

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: P478972

Luminaire Tested: **IFLD-S-SA2C-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

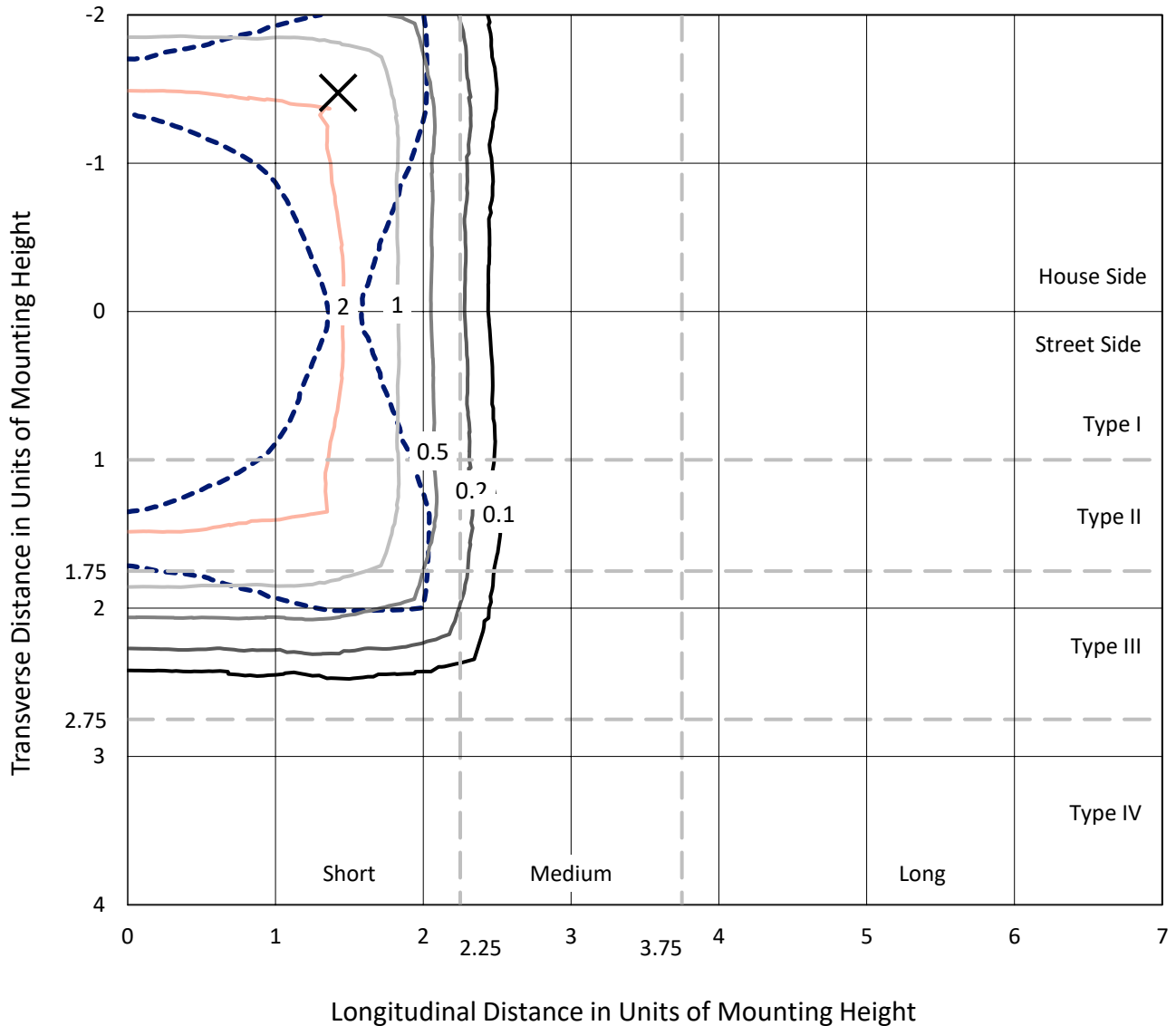
Lumens per Lamp: N/A
Luminaire Lumens: 14500.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108.2
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

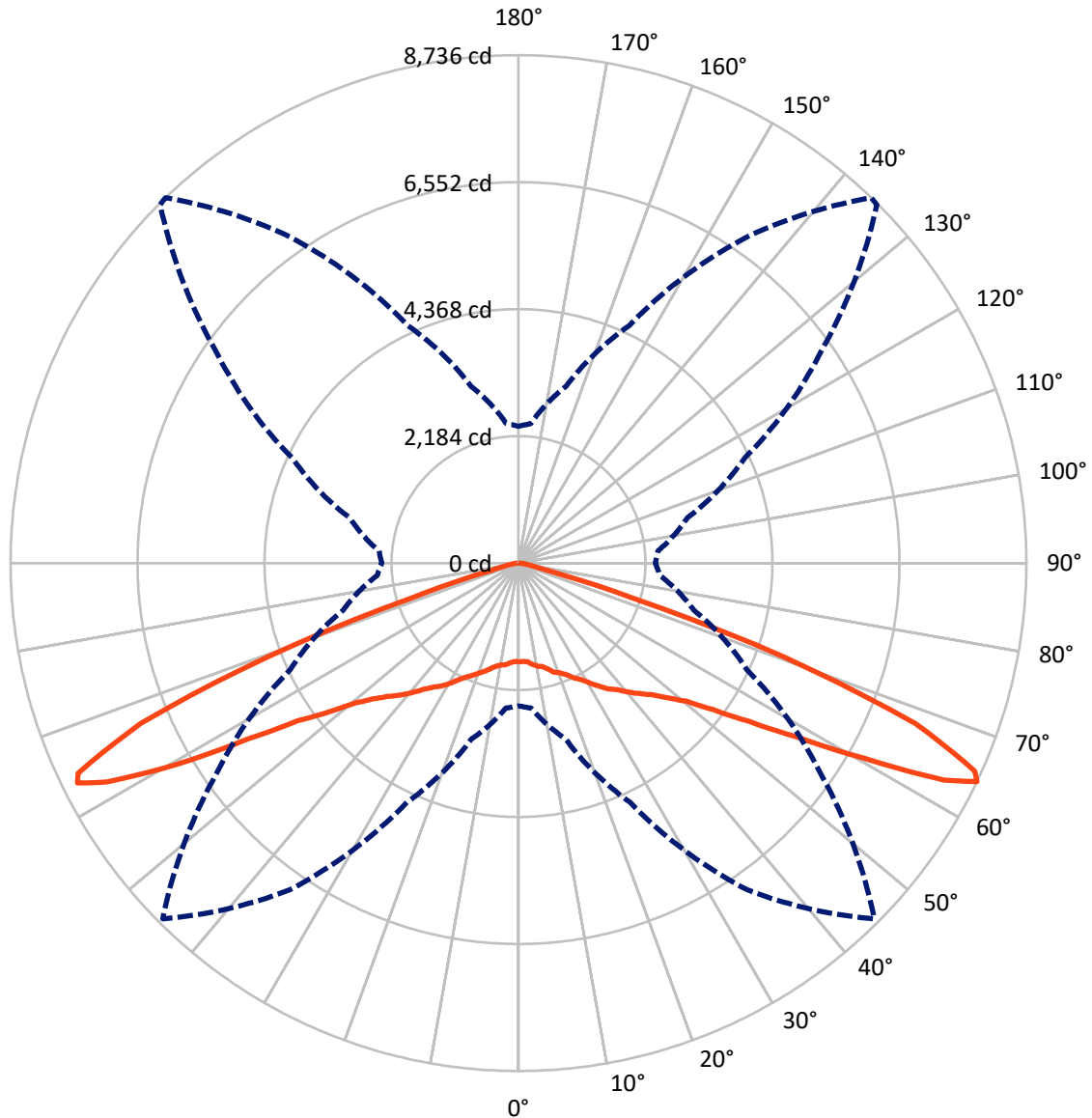
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	7257.3	0.0	7257.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7243.4	0.0	7243.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14500.7	0.0	14500.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.2
10°-20°	537.6	3.7
20°-30°	1010.5	7.0
30°-40°	1666.4	11.5
40°-50°	2606.2	18.0
50°-60°	4210.9	29.0
60°-70°	3791.7	26.1
70°-80°	449.1	3.1
80°-90°	61.5	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°	14500.7	100.0
0°-180°	14500.7	100.0

Coefficient of Utilization



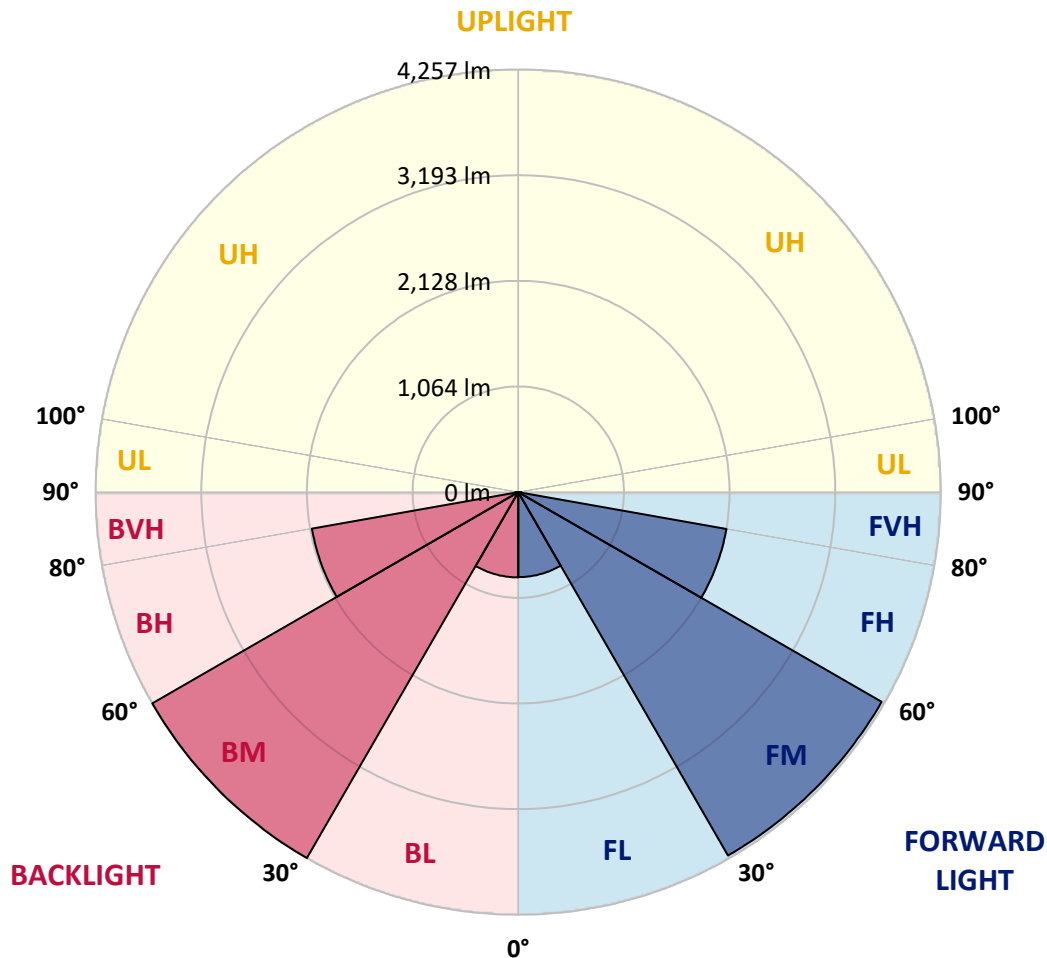
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.8	5.9			
FM (30°-60°)	4226.5	29.1			
FH (60°-80°)	2129.6	14.7			G2/5000
FVH (80°-90°)	31.5	0.2			G1/100
BL (0°-30°)	859.1	5.9	B2/1000		
BM (30°-60°)	4257.0	29.4	B3/5000		
BH (60°-80°)	2111.2	14.6	B3/2500		G2/5000
BVH (80°-90°)	29.9	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°	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7
2.5°	1677.8	1681.1	1711.0	1699.4	1709.4	1691.1	1704.4	1732.7	1699.4	1724.3	1732.7
