

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: P478933

Luminaire Tested: **IFLD-S-SA2C-740-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478933  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

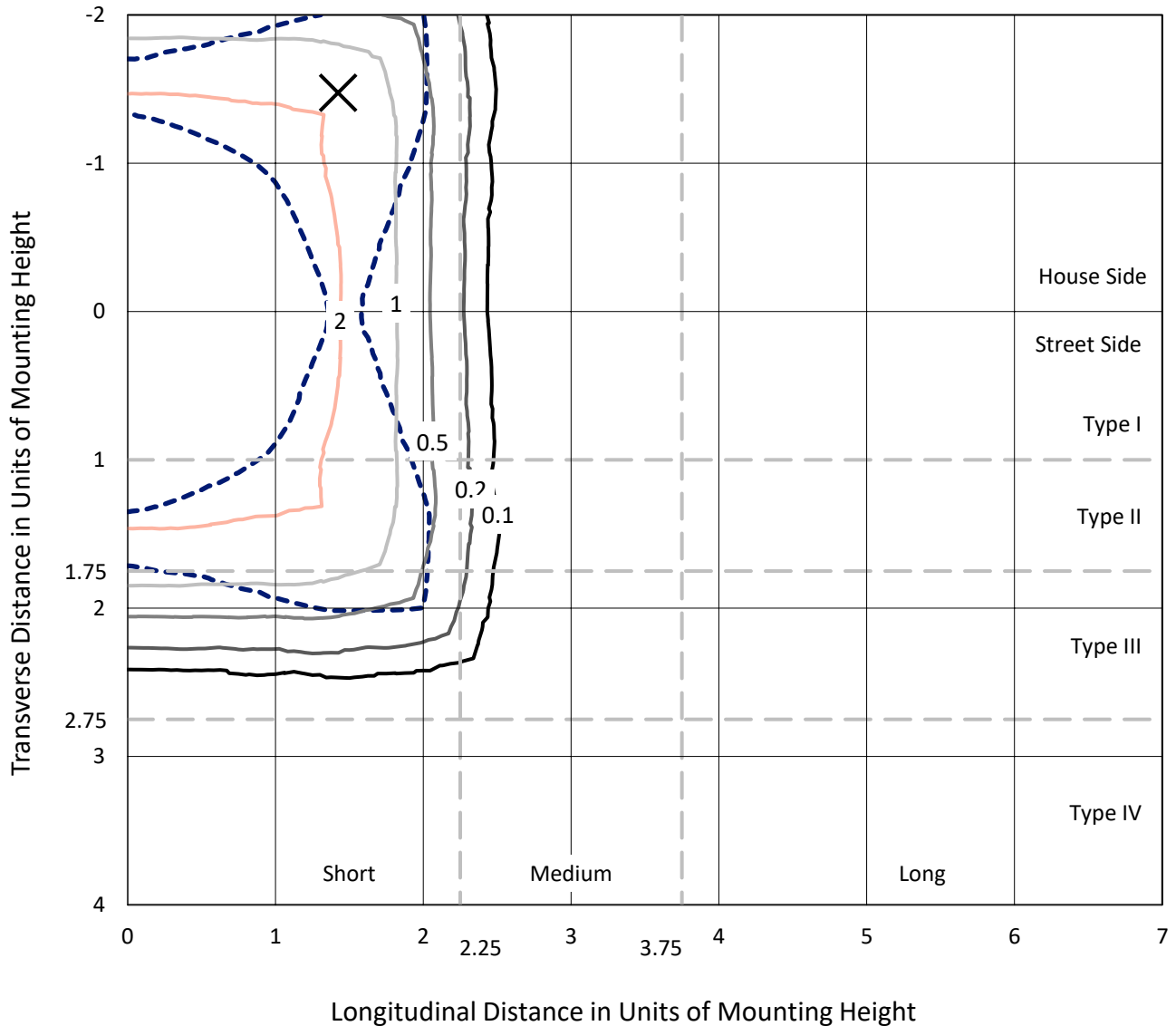
Lumens per Lamp: N/A  
Luminaire Lumens: 14176.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

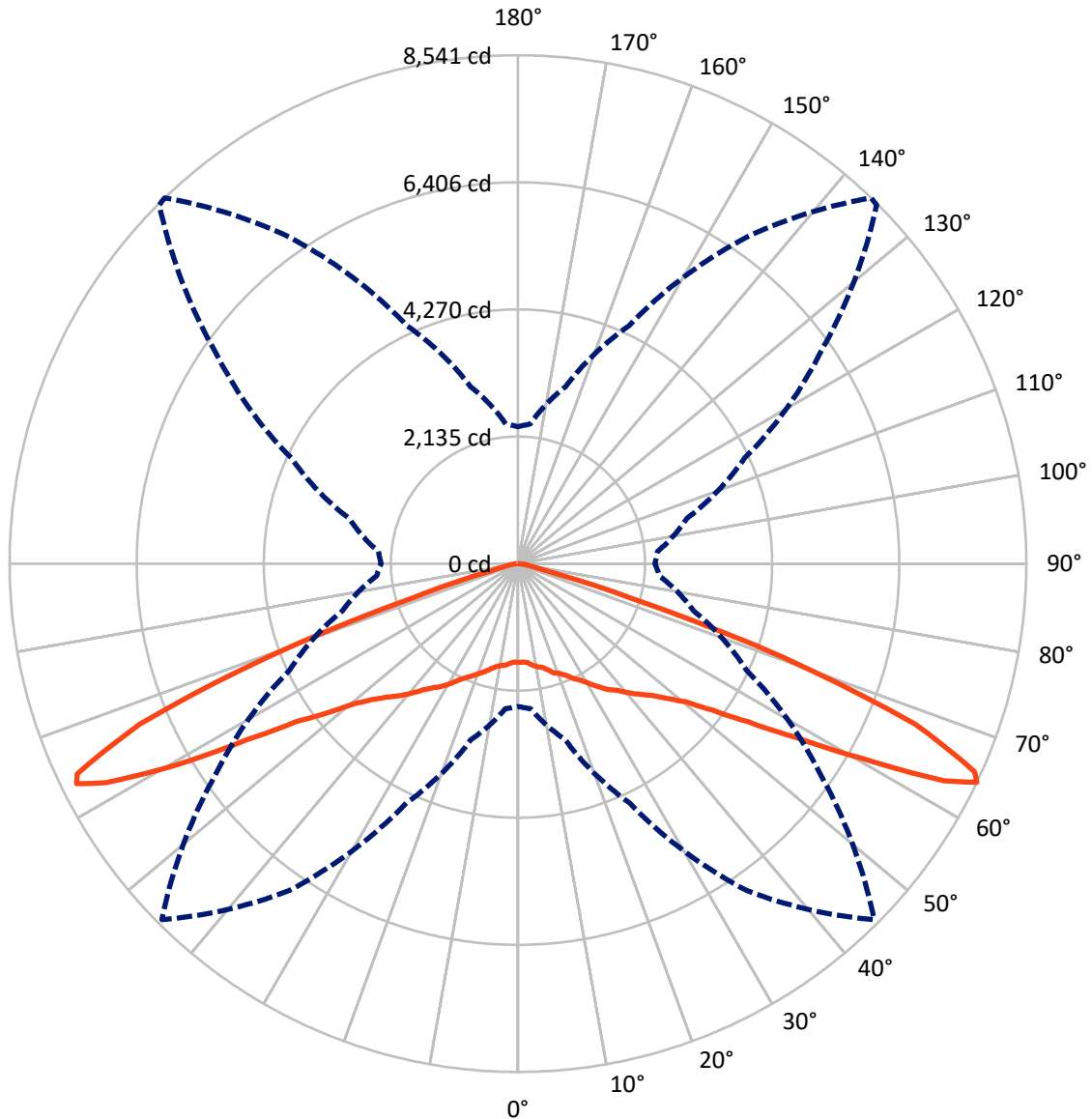
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	7094.8	0.0	7094.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7081.3	0.0	7081.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14176.1	0.0	14176.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.1	1.2
10°-20°	525.6	3.7
20°-30°	987.8	7.0
30°-40°	1629.1	11.5
40°-50°	2547.8	18.0
50°-60°	4116.7	29.0
60°-70°	3706.8	26.1
70°-80°	439.1	3.1
80°-90°	60.1	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°	14176.1	100.0
0°-180°	14176.1	100.0

**Coefficient of Utilization**



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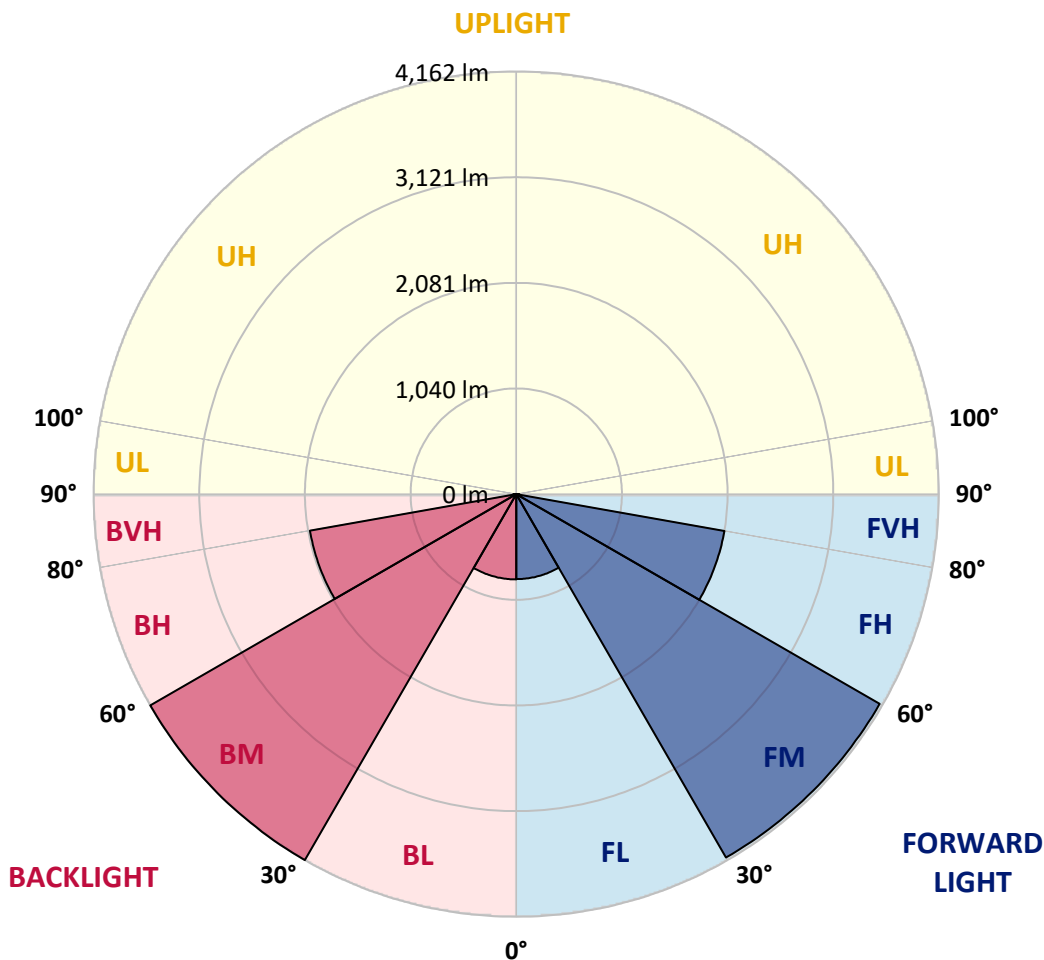
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.6	5.9			
FM (30°-60°)	4131.9	29.1			
FH (60°-80°)	2081.9	14.7			G2/5000
FVH (80°-90°)	30.8	0.2			G1/100
BL (0°-30°)	839.9	5.9	B2/1000		
BM (30°-60°)	4161.7	29.4	B3/5000		
BH (60°-80°)	2064.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	29.3	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°	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1640.2	1643.5	1672.7	1661.4	1671.1	1653.2	1666.2	1693.9	1661.4	1685.7	1693.9
