

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: P478859

Luminaire Tested: **IFLD-S-SA3B-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478859  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

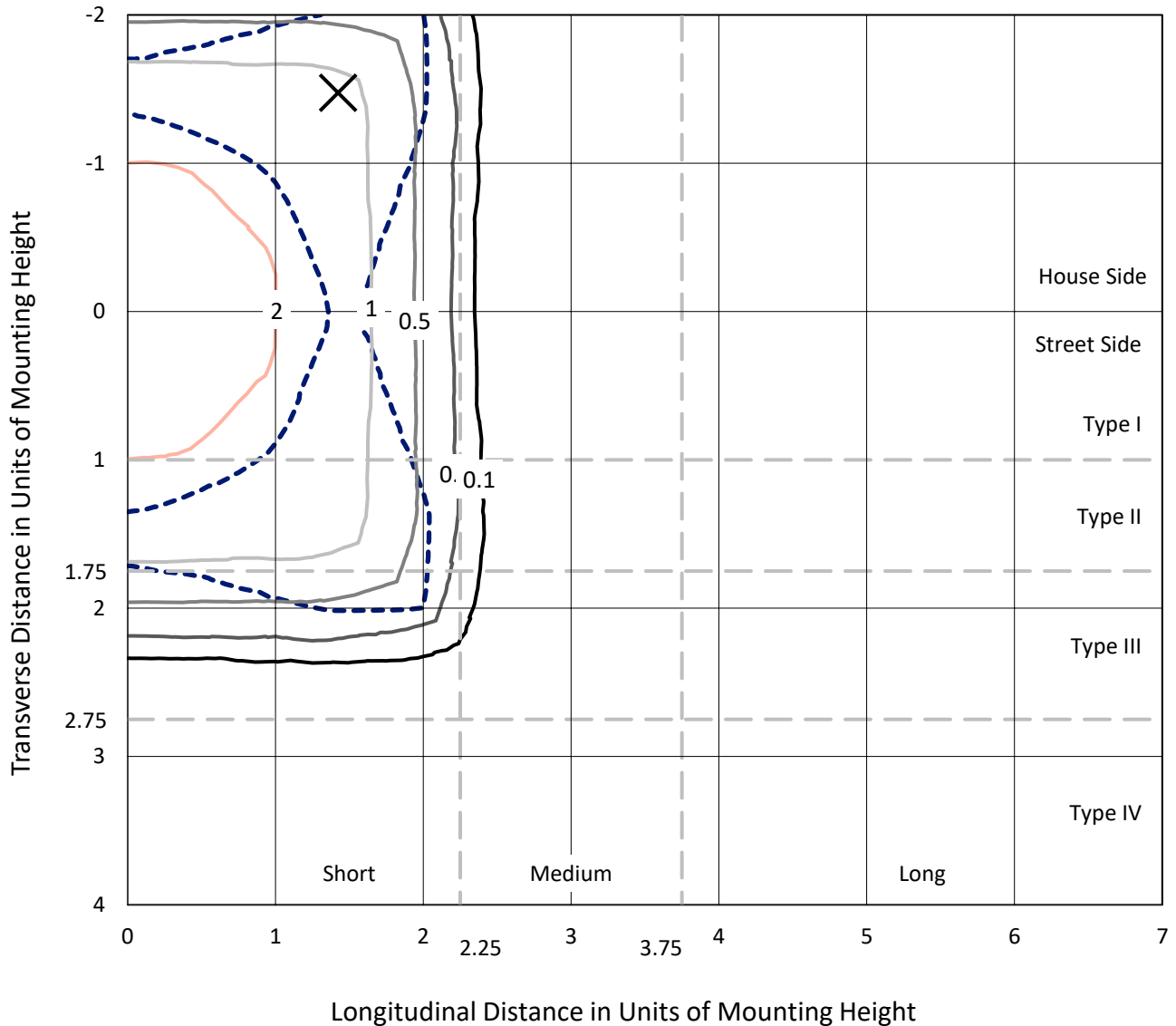
Lumens per Lamp: N/A  
Luminaire Lumens: 15453.9 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4  
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

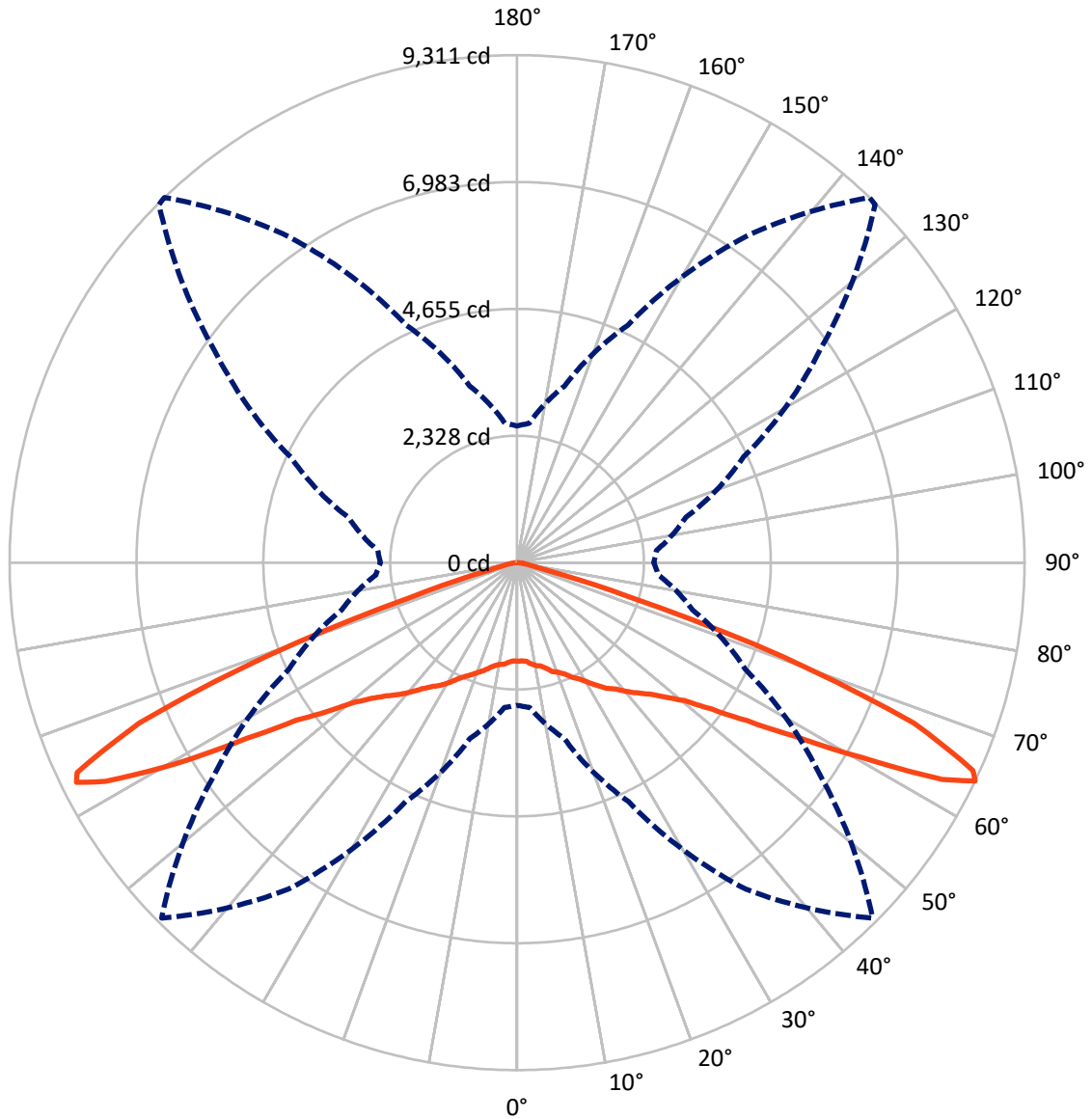
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	7734.3	0.0	7734.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7719.6	0.0	7719.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15453.9	0.0	15453.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.8	1.2
10°-20°	573.0	3.7
20°-30°	1076.9	7.0
30°-40°	1776.0	11.5
40°-50°	2777.5	18.0
50°-60°	4487.7	29.0
60°-70°	4040.9	26.1
70°-80°	478.7	3.1
80°-90°	65.5	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°	15453.9	100.0
0°-180°	15453.9	100.0

**Coefficient of Utilization**



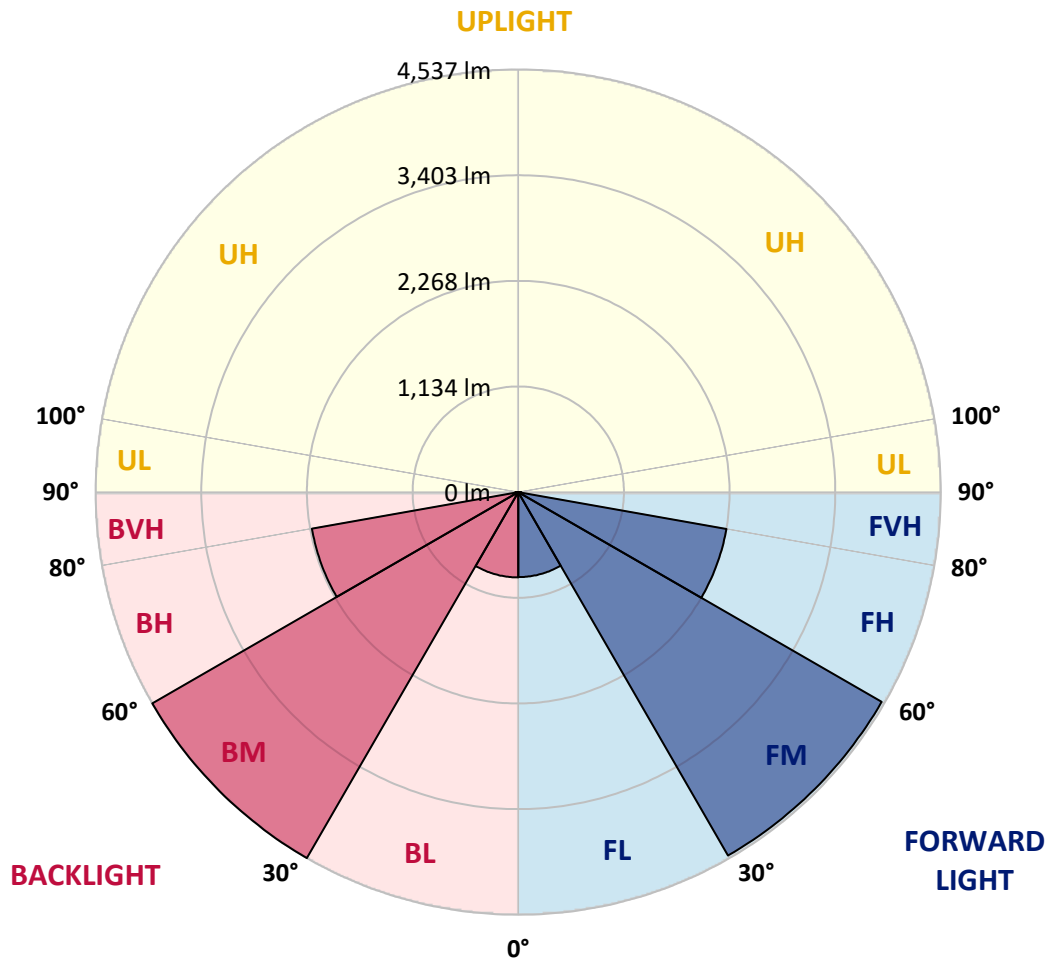
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.1	5.9			
FM (30°-60°)	4504.3	29.1			
FH (60°-80°)	2269.6	14.7			G2/5000
FVH (80°-90°)	33.6	0.2			G1/100
BL (0°-30°)	915.6	5.9	B2/1000		
BM (30°-60°)	4536.8	29.4	B3/5000		
BH (60°-80°)	2250.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	31.9	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°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1788.1	1791.6	1823.5	1811.1	1821.7	1802.3	1816.4	1846.6	1811.1	1837.7	1846.6
