

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: P478839

Luminaire Tested: **IFLD-M-SA4A-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478839
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

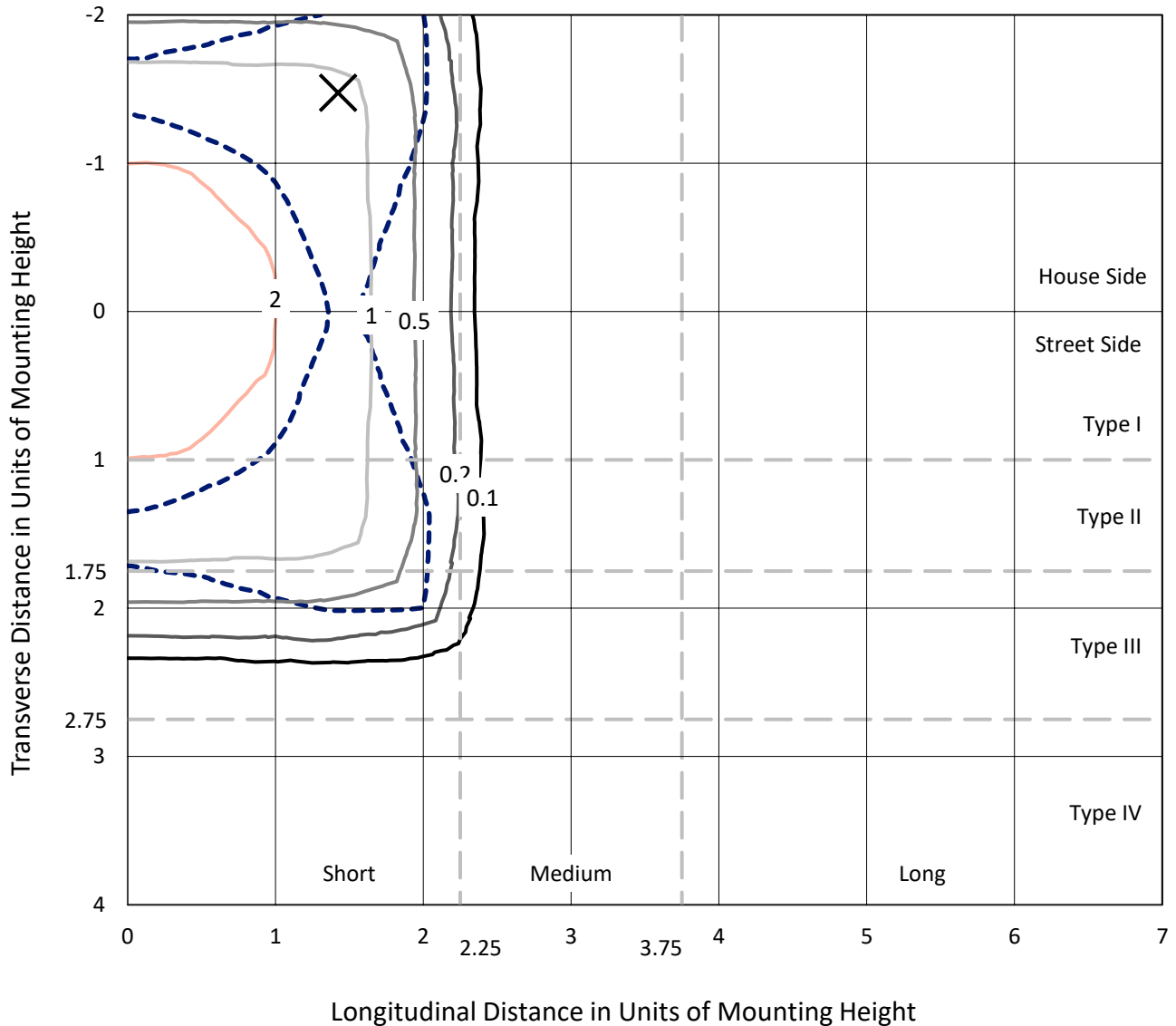
Lumens per Lamp: N/A
Luminaire Lumens: 15403.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

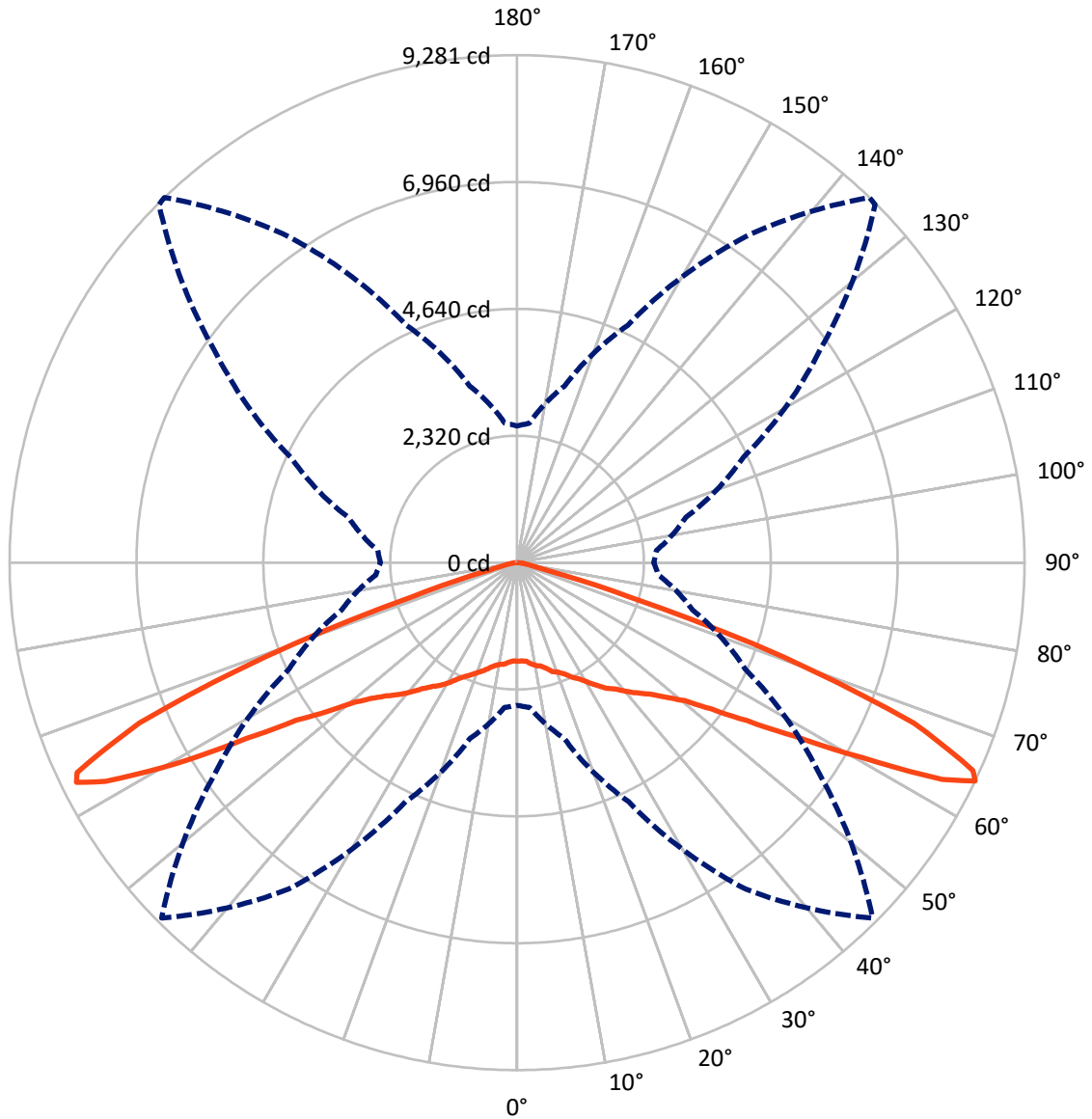
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	7709.2	0.0	7709.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7694.5	0.0	7694.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15403.7	0.0	15403.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	1.2
10°-20°	571.1	3.7
20°-30°	1073.4	7.0
30°-40°	1770.2	11.5
40°-50°	2768.5	18.0
50°-60°	4473.1	29.0
60°-70°	4027.8	26.1
70°-80°	477.1	3.1
80°-90°	65.3	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°	15403.7	100.0
0°-180°	15403.7	100.0

Coefficient of Utilization



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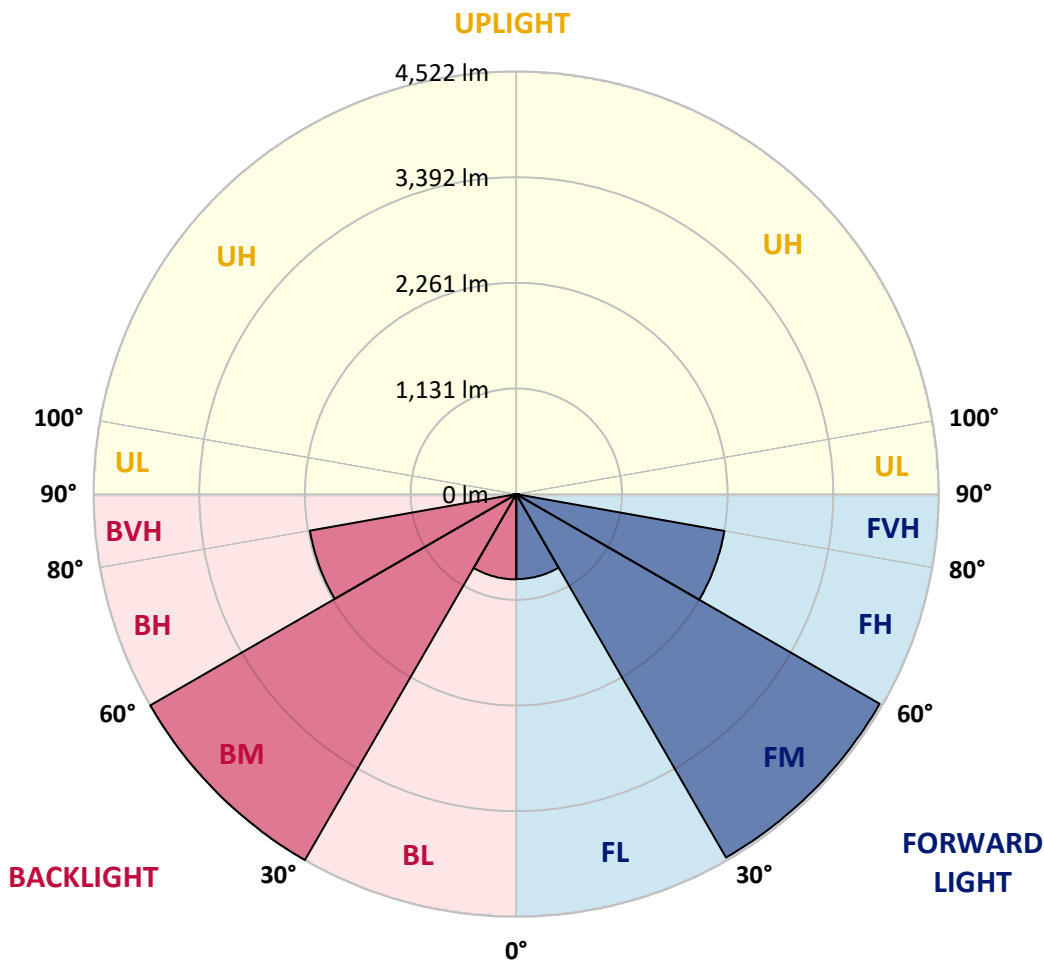
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.1	5.9			
FM (30°-60°)	4489.7	29.1			
FH (60°-80°)	2262.2	14.7			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	912.6	5.9	B2/1000		
BM (30°-60°)	4522.1	29.4	B3/5000		
BH (60°-80°)	2242.7	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°	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	1782.3	1785.8	1817.6	1805.2	1815.8	1796.4	1810.5	1840.5	1805.2	1831.7	1840.5
