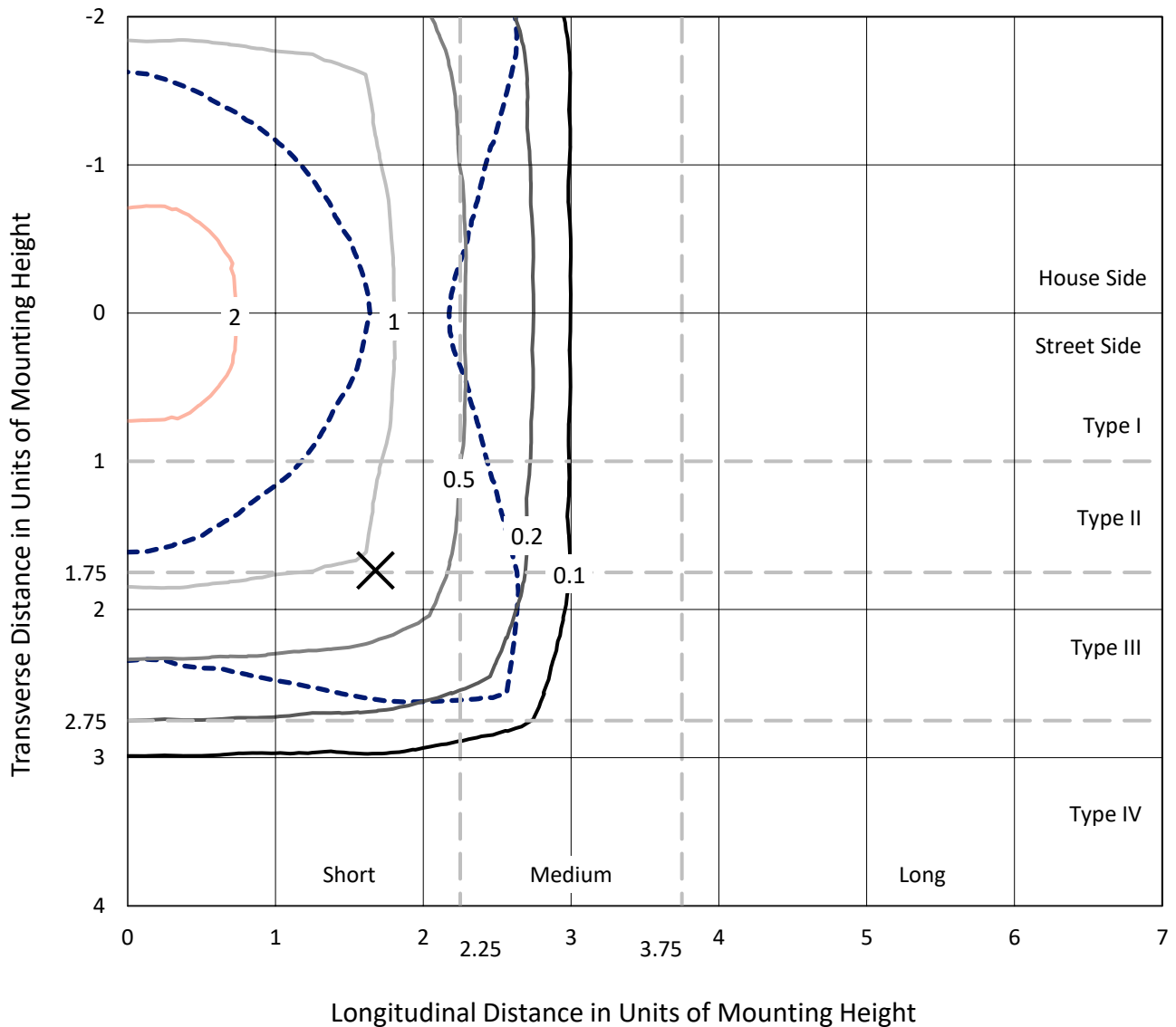
Lumens per Lamp: N/A
Luminaire Lumens: 18385.8 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

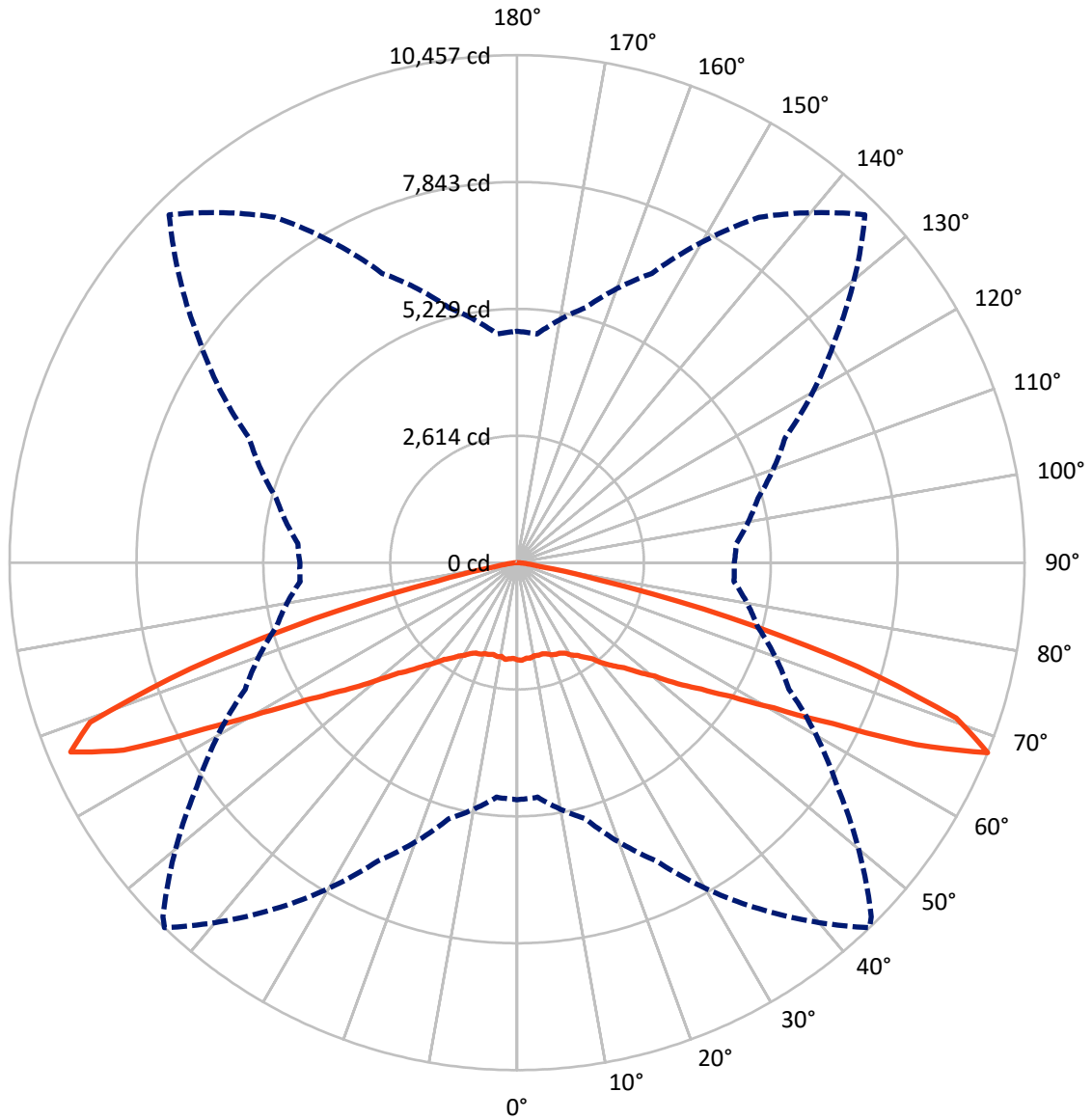
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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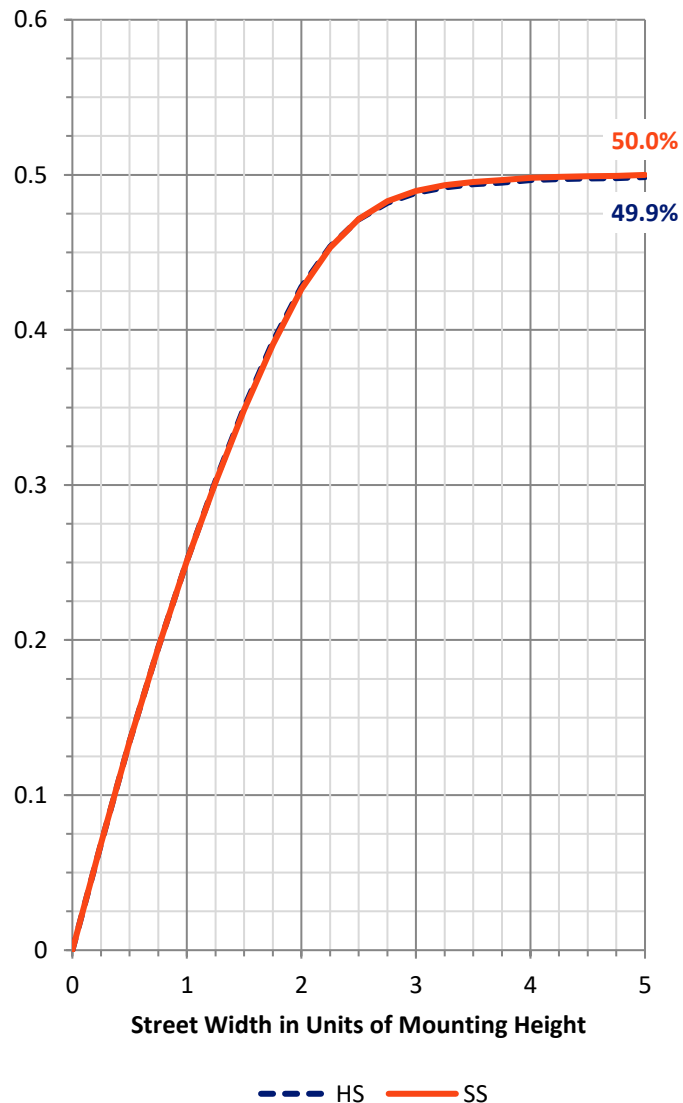
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9169.3	0.0	9169.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9216.4	0.0	9216.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	18385.8	0.0	18385.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	1.0
10°-20°	555.2	3.0
20°-30°	944.2	5.1
30°-40°	1497.0	8.1
40°-50°	2441.0	13.3
50°-60°	4169.0	22.7
60°-70°	6341.0	34.5
70°-80°	2137.3	11.6
80°-90°	111.0	0.6
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°	18385.8	100.0
0°-180°	18385.8	100.0

Coefficient of Utilization



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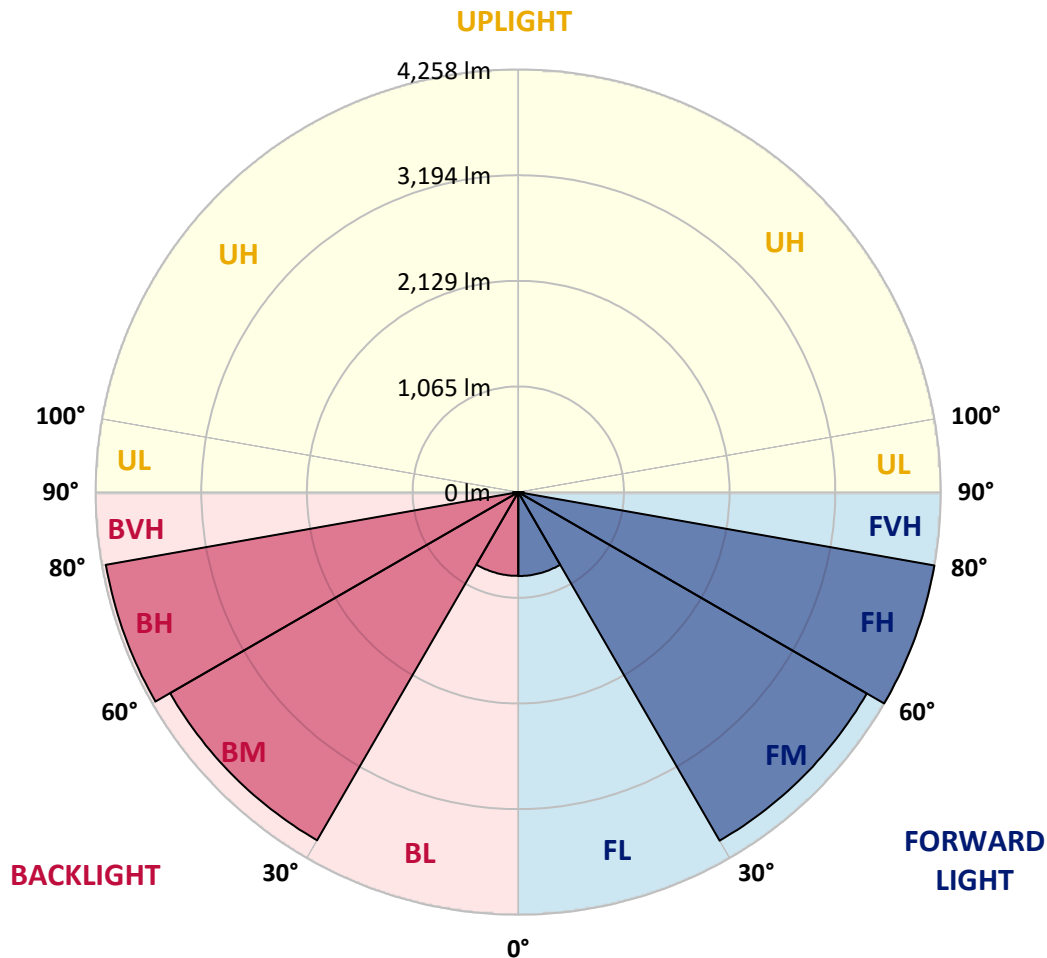
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.6	4.6			
FM (30°-60°)	4055.7	22.1			
FH (60°-80°)	4258.3	23.2			G2/5000
FVH (80°-90°)	56.8	0.3			G1/100
BL (0°-30°)	843.9	4.6	B2/1000		
BM (30°-60°)	4051.3	22.0	B3/5000		
