

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: P478856

Luminaire Tested: **IFLD-S-SA2D-730-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478856  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

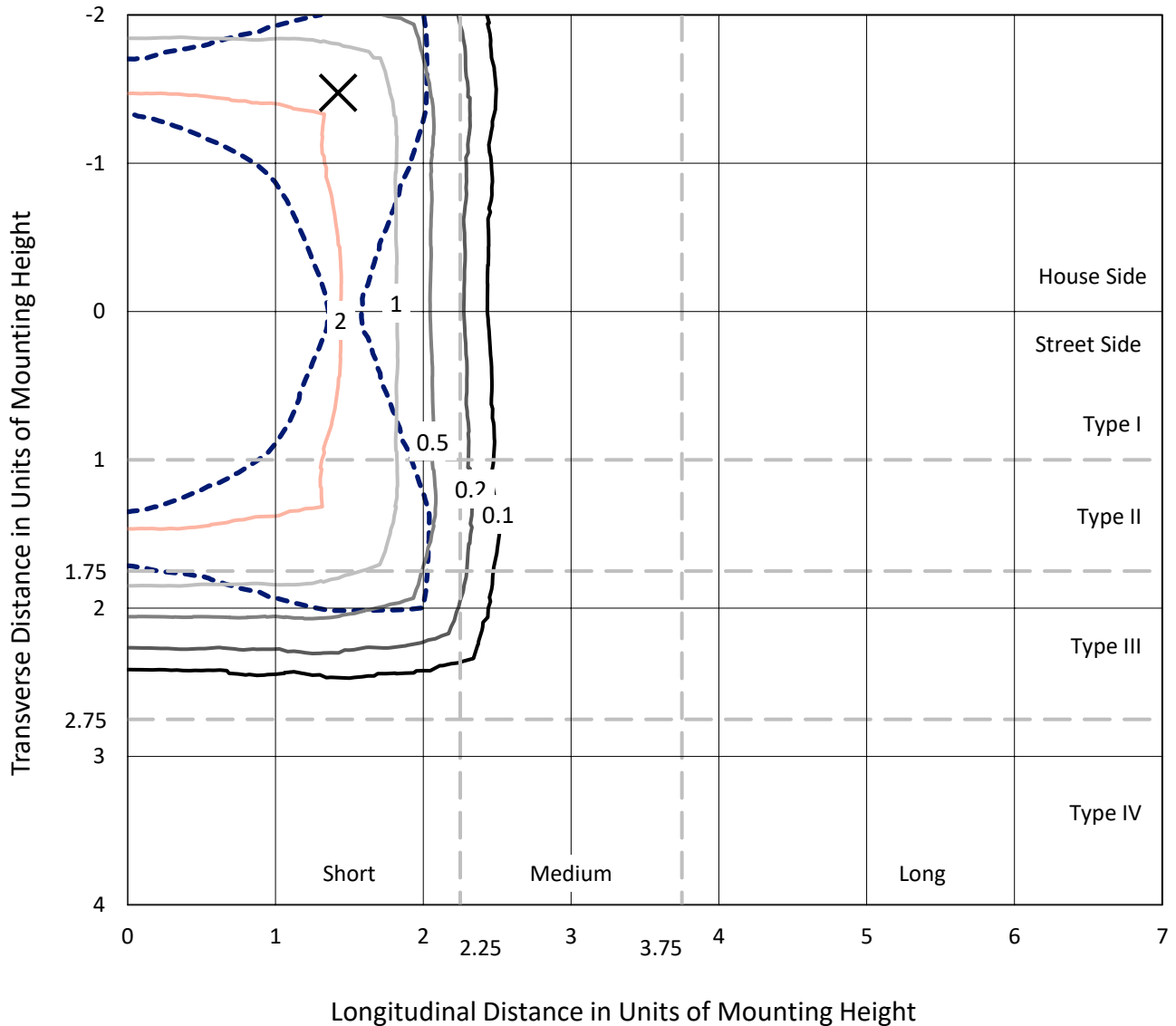
Lumens per Lamp: N/A  
Luminaire Lumens: 14203.9 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 123.9  
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

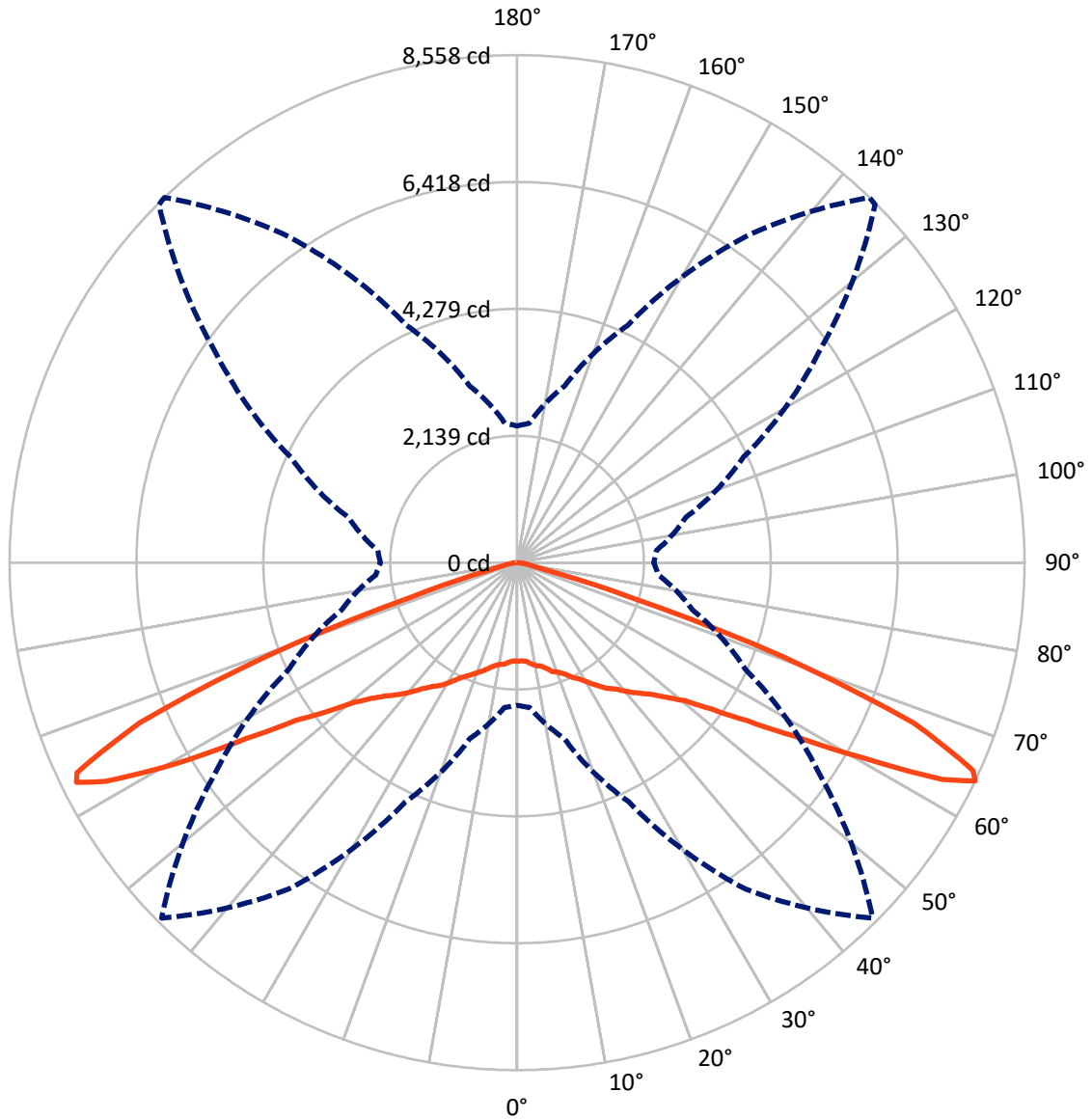
× Max cd  
 - - - 1/2 Max cd



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	7108.7	0.0	7108.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7095.2	0.0	7095.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14203.9	0.0	14203.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.4	1.2
10°-20°	526.6	3.7
20°-30°	989.8	7.0
30°-40°	1632.3	11.5
40°-50°	2552.8	18.0
50°-60°	4124.7	29.0
60°-70°	3714.1	26.1
70°-80°	439.9	3.1
80°-90°	60.2	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°	14203.9	100.0
0°-180°	14203.9	100.0

**Coefficient of Utilization**



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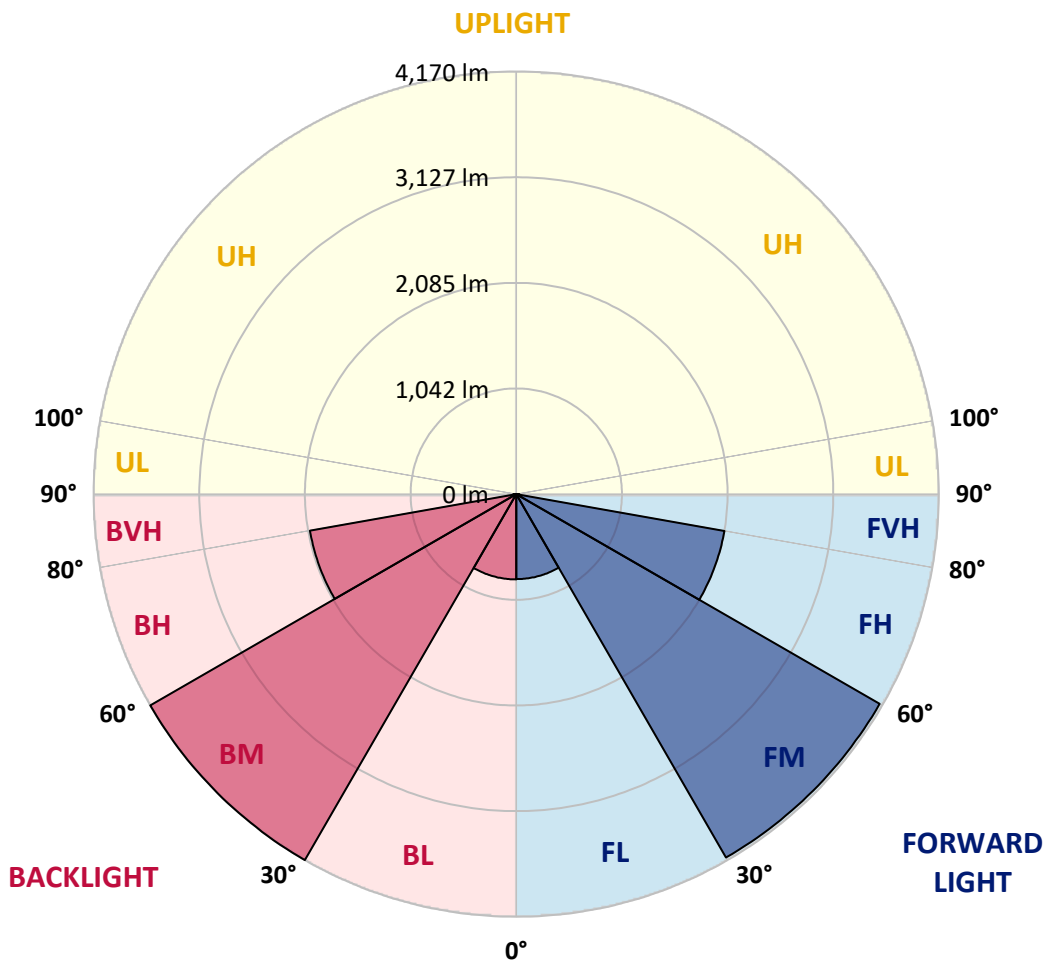
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.3	5.9			
FM (30°-60°)	4140.0	29.1			
FH (60°-80°)	2086.0	14.7			G2/5000
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	841.5	5.9	B2/1000		
BM (30°-60°)	4169.9	29.4	B3/5000		
BH (60°-80°)	2068.0	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°	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0