5°	1658.1	1663.0	1663.0	1674.4	1680.9	1677.6	1685.7	1674.4	1705.2	1692.2	1711.7
7.5°	1723.1	1715.0	1702.0	1711.7	1713.4	1721.5	1729.6	1744.3	1739.4	1728.0	1747.5
10°	1734.5	1728.0	1747.5	1749.1	1741.0	1734.5	1742.6	1742.6	1757.3	1760.5	1760.5
12.5°	1754.0	1760.5	1758.9	1771.9	1773.5	1768.6	1781.6	1806.0	1799.5	1804.4	1793.0
15°	1828.8	1820.7	1819.0	1832.0	1853.2	1822.3	1845.0	1843.4	1836.9	1846.7	1820.7
17.5°	1893.8	1867.8	1879.2	1900.3	1892.2	1898.7	1927.9	1901.9	1908.4	1897.1	1888.9
20°	1950.7	1929.6	1931.2	1939.3	1939.3	1958.8	1970.2	1960.5	1954.0	1952.3	1955.6
22.5°	2014.1	1989.7	1991.3	2025.5	2036.9	2030.4	2022.2	2038.5	2041.7	2028.7	2043.4
25°	2061.2	2087.3	2095.4	2111.6	2087.3	2105.1	2098.6	2129.5	2149.0	2123.0	2140.9
27.5°	2184.8	2173.4	2194.5	2192.9	2212.4	2194.5	2205.9	2215.7	2223.8	2225.4	2217.3
30°	2295.3	2300.2	2279.1	2336.0	2290.5	2319.7	2339.2	2344.1	2353.9	2353.9	2329.5
32.5°	2412.4	2402.6	2436.8	2423.8	2415.6	2438.4	2417.3	2483.9	2444.9	2467.6	2440.0
35°	2544.0	2544.0	2557.1	2592.8	2544.0	2529.4	2568.4	2596.1	2596.1	2555.4	2565.2
37.5°	2692.0	2679.0	2695.2	2740.7	2703.4	2654.6	2726.1	2737.5	2729.4	2718.0	2698.5
40°	2796.0	2792.8	2825.3	2885.4	2831.8	2822.0	2835.0	2865.9	2875.7	2887.0	2861.0
42.5°	2971.6	2986.2	3080.5	3065.9	3022.0	2987.8	2984.6	3100.0	3072.4	3043.1	3028.5
45°	3231.7	3218.7	3267.4	3269.1	3212.2	3137.4	3153.6	3259.3	3306.4	3241.4	3265.8