5°	1696.1	1701.1	1701.1	1712.7	1719.4	1716.0	1724.3	1712.7	1744.3	1731.0	1750.9
7.5°	1762.6	1754.3	1741.0	1750.9	1752.6	1760.9	1769.2	1784.2	1779.2	1767.6	1787.5
10°	1774.2	1767.6	1787.5	1789.2	1780.9	1774.2	1782.5	1782.5	1797.5	1800.8	1800.8
12.5°	1794.2	1800.8	1799.2	1812.5	1814.1	1809.1	1822.4	1847.4	1840.7	1845.7	1834.1
15°	1870.7	1862.4	1860.7	1874.0	1895.6	1864.0	1887.3	1885.6	1879.0	1889.0	1862.4
17.5°	1937.2	1910.6	1922.2	1943.8	1935.5	1942.2	1972.1	1945.5	1952.1	1940.5	1932.2
20°	1995.4	1973.8	1975.4	1983.7	1983.7	2003.7	2015.3	2005.4	1998.7	1997.0	2000.4
22.5°	2060.2	2035.3	2036.9	2071.9	2083.5	2076.9	2068.5	2085.2	2088.5	2075.2	2090.2
25°	2108.4	2135.1	2143.4	2160.0	2135.1	2153.3	2146.7	2178.3	2198.2	2171.6	2189.9
27.5°	2234.8	2223.2	2244.8	2243.1	2263.1	2244.8	2256.4	2266.4	2274.7	2276.4	2268.1
30°	2347.9	2352.9	2331.3	2389.5	2342.9	2372.8	2392.8	2397.8	2407.8	2407.8	2382.8
32.5°	2467.6	2457.6	2492.6	2479.3	2470.9	2494.2	2472.6	2540.8	2500.9	2524.2	2495.9
35°	2602.3	2602.3	2615.6	2652.2	2602.3	2587.3	2627.2	2655.5	2655.5	2613.9	2623.9
37.5°	2753.6	2740.3	2756.9	2803.5	2765.3	2715.4	2788.5	2800.2	2791.9	2780.2	2760.3
40°	2860.0	2856.7	2890.0	2951.5	2896.6	2886.6	2899.9	2931.5	2941.5	2953.2	2926.6
42.5°	3039.6	3054.6	3151.0	3136.1	3091.2	3056.3	3052.9	3171.0	3142.7	3112.8	3097.8
45°	3305.7	3292.4	3342.3	3343.9	3285.7	3209.2	3225.9	3333.9	3382.2	3315.7	3340.6