2.5°	1643.4	1646.7	1676.0	1664.6	1674.4	1656.5	1669.5	1697.2	1664.6	1689.1	1697.2
5°	1661.4	1666.2	1666.2	1677.6	1684.2	1680.9	1689.1	1677.6	1708.6	1695.6	1715.1
7.5°	1726.5	1718.4	1705.3	1715.1	1716.7	1724.9	1733.0	1747.7	1742.8	1731.4	1750.9
10°	1737.9	1731.4	1750.9	1752.6	1744.4	1737.9	1746.1	1746.1	1760.7	1764.0	1764.0
12.5°	1757.5	1764.0	1762.3	1775.4	1777.0	1772.1	1785.1	1809.6	1803.1	1808.0	1796.6
15°	1832.4	1824.2	1822.6	1835.6	1856.8	1825.9	1848.7	1847.0	1840.5	1850.3	1824.2
17.5°	1897.5	1871.5	1882.9	1904.1	1895.9	1902.4	1931.7	1905.7	1912.2	1900.8	1892.6
20°	1954.5	1933.4	1935.0	1943.1	1943.1	1962.7	1974.1	1964.3	1957.8	1956.2	1959.4
22.5°	2018.1	1993.6	1995.3	2029.5	2040.9	2034.4	2026.2	2042.5	2045.8	2032.7	2047.4
25°	2065.3	2091.4	2099.5	2115.8	2091.4	2109.3	2102.8	2133.7	2153.3	2127.2	2145.1
27.5°	2189.1	2177.7	2198.9	2197.2	2216.8	2198.9	2210.3	2220.0	2228.2	2229.8	2221.7
30°	2299.8	2304.7	2283.6	2340.6	2295.0	2324.3	2343.8	2348.7	2358.5	2358.5	2334.0
32.5°	2417.1	2407.3	2441.5	2428.5	2420.4	2443.2	2422.0	2488.8	2449.7	2472.5	2444.8
35°	2549.0	2549.0	2562.1	2597.9	2549.0	2534.4	2573.5	2601.2	2601.2	2560.5	2570.2
37.5°	2697.3	2684.2	2700.5	2746.1	2708.7	2659.8	2731.5	2742.9	2734.7	2723.3	2703.8
40°	2801.5	2798.3	2830.8	2891.1	2837.3	2827.6	2840.6	2871.5	2881.3	2892.7	2866.7
42.5°	2977.4	2992.1	3086.5	3071.9	3027.9	2993.7	2990.4	3106.1	3078.4	3049.1	3034.4