5°	1801.7	1807.0	1807.0	1819.4	1826.4	1822.9	1831.7	1819.4	1852.9	1838.8	1860.0
7.5°	1872.3	1863.5	1849.4	1860.0	1861.7	1870.6	1879.4	1895.3	1890.0	1877.6	1898.8
10°	1884.7	1877.6	1898.8	1900.6	1891.8	1884.7	1893.5	1893.5	1909.4	1913.0	1913.0
12.5°	1905.9	1913.0	1911.2	1925.3	1927.1	1921.8	1935.9	1962.4	1955.4	1960.7	1948.3
15°	1987.2	1978.3	1976.6	1990.7	2013.7	1980.1	2004.8	2003.1	1996.0	2006.6	1978.3
17.5°	2057.8	2029.6	2041.9	2064.9	2056.0	2063.1	2094.9	2066.6	2073.7	2061.3	2052.5
20°	2119.6	2096.7	2098.4	2107.3	2107.3	2128.5	2140.8	2130.2	2123.2	2121.4	2124.9
22.5°	2188.5	2162.0	2163.8	2200.9	2213.3	2206.2	2197.4	2215.0	2218.6	2204.4	2220.3
25°	2239.7	2268.0	2276.8	2294.5	2268.0	2287.4	2280.4	2313.9	2335.1	2306.9	2326.3
27.5°	2374.0	2361.6	2384.6	2382.8	2404.0	2384.6	2397.0	2407.6	2416.4	2418.1	2409.3
30°	2494.1	2499.4	2476.4	2538.3	2488.8	2520.6	2541.8	2547.1	2557.7	2557.7	2531.2
32.5°	2621.3	2610.7	2647.8	2633.6	2624.8	2649.5	2626.6	2699.0	2656.6	2681.3	2651.3
35°	2764.4	2764.4	2778.5	2817.3	2764.4	2748.5	2790.9	2820.9	2820.9	2776.7	2787.3
37.5°	2925.1	2911.0	2928.6	2978.1	2937.5	2884.5	2962.2	2974.6	2965.7	2953.4	2932.2
40°	3038.1	3034.6	3069.9	3135.3	3077.0	3066.4	3080.5	3114.1	3124.7	3137.1	3108.8
42.5°	3228.9	3244.8	3347.3	3331.4	3283.7	3246.6	3243.0	3368.5	3338.4	3306.6	3290.7
45°	3511.5	3497.4	3550.4	3552.2	3490.3	3409.1	3426.7	3541.6	3592.8	3522.1	3548.6