47.5°	3438.1	3444.6	3478.8	3548.7	3417.0	3339.0	3399.1	3569.8	3555.2	3530.8	3553.5
50°	3714.5	3743.7	3851.0	3826.6	3709.6	3613.7	3745.4	3906.3	3924.2	3834.8	3818.5
52.5°	4096.5	4142.0	4200.5	4220.0	4107.9	4073.7	4081.9	4281.8	4237.9	4151.8	4096.5
55°	4431.4	4452.5	4559.8	4720.7	4712.6	4548.4	4642.7	4717.5	4538.6	4361.5	4376.1
57.5°	4574.4	4584.2	4883.3	5205.1	5397.0	5434.3	5327.1	5075.1	4649.2	4307.8	4286.7
60°	4218.4	4311.1	4671.9	5398.6	6274.8	6707.2	5993.5	5115.7	4390.7	3976.2	3945.3
62.5°	3371.5	3376.3	3912.8	5014.9	6821.0	7954.0	6248.8	4733.7	3701.5	3231.7	3108.1
64°	2401.0	2446.5	3062.6	4439.5	6707.2	8461.2	6217.9	4234.7	3051.2	2384.7	2298.6
65°	1723.1	1786.5	2381.5	3854.3	6440.6	8401.0	6125.2	3805.5	2467.6	1820.7	1732.9
67.5°	634.0	660.0	934.7	1927.9	4624.8	7159.1	4854.0	2092.1	1084.3	772.2	694.1
70°	294.2	295.9	346.3	637.2	2022.2	4787.4	2316.5	785.2	408.0	323.5	300.7
72.5°	216.2	221.1	242.2	294.2	595.0	2027.1	760.8	321.9	239.0	211.3	206.4
75°	175.6	178.8	185.3	213.0	274.7	542.9	308.9	222.7	190.2	170.7	164.2
77.5°	134.9	134.9	149.6	162.6	182.1	253.6	204.8	177.2	154.4	134.9	130.0
80°	97.5	99.2	117.0	126.8	123.5	167.4	147.9	146.3	126.8	105.7	97.5
82.5°	56.9	61.8	84.5	91.0	87.8	99.2	107.3	113.8	99.2	73.2	66.6
85°	32.5	34.1	48.8	50.4	50.4	47.1	61.8	68.3	66.6	45.5	40.6
87.5°	9.8	9.8	13.0	13.0	14.6	16.3	24.4	29.3	32.5	22.8	21.1
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°	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7	1659.7