47.5°	3516.9	3523.5	3558.4	3629.9	3495.2	3415.4	3476.9	3651.5	3636.6	3611.6	3634.9
50°	3799.5	3829.5	3939.2	3914.3	3794.5	3696.4	3831.1	3995.7	4014.0	3922.6	3906.0
52.5°	4190.3	4236.9	4296.7	4316.7	4201.9	4167.0	4175.3	4379.9	4335.0	4246.8	4190.3
55°	4532.8	4554.4	4664.2	4828.8	4820.5	4652.6	4749.0	4825.5	4642.6	4461.3	4476.3
57.5°	4679.2	4689.1	4995.1	5324.3	5520.5	5558.8	5449.0	5191.3	4755.7	4406.5	4384.8
60°	4315.0	4409.8	4778.9	5522.2	6418.5	6860.8	6130.8	5232.9	4491.3	4067.2	4035.7
62.5°	3448.7	3453.7	4002.4	5129.8	6977.2	8136.2	6391.9	4842.1	3786.2	3305.7	3179.3
64°	2456.0	2502.5	3132.7	4541.1	6860.8	8655.0	6360.3	4331.6	3121.1	2439.3	2351.2
65°	1762.6	1827.4	2436.0	3942.5	6588.1	8593.4	6265.5	3892.6	2524.2	1862.4	1772.6
67.5°	648.5	675.1	956.1	1972.1	4730.7	7323.0	4965.2	2140.0	1109.1	789.8	710.0
70°	301.0	302.6	354.2	651.8	2068.5	4897.0	2369.5	803.1	417.4	330.9	307.6
72.5°	221.2	226.1	247.8	301.0	608.6	2073.5	778.2	329.2	244.4	216.2	211.2
75°	179.6	182.9	189.6	217.8	281.0	555.4	315.9	227.8	194.5	174.6	167.9
77.5°	138.0	138.0	153.0	166.3	186.2	259.4	209.5	181.2	158.0	138.0	133.0
80°	99.8	101.4	119.7	129.7	126.4	171.3	151.3	149.7	129.7	108.1	99.8
82.5°	58.2	63.2	86.5	93.1	89.8	101.4	109.7	116.4	101.4	74.8	68.2
85°	33.3	34.9	49.9	51.5	51.5	48.2	63.2	69.8	68.2	46.6	41.6
87.5°	10.0	10.0	13.3	13.3	15.0	16.6	24.9	29.9	33.3	23.3	21.6
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7	1697.7