47.5°	3735.9	3742.9	3780.0	3856.0	3712.9	3628.1	3693.5	3878.9	3863.0	3836.5	3861.3
50°	4036.1	4067.9	4184.5	4158.0	4030.8	3926.6	4069.7	4244.6	4264.0	4166.8	4149.2
52.5°	4451.2	4500.7	4564.3	4585.5	4463.6	4426.5	4435.3	4652.6	4604.9	4511.3	4451.2
55°	4815.1	4838.1	4954.6	5129.5	5120.7	4942.3	5044.7	5126.0	4931.7	4739.1	4755.0
57.5°	4970.5	4981.1	5306.2	5655.9	5864.3	5904.9	5788.4	5514.6	5051.8	4680.9	4657.9
60°	4583.7	4684.4	5076.5	5866.1	6818.2	7288.0	6512.6	5558.7	4770.9	4320.5	4287.0
62.5°	3663.4	3668.7	4251.6	5449.2	7411.7	8642.8	6789.9	5143.6	4022.0	3511.5	3377.3
64°	2608.9	2658.4	3327.8	4823.9	7288.0	9193.9	6756.3	4601.4	3315.5	2591.3	2497.6
65°	1872.3	1941.2	2587.7	4188.0	6998.3	9128.6	6655.7	4135.1	2681.3	1978.3	1882.9
67.5°	688.9	717.1	1015.7	2094.9	5025.3	7779.1	5274.4	2273.3	1178.2	839.0	754.2
70°	319.7	321.5	376.2	692.4	2197.4	5201.9	2517.1	853.2	443.4	351.5	326.8
72.5°	234.9	240.2	263.2	319.7	646.5	2202.7	826.7	349.7	259.7	229.6	224.3
75°	190.8	194.3	201.4	231.4	298.5	590.0	335.6	242.0	206.7	185.5	178.4
77.5°	146.6	146.6	162.5	176.6	197.8	275.6	222.6	192.5	167.8	146.6	141.3
80°	106.0	107.7	127.2	137.8	134.2	181.9	160.7	159.0	137.8	114.8	106.0
82.5°	61.8	67.1	91.9	98.9	95.4	107.7	116.6	123.6	107.7	79.5	72.4
85°	35.3	37.1	53.0	54.8	54.8	51.2	67.1	74.2	72.4	49.5	44.2
87.5°	10.6	10.6	14.1	14.1	15.9	17.7	26.5	31.8	35.3	24.7	23.0