2.5°	1685.7	1661.4	1663.0	1669.5	1648.3	1656.5	1680.9	1663.0	1658.1	1648.3	1643.5
5°	1677.6	1703.6	1693.9	1697.1	1692.2	1669.5	1666.2	1680.9	1689.0	1674.4	1703.6
7.5°	1734.5	1723.1	1710.1	1715.0	1703.6	1723.1	1736.1	1706.9	1721.5	1713.4	1697.1
10°	1767.0	1745.9	1755.6	1752.4	1744.3	1763.8	1750.8	1747.5	1734.5	1716.6	1742.6
12.5°	1778.4	1802.8	1819.0	1791.4	1796.3	1786.5	1778.4	1778.4	1763.8	1758.9	1763.8
15°	1828.8	1849.9	1843.4	1864.6	1836.9	1846.7	1856.4	1832.0	1845.0	1809.3	1836.9
17.5°	1921.4	1903.6	1926.3	1898.7	1908.4	1927.9	1897.1	1897.1	1906.8	1887.3	1862.9
20°	1980.0	1971.8	1963.7	1965.3	1949.1	1967.0	1957.2	1952.3	1937.7	1944.2	1957.2
22.5°	2035.2	2023.9	2027.1	2032.0	2043.4	2035.2	2030.4	2035.2	1999.5	2032.0	1986.5
25°	2103.5	2134.4	2124.6	2145.8	2113.3	2134.4	2132.8	2101.9	2121.4	2108.4	2098.6
27.5°	2217.3	2201.0	2215.7	2189.7	2212.4	2214.1	2194.5	2246.6	2223.8	2220.6	2214.1
30°	2363.6	2352.2	2342.5	2327.8	2345.7	2331.1	2347.4	2352.2	2331.1	2314.8	2284.0
32.5°	2446.5	2477.4	2488.8	2453.0	2454.6	2462.8	2448.1	2433.5	2446.5	2451.4	2446.5
35°	2563.6	2592.8	2599.3	2571.7	2557.1	2597.7	2568.4	2617.2	2574.9	2576.6	2532.7
37.5°	2700.1	2708.2	2763.5	2732.6	2719.6	2700.1	2753.7	2747.2	2757.0	2679.0	2718.0
40°	2854.5	2883.8	2914.7	2836.7	2835.0	2852.9	2849.7	2887.0	2869.2	2857.8	2830.1
42.5°	3023.6	3085.4	3090.2	3038.2	3005.7	3002.5	3018.7	3101.6	3103.2	3028.5	2996.0