5°	1807.6	1812.9	1812.9	1825.3	1832.4	1828.8	1837.7	1825.3	1859.0	1844.8	1866.0
7.5°	1878.5	1869.6	1855.4	1866.0	1867.8	1876.7	1885.5	1901.5	1896.2	1883.8	1905.0
10°	1890.9	1883.8	1905.0	1906.8	1897.9	1890.9	1899.7	1899.7	1915.7	1919.2	1919.2
12.5°	1912.1	1919.2	1917.4	1931.6	1933.4	1928.1	1942.2	1968.8	1961.7	1967.1	1954.7
15°	1993.6	1984.8	1983.0	1997.2	2020.2	1986.6	2011.4	2009.6	2002.5	2013.1	1984.8
17.5°	2064.5	2036.2	2048.6	2071.6	2062.8	2069.8	2101.7	2073.4	2080.5	2068.1	2059.2
20°	2126.5	2103.5	2105.3	2114.1	2114.1	2135.4	2147.8	2137.2	2130.1	2128.3	2131.9
22.5°	2195.7	2169.1	2170.9	2208.1	2220.5	2213.4	2204.5	2222.2	2225.8	2211.6	2227.6
25°	2247.1	2275.4	2284.3	2302.0	2275.4	2294.9	2287.8	2321.5	2342.7	2314.4	2333.9
27.5°	2381.7	2369.3	2392.4	2390.6	2411.9	2392.4	2404.8	2415.4	2424.3	2426.0	2417.2
30°	2502.2	2507.6	2484.5	2546.5	2496.9	2528.8	2550.1	2555.4	2566.0	2566.0	2539.5
32.5°	2629.8	2619.2	2656.4	2642.2	2633.4	2658.2	2635.1	2707.8	2665.3	2690.1	2660.0
35°	2773.4	2773.4	2787.6	2826.5	2773.4	2757.4	2800.0	2830.1	2830.1	2785.8	2796.4
37.5°	2934.6	2920.5	2938.2	2987.8	2947.0	2893.9	2971.9	2984.3	2975.4	2963.0	2941.7
40°	3048.1	3044.5	3080.0	3145.5	3087.0	3076.4	3090.6	3124.3	3134.9	3147.3	3118.9
42.5°	3239.4	3255.4	3358.2	3342.2	3294.4	3257.2	3253.6	3379.4	3349.3	3317.4	3301.5
45°	3523.0	3508.8	3562.0	3563.7	3501.7	3420.2	3437.9	3553.1	3604.5	3533.6	3560.2
