

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: P478894

Luminaire Tested: **IFLD-S-SA2C-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478894
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

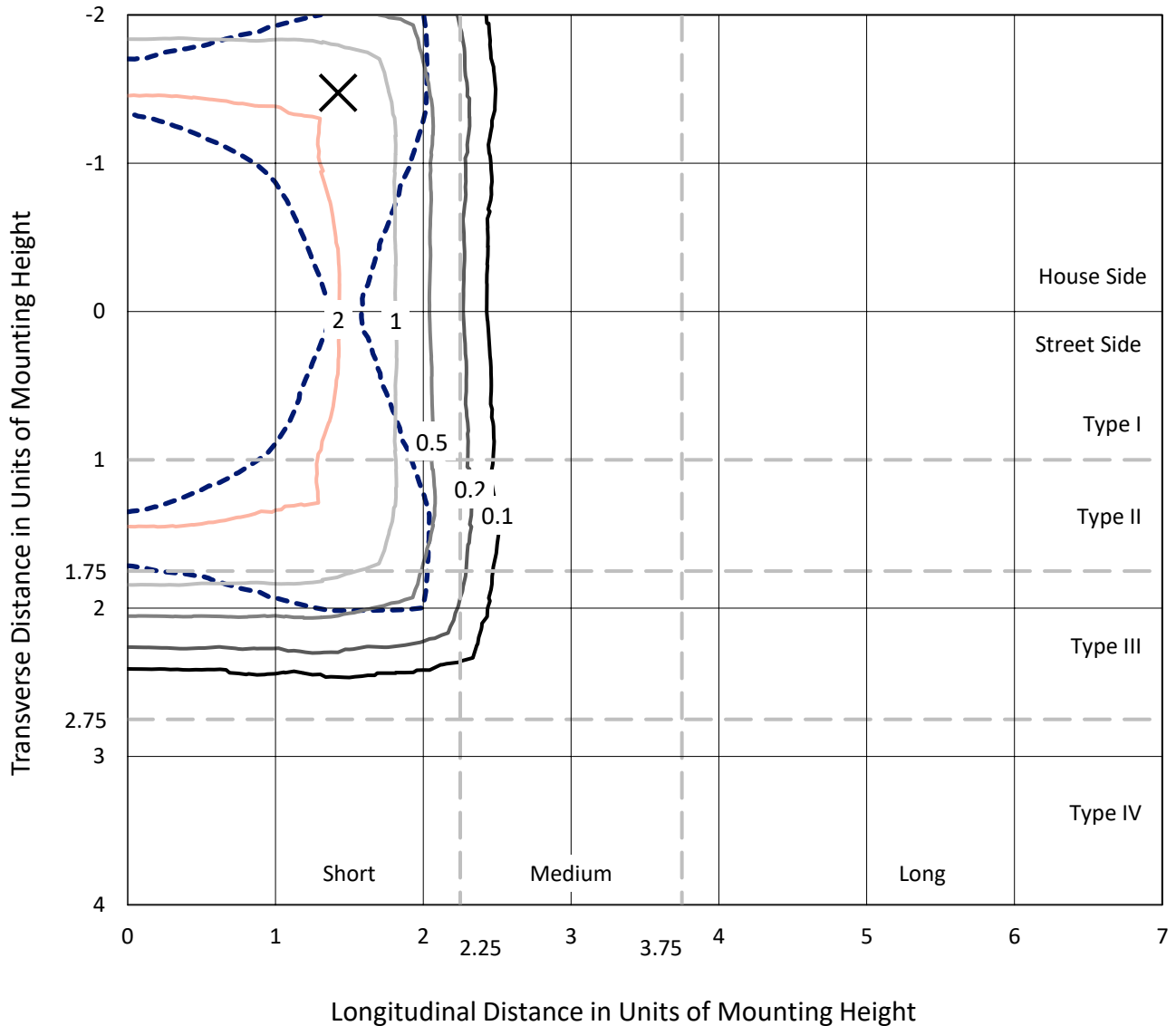
Lumens per Lamp: N/A
Luminaire Lumens: 13981.9 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

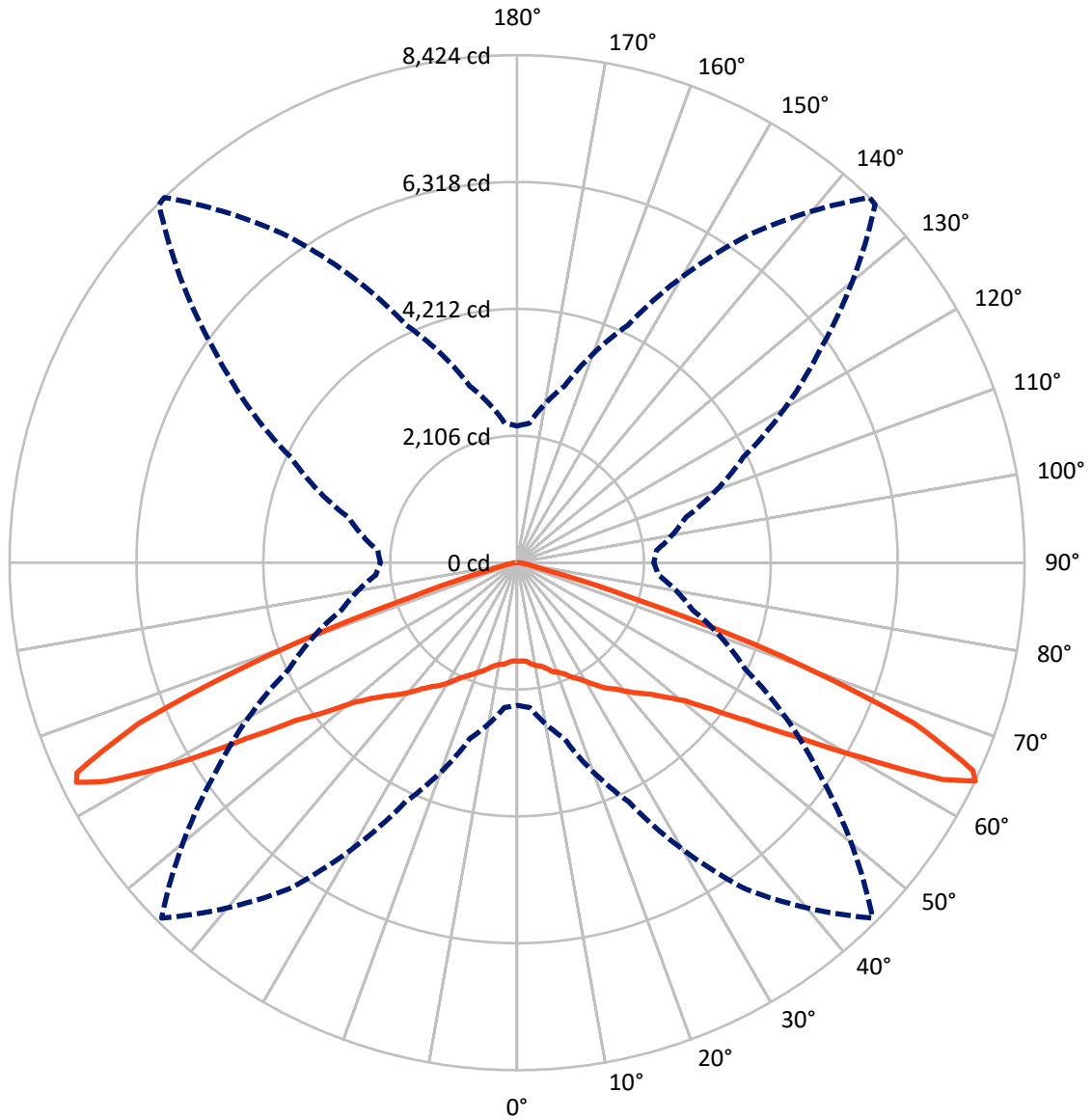
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	6997.6	0.0	6997.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6984.3	0.0	6984.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	13981.9	0.0	13981.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.2
10°-20°	518.4	3.7
20°-30°	974.3	7.0
30°-40°	1606.8	11.5
40°-50°	2512.9	18.0
50°-60°	4060.3	29.0
60°-70°	3656.0	26.1
70°-80°	433.1	3.1
80°-90°	59.3	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°	13981.9	100.0
0°-180°	13981.9	100.0

Coefficient of Utilization



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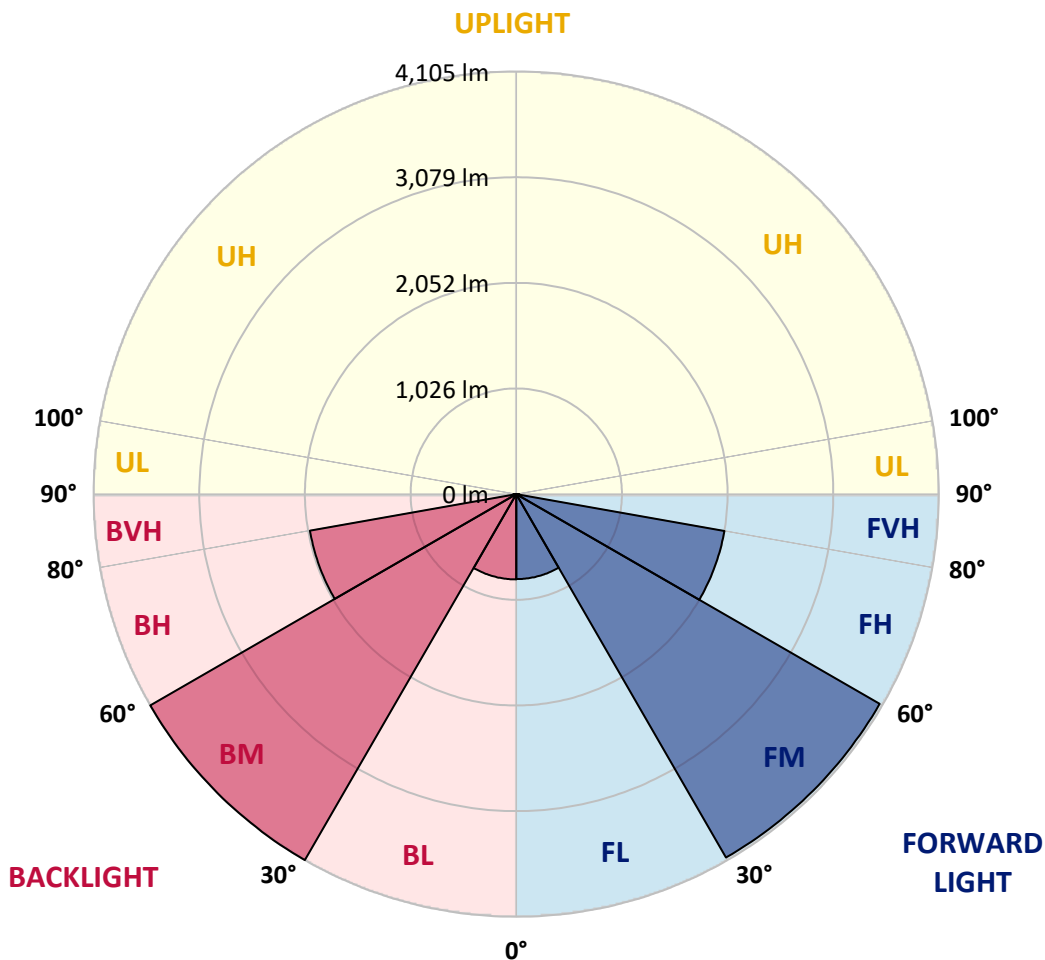
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.2	5.9			
FM (30°-60°)	4075.3	29.1			