45°	3238.0	3225.0	3273.9	3275.5	3218.5	3143.6	3159.8	3265.7	3312.9	3247.8	3272.2
47.5°	3444.9	3451.4	3485.6	3555.6	3423.7	3345.5	3405.8	3576.8	3562.2	3537.7	3560.5
50°	3721.8	3751.1	3858.6	3834.2	3716.9	3620.8	3752.7	3914.0	3931.9	3842.3	3826.0
52.5°	4104.5	4150.1	4208.8	4228.3	4115.9	4081.7	4089.9	4290.2	4246.2	4159.9	4104.5
55°	4440.1	4461.2	4568.7	4730.0	4721.8	4557.3	4651.8	4726.7	4547.6	4370.0	4384.7
57.5°	4583.4	4593.2	4892.9	5215.4	5407.6	5445.0	5337.5	5085.1	4658.3	4316.3	4295.1
60°	4226.7	4319.5	4681.1	5409.2	6287.1	6720.4	6005.3	5125.8	4399.3	3984.0	3953.1
62.5°	3378.1	3383.0	3920.5	5024.8	6834.4	7969.6	6261.1	4743.0	3708.7	3238.0	3114.2
64°	2405.7	2451.3	3068.6	4448.2	6720.4	8477.8	6230.1	4243.0	3057.2	2389.4	2303.1
65°	1726.5	1790.0	2386.2	3861.8	6453.2	8417.6	6137.3	3813.0	2472.5	1824.2	1736.3
67.5°	635.2	661.3	936.6	1931.7	4633.9	7173.2	4863.6	2096.2	1086.4	773.7	695.5
70°	294.8	296.4	346.9	638.5	2026.2	4796.8	2321.0	786.7	408.8	324.1	301.3
72.5°	216.6	221.5	242.7	294.8	596.1	2031.1	762.3	322.5	239.4	211.7	206.9
75°	175.9	179.2	185.7	213.4	275.3	544.0	309.5	223.1	190.6	171.0	164.5
77.5°	135.2	135.2	149.8	162.9	182.4	254.1	205.2	177.5	154.7	135.2	130.3
80°	97.7	99.4	117.3	127.0	123.8	167.8	148.2	146.6	127.0	105.9	97.7
82.5°	57.0	61.9	84.7	91.2	88.0	99.4	107.5	114.0	99.4	73.3	66.8
85°	32.6	34.2	48.9	50.5	50.5	47.2	61.9	68.4	66.8	45.6	40.7
87.5°	9.8	9.8	13.0	13.0	14.7	16.3	24.4	29.3	32.6	22.8	21.2