47.5°	3748.0	3755.1	3792.3	3868.5	3725.0	3639.9	3705.5	3891.6	3875.6	3849.1	3873.9
50°	4049.3	4081.2	4198.2	4171.6	4044.0	3939.4	4083.0	4258.4	4277.9	4180.4	4162.7
52.5°	4465.8	4515.4	4579.2	4600.4	4478.2	4440.9	4449.8	4667.8	4619.9	4526.0	4465.8
55°	4830.8	4853.9	4970.8	5146.3	5137.4	4958.4	5061.2	5142.7	4947.8	4754.6	4770.6
57.5°	4986.8	4997.4	5323.5	5674.3	5883.5	5924.2	5807.3	5532.6	5068.3	4696.1	4673.1
60°	4598.7	4699.7	5093.1	5885.2	6840.4	7311.8	6533.8	5576.9	4786.5	4334.6	4300.9
62.5°	3675.4	3680.7	4265.5	5467.0	7435.8	8671.0	6812.0	5160.4	4035.1	3523.0	3388.3
64°	2617.4	2667.0	3338.7	4839.7	7311.8	9223.9	6778.4	4616.4	3326.3	2599.7	2505.8
65°	1878.5	1947.6	2596.2	4201.7	7021.2	9158.3	6677.4	4148.5	2690.1	1984.8	1889.1
67.5°	691.1	719.5	1019.0	2101.7	5041.7	7804.4	5291.6	2280.7	1182.0	841.8	756.7
70°	320.8	322.5	377.5	694.7	2204.5	5218.9	2525.3	855.9	444.8	352.7	327.8
72.5°	235.7	241.0	264.0	320.8	648.6	2209.8	829.4	350.9	260.5	230.4	225.1
75°	191.4	194.9	202.0	232.1	299.5	591.9	336.7	242.8	207.3	186.1	179.0
77.5°	147.1	147.1	163.0	177.2	198.5	276.5	223.3	193.2	168.4	147.1	141.8
80°	106.3	108.1	127.6	138.2	134.7	182.5	161.3	159.5	138.2	115.2	106.3
82.5°	62.0	67.3	92.2	99.2	95.7	108.1	117.0	124.0	108.1	79.7	72.7
85°	35.4	37.2	53.2	54.9	54.9	51.4	67.3	74.4	72.7	49.6	44.3
87.5°	10.6	10.6	14.2	14.2	15.9	17.7	26.6	31.9	35.4	24.8	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°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3