FH (60°-80°)	2053.4	14.7			G2/5000
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	828.4	5.9	B2/1000		
BM (30°-60°)	4104.7	29.4	B3/5000		
BH (60°-80°)	2035.7	14.6	B3/2500		G2/5000
BVH (80°-90°)	28.9	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°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1617.7	1621.0	1649.8	1638.6	1648.2	1630.6	1643.4	1670.7	1638.6	1662.6	1670.7
5°	1635.4	1640.2	1640.2	1651.4	1657.8	1654.6	1662.6	1651.4	1681.9	1669.1	1688.3
7.5°	1699.5	1691.5	1678.7	1688.3	1689.9	1697.9	1705.9	1720.4	1715.6	1704.3	1723.6
10°	1710.7	1704.3	1723.6	1725.2	1717.2	1710.7	1718.8	1718.8	1733.2	1736.4	1736.4
12.5°	1730.0	1736.4	1734.8	1747.6	1749.2	1744.4	1757.2	1781.3	1774.9	1779.7	1768.5
15°	1803.7	1795.7	1794.1	1806.9	1827.8	1797.3	1819.8	1818.2	1811.7	1821.4	1795.7
17.5°	1867.9	1842.2	1853.4	1874.3	1866.3	1872.7	1901.5	1875.9	1882.3	1871.1	1863.1
20°	1924.0	1903.1	1904.7	1912.8	1912.8	1932.0	1943.2	1933.6	1927.2	1925.6	1928.8
22.5°	1986.5	1962.5	1964.1	1997.7	2009.0	2002.5	1994.5	2010.6	2013.8	2000.9	2015.4
25°	2033.0	2058.7	2066.7	2082.7	2058.7	2076.3	2069.9	2100.3	2119.6	2093.9	2111.6