BH (60°-80°)	4219.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	54.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3
2.5°	1962.2	1985.2	2002.0	1999.9	2006.2	2012.5	2004.1	2016.7	2008.3	2023.0	2031.4
5°	1999.9	1993.6	1995.7	1983.1	2012.5	1978.9	1978.9	1995.7	2016.7	1991.5	2006.2
7.5°	1976.8	1972.6	1962.2	1981.0	1987.3	1987.3	2004.1	1972.6	2008.3	2016.7	2018.8
10°	1951.7	1928.6	1960.1	1978.9	1983.1	1949.6	1964.3	1972.6	1962.2	1972.6	1978.9
12.5°	1930.7	1943.3	1943.3	1943.3	1937.0	1960.1	1974.7	1972.6	1951.7	1970.6	1937.0
15°	1928.6	1922.3	1941.2	1958.0	1947.5	1951.7	1958.0	1976.8	1937.0	1945.4	1945.4
17.5°	1926.5	1934.9	1941.2	1939.1	1974.7	1974.7	1968.5	1955.9	1987.3	1970.6	1947.5
20°	1934.9	1928.6	1945.4	1951.7	1976.8	2027.2	2008.3	1997.8	1981.0	1960.1	1960.1
22.5°	1945.4	1941.2	1964.3	1991.5	2039.8	2052.4	2050.3	2037.7	2008.3	1983.1	1978.9
25°	1983.1	1945.4	1970.6	2023.0	2039.8	2065.0	2081.8	2065.0	2025.1	2031.4	1993.6
27.5°	2039.8	2033.5	2067.1	2102.8	2088.1	2111.2	2096.5	2109.1	2111.2	2079.7	2041.9
30°	2107.0	2088.1	2109.1	2178.3	2184.6	2209.8	2184.6	2151.0	2161.5	2134.2	2115.4
32.5°	2203.5	2197.2	2237.1	2283.2	2291.6	2279.0	2266.4	2285.3	2241.3	2220.3	2186.7