2.5°	1724.3	1699.4	1701.1	1707.7	1686.1	1694.4	1719.4	1701.1	1696.1	1686.1	1681.1
5°	1716.0	1742.6	1732.7	1736.0	1731.0	1707.7	1704.4	1719.4	1727.7	1712.7	1742.6
7.5°	1774.2	1762.6	1749.3	1754.3	1742.6	1762.6	1775.9	1746.0	1760.9	1752.6	1736.0
10°	1807.5	1785.9	1795.8	1792.5	1784.2	1804.2	1790.9	1787.5	1774.2	1755.9	1782.5
12.5°	1819.1	1844.1	1860.7	1832.4	1837.4	1827.4	1819.1	1819.1	1804.2	1799.2	1804.2
15°	1870.7	1892.3	1885.6	1907.2	1879.0	1889.0	1898.9	1874.0	1887.3	1850.7	1879.0
17.5°	1965.4	1947.2	1970.4	1942.2	1952.1	1972.1	1940.5	1940.5	1950.5	1930.5	1905.6
20°	2025.3	2017.0	2008.7	2010.3	1993.7	2012.0	2002.0	1997.0	1982.1	1988.7	2002.0
22.5°	2081.8	2070.2	2073.5	2078.5	2090.2	2081.8	2076.9	2081.8	2045.3	2078.5	2032.0
25°	2151.7	2183.3	2173.3	2194.9	2161.7	2183.3	2181.6	2150.0	2170.0	2156.7	2146.7
27.5°	2268.1	2251.5	2266.4	2239.8	2263.1	2264.8	2244.8	2298.0	2274.7	2271.4	2264.8
30°	2417.7	2406.1	2396.1	2381.2	2399.4	2384.5	2401.1	2406.1	2384.5	2367.8	2336.3
32.5°	2502.5	2534.1	2545.8	2509.2	2510.9	2519.2	2504.2	2489.2	2502.5	2507.5	2502.5
35°	2622.3	2652.2	2658.8	2630.6	2615.6	2657.2	2627.2	2677.1	2633.9	2635.6	2590.7
37.5°	2761.9	2770.2	2826.8	2795.2	2781.9	2761.9	2816.8	2810.2	2820.1	2740.3	2780.2
40°	2919.9	2949.8	2981.4	2901.6	2899.9	2918.2	2914.9	2953.2	2934.9	2923.2	2895.0
42.5°	3092.8	3156.0	3161.0	3107.8	3074.5	3071.2	3087.8	3172.7	3174.3	3097.8	3064.6
45°	3322.3	3392.1	3373.9	3270.8	3234.2	3229.2	3310.7	3347.2	3378.8	3348.9	3320.6