45°	3247.9	3316.2	3298.3	3197.5	3161.8	3156.9	3236.5	3272.3	3303.2	3273.9	3246.3
47.5°	3527.5	3573.0	3560.0	3467.4	3352.0	3384.5	3462.5	3574.7	3542.2	3503.1	3470.6
50°	3826.6	3880.3	3852.6	3760.0	3649.4	3649.4	3745.4	3888.4	3878.7	3802.3	3773.0
52.5°	4158.3	4236.3	4299.7	4168.0	4075.4	4090.0	4241.2	4293.2	4268.8	4215.2	4190.8
55°	4405.3	4554.9	4684.9	4691.4	4696.3	4694.7	4733.7	4785.7	4611.8	4525.6	4437.9
57.5°	4345.2	4628.1	5073.5	5375.8	5465.2	5512.4	5499.4	5258.8	4847.5	4564.7	4593.9
60°	3916.0	4377.7	5096.2	6066.7	6716.9	6651.9	6414.6	5463.6	4717.5	4239.5	4179.4
62.5°	3124.4	3680.3	4714.2	6261.8	8053.2	8033.7	6791.7	4990.6	3930.7	3326.0	3288.6
64°	2353.9	2939.1	4205.4	6211.4	8521.3	8540.8	6695.8	4408.6	3075.6	2353.9	2297.0
65°	1801.2	2344.1	3706.3	6107.3	8420.5	8431.9	6429.2	3807.1	2337.6	1671.1	1609.3
67.5°	716.9	998.1	2010.9	4631.3	7230.6	7199.7	4587.4	1841.8	894.1	582.0	570.6
70°	305.6	380.4	705.5	2194.5	4841.0	4751.6	1975.1	598.2	331.6	278.0	276.4
72.5°	209.7	232.5	302.4	677.9	2012.5	1965.3	562.5	278.0	226.0	208.1	208.1
75°	169.1	185.3	219.5	284.5	533.2	513.7	265.0	204.8	180.4	167.4	165.8
77.5°	131.7	147.9	172.3	196.7	243.8	242.2	177.2	154.4	139.8	130.0	126.8
80°	104.0	120.3	136.5	139.8	159.3	156.1	120.3	121.9	113.8	94.3	92.7
82.5°	71.5	97.5	108.9	99.2	94.3	94.3	86.2	86.2	79.7	58.5	53.6
85°	43.9	65.0	68.3	58.5	43.9	43.9	47.1	45.5	42.3	30.9	29.3
87.5°	22.8	30.9	27.6	22.8	14.6	14.6	13.0	9.8	9.8	8.1	8.1
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)