35°	2266.4	2293.7	2342.0	2377.7	2405.0	2392.4	2398.7	2379.8	2390.3	2346.2	2331.5
37.5°	2453.2	2442.7	2453.2	2514.1	2520.4	2514.1	2520.4	2541.4	2526.7	2488.9	2451.1
40°	2629.5	2612.7	2637.9	2707.1	2702.9	2723.9	2682.0	2705.0	2705.0	2633.7	2619.0
42.5°	2761.7	2818.4	2847.7	2904.4	2925.4	2906.5	2898.1	2902.3	2948.5	2864.5	2833.1
45°	3034.5	3032.4	3120.6	3152.0	3093.3	3089.1	3072.3	3122.7	3154.1	3105.9	3093.3
47.5°	3330.4	3345.1	3395.5	3408.1	3443.7	3378.7	3378.7	3385.0	3496.2	3382.9	3324.1
50°	3596.9	3615.8	3716.6	3815.2	3748.0	3678.8	3706.1	3739.6	3800.5	3693.5	3643.1
52.5°	3920.1	4022.9	4090.1	4142.6	4190.8	4142.6	4079.6	4117.4	4237.0	4094.3	4031.3
55°	4386.0	4467.8	4530.8	4627.3	4667.2	4602.1	4595.9	4591.7	4658.8	4507.7	4421.7
57.5°	4906.4	4872.9	4973.6	5122.6	5267.4	5204.4	5185.5	5189.7	5206.5	4992.5	4927.4
60°	5552.8	5590.6	5710.2	5840.3	5993.5	6081.6	5957.8	5886.5	5901.2	5609.5	5508.7
62.5°	5922.1	6006.1	6276.8	6723.8	7032.3	7307.2	7326.1	6862.3	6551.7	5985.1	5557.0
65°	5743.8	5731.2	6241.1	7068.0	8236.9	9036.4	8916.8	7792.0	6707.0	5806.7	5231.7
67.5°	4885.5	4851.9	5468.9	6780.5	8711.1	10457.1	10320.7	8054.3	6182.4	5137.3	4486.7