27.5°	2154.9	2143.6	2164.5	2162.9	2182.1	2164.5	2175.7	2185.3	2193.3	2194.9	2186.9
30°	2263.9	2268.7	2247.9	2304.0	2259.1	2287.9	2307.2	2312.0	2321.6	2321.6	2297.6
32.5°	2379.3	2369.7	2403.4	2390.5	2382.5	2405.0	2384.1	2449.9	2411.4	2433.8	2406.6
35°	2509.2	2509.2	2522.0	2557.3	2509.2	2494.8	2533.2	2560.5	2560.5	2520.4	2530.0
37.5°	2655.1	2642.3	2658.3	2703.2	2666.3	2618.2	2688.8	2700.0	2692.0	2680.7	2661.5
40°	2757.7	2754.5	2786.6	2845.9	2793.0	2783.4	2796.2	2826.6	2836.3	2847.5	2821.8
42.5°	2930.9	2945.3	3038.3	3023.9	2980.6	2946.9	2943.7	3057.5	3030.3	3001.4	2987.0
45°	3187.4	3174.6	3222.7	3224.3	3168.2	3094.4	3110.4	3214.7	3261.1	3197.0	3221.1
47.5°	3391.0	3397.4	3431.1	3500.0	3370.2	3293.2	3352.5	3520.9	3506.5	3482.4	3504.9
50°	3663.6	3692.4	3798.3	3774.2	3658.8	3564.2	3694.0	3852.8	3870.4	3782.2	3766.2
52.5°	4040.4	4085.3	4143.0	4162.2	4051.6	4017.9	4025.9	4223.1	4179.9	4094.9	4040.4
55°	4370.6	4391.5	4497.3	4656.0	4648.0	4486.1	4579.1	4652.8	4476.5	4301.7	4316.1
57.5°	4511.7	4521.4	4816.4	5133.8	5323.0	5359.9	5254.1	5005.6	4585.5	4248.8	4227.9