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°	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0
2.5°	1689.1	1664.6	1666.2	1672.8	1651.6	1659.7	1684.2	1666.2	1661.4	1651.6	1646.7
5°	1680.9	1707.0	1697.2	1700.5	1695.6	1672.8	1669.5	1684.2	1692.3	1677.6	1707.0
7.5°	1737.9	1726.5	1713.5	1718.4	1707.0	1726.5	1739.5	1710.2	1724.9	1716.7	1700.5
10°	1770.5	1749.3	1759.1	1755.8	1747.7	1767.2	1754.2	1750.9	1737.9	1720.0	1746.1
12.5°	1781.9	1806.3	1822.6	1794.9	1799.8	1790.0	1781.9	1781.9	1767.2	1762.3	1767.2
15°	1832.4	1853.6	1847.0	1868.2	1840.5	1850.3	1860.1	1835.6	1848.7	1812.8	1840.5
17.5°	1925.2	1907.3	1930.1	1902.4	1912.2	1931.7	1900.8	1900.8	1910.6	1891.0	1866.6
20°	1983.9	1975.7	1967.6	1969.2	1952.9	1970.8	1961.1	1956.2	1941.5	1948.0	1961.1
22.5°	2039.2	2027.8	2031.1	2036.0	2047.4	2039.2	2034.4	2039.2	2003.4	2036.0	1990.4
25°	2107.6	2138.6	2128.8	2150.0	2117.4	2138.6	2137.0	2106.0	2125.6	2112.5	2102.8
27.5°	2221.7	2205.4	2220.0	2194.0	2216.8	2218.4	2198.9	2251.0	2228.2	2224.9	2218.4
30°	2368.3	2356.9	2347.1	2332.4	2350.3	2335.7	2352.0	2356.9	2335.7	2319.4	2288.4
32.5°	2451.3	2482.3	2493.7	2457.8	2459.5	2467.6	2453.0	2438.3	2451.3	2456.2	2451.3
35°	2568.6	2597.9	2604.4	2576.7	2562.1	2602.8	2573.5	2622.3	2580.0	2581.6	2537.6
37.5°	2705.4	2713.6	2768.9	2738.0	2725.0	2705.4	2759.2	2752.6	2762.4	2684.2	2723.3
40°	2860.1	2889.5	2920.4	2842.2	2840.6	2858.5	2855.3	2892.7	2874.8	2863.4	2835.7
42.5°	3029.5	3091.4	3096.3	3044.2	3011.6	3008.4	3024.7	3107.7	3109.4	3034.4	3001.9