70°	3147.8	3139.5	3808.9	5168.8	7777.3	9600.9	9651.3	7315.6	5032.4	3762.7	3118.5
72.5°	1143.7	1213.0	1601.2	2778.5	5282.1	7345.0	7376.4	5416.4	2893.9	1739.7	1282.2
75°	421.8	434.4	505.8	902.4	2407.1	4509.8	4627.3	2627.4	1028.3	566.6	461.7
77.5°	243.4	245.5	270.7	335.8	713.5	1760.7	1832.0	797.5	398.7	302.2	279.1
80°	165.8	163.7	191.0	218.3	285.4	499.5	530.9	333.7	251.8	209.9	176.3
82.5°	96.5	102.8	140.6	155.3	174.2	220.3	224.5	207.8	188.9	155.3	115.4
85°	58.8	48.3	77.6	86.0	100.7	98.6	98.6	113.3	121.7	109.1	65.1
87.5°	14.7	14.7	18.9	21.0	27.3	21.0	23.1	44.1	58.8	54.6	33.6
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°	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3
2.5°	2012.5	2006.2	2010.4	2033.5	2018.8	1974.7	1985.2	2008.3	1989.4	1978.9	1976.8
5°	2004.1	2016.7	2002.0	2006.2	2020.9	1985.2	1991.5	2020.9	2008.3	2012.5	1989.4
7.5°	2006.2	2012.5	1999.9	1981.0	1981.0	2010.4	1993.6	1997.8	1978.9	2010.4	1968.5
10°	1993.6	1976.8	1962.2	1972.6	1968.5	1960.1	1953.8	1966.4	1947.5	1974.7	1945.4
12.5°	1955.9	1960.1	1955.9	1951.7	1960.1	1981.0	1947.5	1951.7	1922.3	1926.5	1941.2
15°	1941.2	1953.8	1949.6	1972.6	1983.1	1951.7	1976.8	1951.7	1928.6	1916.0	1939.1