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°	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	1831.7	1805.2	1807.0	1814.1	1791.1	1799.9	1826.4	1807.0	1801.7	1791.1	1785.8
5°	1822.9	1851.1	1840.5	1844.1	1838.8	1814.1	1810.5	1826.4	1835.3	1819.4	1851.1
7.5°	1884.7	1872.3	1858.2	1863.5	1851.1	1872.3	1886.5	1854.7	1870.6	1861.7	1844.1
10°	1920.0	1897.1	1907.7	1904.1	1895.3	1916.5	1902.4	1898.8	1884.7	1865.3	1893.5
12.5°	1932.4	1958.9	1976.6	1946.5	1951.8	1941.2	1932.4	1932.4	1916.5	1911.2	1916.5
15°	1987.2	2010.1	2003.1	2026.0	1996.0	2006.6	2017.2	1990.7	2004.8	1966.0	1996.0
17.5°	2087.8	2068.4	2093.1	2063.1	2073.7	2094.9	2061.3	2061.3	2071.9	2050.7	2024.3
20°	2151.4	2142.6	2133.8	2135.5	2117.9	2137.3	2126.7	2121.4	2105.5	2112.6	2126.7
22.5°	2211.5	2199.1	2202.7	2208.0	2220.3	2211.5	2206.2	2211.5	2172.6	2208.0	2158.5
25°	2285.7	2319.2	2308.6	2331.6	2296.3	2319.2	2317.5	2283.9	2305.1	2291.0	2280.4
27.5°	2409.3	2391.7	2407.6	2379.3	2404.0	2405.8	2384.6	2441.1	2416.4	2412.9	2405.8
30°	2568.3	2555.9	2545.3	2529.4	2548.9	2533.0	2550.6	2555.9	2533.0	2515.3	2481.7
32.5°	2658.4	2691.9	2704.3	2665.4	2667.2	2676.0	2660.1	2644.2	2658.4	2663.7	2658.4
35°	2785.6	2817.3	2824.4	2794.4	2778.5	2822.6	2790.9	2843.8	2797.9	2799.7	2752.0
37.5°	2933.9	2942.8	3002.8	2969.3	2955.1	2933.9	2992.2	2985.2	2995.8	2911.0	2953.4
40°	3101.7	3133.5	3167.1	3082.3	3080.5	3100.0	3096.4	3137.1	3117.6	3105.3	3075.2
42.5°	3285.4	3352.6	3357.9	3301.3	3266.0	3262.5	3280.1	3370.2	3372.0	3290.7	3255.4