2.5°	1837.7	1811.1	1812.9	1820.0	1796.9	1805.8	1832.4	1812.9	1807.6	1796.9	1791.6
5°	1828.8	1857.2	1846.6	1850.1	1844.8	1820.0	1816.4	1832.4	1841.2	1825.3	1857.2
7.5°	1890.9	1878.5	1864.3	1869.6	1857.2	1878.5	1892.6	1860.7	1876.7	1867.8	1850.1
10°	1926.3	1903.3	1913.9	1910.4	1901.5	1922.8	1908.6	1905.0	1890.9	1871.4	1899.7
12.5°	1938.7	1965.3	1983.0	1952.9	1958.2	1947.6	1938.7	1938.7	1922.8	1917.4	1922.8
15°	1993.6	2016.7	2009.6	2032.6	2002.5	2013.1	2023.8	1997.2	2011.4	1972.4	2002.5
17.5°	2094.7	2075.2	2100.0	2069.8	2080.5	2101.7	2068.1	2068.1	2078.7	2057.4	2030.9
20°	2158.4	2149.6	2140.7	2142.5	2124.8	2144.3	2133.6	2128.3	2112.4	2119.5	2133.6
22.5°	2218.7	2206.3	2209.8	2215.2	2227.6	2218.7	2213.4	2218.7	2179.7	2215.2	2165.5
25°	2293.1	2326.8	2316.2	2339.2	2303.8	2326.8	2325.0	2291.4	2312.6	2298.4	2287.8
27.5°	2417.2	2399.5	2415.4	2387.1	2411.9	2413.6	2392.4	2449.1	2424.3	2420.7	2413.6
30°	2576.7	2564.3	2553.6	2537.7	2557.2	2541.2	2558.9	2564.3	2541.2	2523.5	2489.8
32.5°	2667.0	2700.7	2713.1	2674.1	2675.9	2684.8	2668.8	2652.9	2667.0	2672.4	2667.0
35°	2794.6	2826.5	2833.6	2803.5	2787.6	2831.9	2800.0	2853.1	2807.0	2808.8	2761.0
37.5°	2943.5	2952.4	3012.6	2978.9	2964.8	2943.5	3002.0	2994.9	3005.5	2920.5	2963.0
40°	3111.9	3143.7	3177.4	3092.4	3090.6	3110.1	3106.5	3147.3	3127.8	3115.4	3085.3
42.5°	3296.2	3363.5	3368.8	3312.1	3276.7	3273.1	3290.8	3381.2	3383.0	3301.5	3266.0
45°	3540.7	3615.1	3595.6	3485.8	3446.8	3441.5	3528.3	3567.3	3601.0	3569.1	3538.9