17.5°	1947.5	1966.4	1960.1	1976.8	1958.0	1981.0	1985.2	1974.7	1947.5	1937.0	1947.5
20°	1953.8	1947.5	1955.9	1985.2	2012.5	1989.4	1989.4	1983.1	1958.0	1943.3	1943.3
22.5°	1968.5	1958.0	1970.6	1993.6	2002.0	2037.7	2006.2	1991.5	1949.6	1911.8	1947.5
25°	1997.8	2004.1	2012.5	2004.1	2050.3	2046.1	2041.9	2031.4	1966.4	1968.5	1962.2
27.5°	2054.5	2018.8	2029.3	2079.7	2086.0	2102.8	2081.8	2100.7	2031.4	2033.5	1991.5
30°	2123.7	2086.0	2119.5	2163.6	2161.5	2193.0	2182.5	2186.7	2138.4	2111.2	2054.5
32.5°	2199.3	2195.1	2216.1	2243.4	2253.9	2270.6	2268.5	2268.5	2239.2	2167.8	2178.3
35°	2283.2	2312.6	2337.8	2367.2	2371.4	2392.4	2363.0	2367.2	2337.8	2285.3	2302.1
37.5°	2449.0	2446.9	2474.2	2509.9	2514.1	2497.3	2520.4	2509.9	2470.0	2434.3	2407.1
40°	2642.1	2600.1	2625.3	2709.2	2715.5	2686.2	2684.1	2682.0	2652.6	2574.9	2558.1
42.5°	2810.0	2864.5	2860.3	2887.6	2868.7	2854.0	2906.5	2877.1	2854.0	2772.2	2757.5
45°	3026.1	3042.9	3097.5	3185.6	3095.4	3095.4	3131.1	3108.0	3095.4	3034.5	2977.9
47.5°	3294.7	3309.4	3418.6	3424.9	3366.1	3326.2	3437.4	3441.6	3389.2	3343.0	3273.8
50°	3609.5	3615.8	3714.5	3815.2	3750.1	3674.6	3787.9	3832.0	3714.5	3651.5	3565.5