45°	3529.2	3603.4	3583.9	3474.4	3435.6	3430.3	3516.8	3555.7	3589.2	3557.5	3527.4
47.5°	3833.0	3882.5	3868.3	3767.7	3642.2	3677.6	3762.4	3884.2	3848.9	3806.5	3771.2
50°	4158.0	4216.3	4186.3	4085.6	3965.5	3965.5	4069.7	4225.1	4214.5	4131.5	4099.7
52.5°	4518.4	4603.1	4672.0	4529.0	4428.3	4444.2	4608.4	4665.0	4638.5	4580.2	4553.7
55°	4786.8	4949.3	5090.7	5097.7	5103.0	5101.3	5143.6	5200.2	5011.2	4917.6	4822.2
57.5°	4721.5	5028.8	5512.8	5841.4	5938.5	5989.7	5975.6	5714.2	5267.3	4959.9	4991.7
60°	4255.2	4756.8	5537.5	6592.1	7298.6	7228.0	6970.1	5936.7	5126.0	4606.7	4541.3
62.5°	3394.9	3999.0	5122.5	6804.0	8750.6	8729.4	7379.9	5422.7	4271.1	3614.0	3573.4
64°	2557.7	3193.6	4569.6	6749.3	9259.3	9280.5	7275.6	4790.4	3342.0	2557.7	2495.9
65°	1957.1	2547.1	4027.3	6636.2	9149.8	9162.1	6986.0	4136.8	2540.0	1815.8	1748.7
67.5°	779.0	1084.5	2185.0	5032.4	7856.8	7823.2	4984.7	2001.3	971.5	632.4	620.0
70°	332.1	413.3	766.6	2384.6	5260.2	5163.1	2146.1	650.0	360.3	302.0	300.3
72.5°	227.9	252.6	328.5	736.6	2186.8	2135.5	611.2	302.0	245.5	226.1	226.1
75°	183.7	201.4	238.5	309.1	579.4	558.2	287.9	222.6	196.1	181.9	180.2
77.5°	143.1	160.7	187.2	213.7	265.0	263.2	192.5	167.8	151.9	141.3	137.8
80°	113.0	130.7	148.4	151.9	173.1	169.6	130.7	132.5	123.6	102.4	100.7
82.5°	77.7	106.0	118.3	107.7	102.4	102.4	93.6	93.6	86.6	63.6	58.3
85°	47.7	70.7	74.2	63.6	47.7	47.7	51.2	49.5	45.9	33.6	31.8
87.5°	24.7	33.6	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)