47.5°	3608.3	3654.9	3641.6	3546.8	3428.7	3462.0	3541.8	3656.5	3623.3	3583.4	3550.1
50°	3914.3	3969.1	3940.9	3846.1	3733.0	3733.0	3831.1	3977.5	3967.5	3889.3	3859.4
52.5°	4253.5	4333.3	4398.1	4263.5	4168.7	4183.6	4338.3	4391.5	4366.6	4311.7	4286.7
55°	4506.2	4659.2	4792.2	4798.9	4803.9	4802.2	4842.1	4895.3	4717.4	4629.3	4539.5
57.5°	4444.7	4734.0	5189.6	5498.9	5590.4	5638.6	5625.3	5379.2	4958.5	4669.2	4699.1
60°	4005.7	4478.0	5212.9	6205.6	6870.8	6804.2	6561.5	5588.7	4825.5	4336.6	4275.1
62.5°	3195.9	3764.6	4822.2	6405.2	8237.6	8217.6	6947.2	5104.8	4020.7	3402.1	3363.9
64°	2407.8	3006.4	4301.7	6353.6	8716.5	8736.4	6849.1	4509.6	3146.0	2407.8	2349.6
65°	1842.4	2397.8	3791.2	6247.2	8613.4	8625.0	6576.4	3894.3	2391.1	1709.4	1646.2
67.5°	733.3	1021.0	2056.9	4737.4	7396.2	7364.6	4692.5	1884.0	914.5	595.3	583.6
70°	312.6	389.1	721.7	2244.8	4951.9	4860.4	2020.3	611.9	339.2	284.3	282.7
72.5°	214.5	237.8	309.3	693.4	2058.6	2010.3	575.3	284.3	231.1	212.8	212.8
75°	172.9	189.6	224.5	291.0	545.4	525.4	271.0	209.5	184.6	171.3	169.6
77.5°	134.7	151.3	176.3	201.2	249.4	247.8	181.2	158.0	143.0	133.0	129.7
80°	106.4	123.0	139.7	143.0	163.0	159.6	123.0	124.7	116.4	96.4	94.8
82.5°	73.2	99.8	111.4	101.4	96.4	96.4	88.1	88.1	81.5	59.9	54.9
85°	44.9	66.5	69.8	59.9	44.9	44.9	48.2	46.6	43.2	31.6	29.9
87.5°	23.3	31.6	28.3	23.3	15.0	15.0	13.3	10.0	10.0	8.3	8.3
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)