52.5°	3955.8	3936.9	4018.7	4207.6	4144.7	4121.6	4243.3	4253.8	4094.3	3995.7	4018.7
55°	4354.5	4329.3	4551.8	4679.8	4639.9	4598.0	4652.5	4677.7	4549.7	4388.1	4444.8
57.5°	4870.8	4883.4	4994.6	5120.5	5185.5	5196.0	5221.2	5196.0	5065.9	4902.2	4849.8
60°	5387.0	5424.8	5640.9	5878.1	5899.1	6083.7	6050.2	5924.2	5739.6	5506.6	5517.1
62.5°	5578.0	5546.5	5894.9	6474.1	6967.2	7305.1	7156.1	6709.1	6281.0	5857.1	5888.6
65°	5193.9	5271.6	5745.9	6652.4	7722.7	9059.5	8266.2	7030.2	6165.6	5617.9	5557.0
67.5°	4476.2	4535.0	5137.3	6094.2	7993.4	10138.2	8686.0	6576.9	5437.4	4728.1	4765.8
70°	3118.5	3147.8	3737.5	4992.5	7248.4	9567.3	7836.0	5051.2	3754.3	2992.6	3034.5
72.5°	1254.9	1326.3	1714.5	3007.2	5351.3	7269.4	5275.8	2650.5	1557.1	1158.4	1051.4
75°	463.8	465.9	547.7	1034.6	2541.4	4568.6	2379.8	852.0	497.4	407.1	388.2
77.5°	268.6	266.5	285.4	373.5	736.6	1783.8	675.7	333.7	270.7	243.4	232.9
80°	167.9	165.8	195.2	247.6	323.2	489.0	285.4	207.8	182.6	157.4	157.4
82.5°	107.0	109.1	153.2	182.6	197.3	216.2	165.8	146.9	136.4	90.2	88.1
85°	69.3	63.0	107.0	121.7	109.1	96.5	92.3	77.6	71.4	44.1	48.3
87.5°	31.5	33.6	54.6	60.9	39.9	23.1	23.1	16.8	16.8	10.5	10.5
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)