47.5°	3845.5	3895.1	3881.0	3779.9	3654.1	3689.6	3774.6	3896.9	3861.5	3818.9	3783.5
50°	4171.6	4230.1	4199.9	4098.9	3978.4	3978.4	4083.0	4238.9	4228.3	4145.0	4113.1
52.5°	4533.1	4618.2	4687.3	4543.7	4442.7	4458.7	4623.5	4680.2	4653.6	4595.1	4568.5
55°	4802.5	4965.5	5107.3	5114.4	5119.7	5117.9	5160.4	5217.1	5027.5	4933.6	4837.9
57.5°	4736.9	5045.2	5530.8	5860.4	5957.9	6009.3	5995.1	5732.8	5284.5	4976.1	5008.0
60°	4269.0	4772.3	5555.6	6613.6	7322.4	7251.5	6992.8	5956.1	5142.7	4621.7	4556.1
62.5°	3406.0	4012.1	5139.2	6826.2	8779.1	8757.8	7403.9	5440.4	4285.0	3625.8	3585.0
64°	2566.0	3204.0	4584.5	6771.3	9289.5	9310.7	7299.4	4806.0	3352.9	2566.0	2504.0
65°	1963.5	2555.4	4040.4	6657.9	9179.6	9192.0	7008.8	4150.3	2548.3	1821.7	1754.4
67.5°	781.5	1088.1	2192.1	5048.8	7882.4	7848.7	5000.9	2007.8	974.7	634.4	622.0
70°	333.2	414.7	769.1	2392.4	5277.4	5179.9	2153.1	652.1	361.5	303.0	301.3
72.5°	228.6	253.4	329.6	739.0	2193.9	2142.5	613.2	303.0	246.3	226.8	226.8
75°	184.3	202.0	239.2	310.1	581.3	560.0	288.9	223.3	196.7	182.5	180.8
77.5°	143.5	161.3	187.8	214.4	265.8	264.0	193.2	168.4	152.4	141.8	138.2
80°	113.4	131.1	148.9	152.4	173.7	170.1	131.1	132.9	124.0	102.8	101.0
82.5°	78.0	106.3	118.7	108.1	102.8	102.8	93.9	93.9	86.8	63.8	58.5
85°	47.8	70.9	74.4	63.8	47.8	47.8	51.4	49.6	46.1	33.7	31.9
87.5°	24.8	33.7	30.1	24.8	15.9	15.9	14.2	10.6	10.6	8.9	8.9
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)