45°	3254.3	3322.7	3304.8	3203.8	3168.0	3163.1	3242.9	3278.7	3309.7	3280.4	3252.7
47.5°	3534.5	3580.1	3567.0	3474.2	3358.6	3391.1	3469.3	3581.7	3549.1	3510.0	3477.5
50°	3834.2	3887.9	3860.2	3767.4	3656.6	3656.6	3752.7	3896.1	3886.3	3809.7	3780.4
52.5°	4166.4	4244.6	4308.1	4176.2	4083.4	4098.0	4249.5	4301.6	4277.2	4223.4	4199.0
55°	4414.0	4563.9	4694.2	4700.7	4705.6	4703.9	4743.0	4795.1	4620.9	4534.5	4446.6
57.5°	4353.7	4637.2	5083.4	5386.4	5476.0	5523.2	5510.2	5269.1	4857.0	4573.6	4602.9
60°	3923.7	4386.3	5106.2	6078.6	6730.1	6665.0	6427.2	5474.3	4726.7	4247.9	4187.6
62.5°	3130.5	3687.6	4723.5	6274.1	8069.0	8049.5	6805.1	5000.4	3938.4	3332.5	3295.0
64°	2358.5	2944.8	4213.7	6223.6	8538.1	8557.6	6709.0	4417.3	3081.7	2358.5	2301.5
65°	1804.7	2348.7	3713.6	6119.3	8437.1	8448.5	6441.8	3814.6	2342.2	1674.4	1612.5
67.5°	718.3	1000.1	2014.8	4640.4	7244.8	7213.9	4596.4	1845.4	895.8	583.1	571.7
70°	306.2	381.1	706.9	2198.9	4850.5	4760.9	1979.0	599.4	332.3	278.5	276.9
72.5°	210.1	232.9	303.0	679.2	2016.4	1969.2	563.6	278.5	226.4	208.5	208.5
75°	169.4	185.7	219.9	285.0	534.2	514.7	265.5	205.2	180.8	167.8	166.1
77.5°	131.9	148.2	172.7	197.1	244.3	242.7	177.5	154.7	140.1	130.3	127.0
80°	104.2	120.5	136.8	140.1	159.6	156.4	120.5	122.2	114.0	94.5	92.8
82.5°	71.7	97.7	109.1	99.4	94.5	94.5	86.3	86.3	79.8	58.6	53.7
85°	44.0	65.2	68.4	58.6	44.0	44.0	47.2	45.6	42.3	30.9	29.3
87.5°	22.8	30.9	27.7	22.8	14.7	14.7	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)