60°	4160.6	4252.0	4607.9	5324.6	6188.8	6615.3	5911.4	5045.6	4330.6	3921.7	3891.3
62.5°	3325.3	3330.1	3859.2	4946.2	6727.5	7845.0	6163.2	4668.9	3650.8	3187.4	3065.5
64°	2368.1	2413.0	3020.7	4378.7	6615.3	8345.3	6132.7	4176.6	3009.4	2352.1	2267.1
65°	1699.5	1762.0	2348.9	3801.5	6352.3	8285.9	6041.3	3753.4	2433.8	1795.7	1709.1
67.5°	625.3	650.9	921.9	1901.5	4561.4	7061.0	4787.5	2063.5	1069.4	761.6	684.6
70°	290.2	291.8	341.5	628.5	1994.5	4721.8	2284.7	774.4	402.4	319.1	296.6
72.5°	213.2	218.1	238.9	290.2	586.8	1999.3	750.4	317.5	235.7	208.4	203.6
75°	173.2	176.4	182.8	210.0	271.0	535.5	304.6	219.7	187.6	168.3	161.9
77.5°	133.1	133.1	147.5	160.3	179.6	250.1	202.0	174.8	152.3	133.1	128.3
80°	96.2	97.8	115.4	125.1	121.9	165.1	145.9	144.3	125.1	104.2	96.2
82.5°	56.1	60.9	83.4	89.8	86.6	97.8	105.8	112.2	97.8	72.1	65.7
85°	32.1	33.7	48.1	49.7	49.7	46.5	60.9	67.3	65.7	44.9	40.1
87.5°	9.6	9.6	12.8	12.8	14.4	16.0	24.0	28.9	32.1	22.4	20.8
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°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1662.6	1638.6	1640.2	1646.6	1625.8	1633.8	1657.8	1640.2	1635.4	1625.8	1621.0
5°	1654.6	1680.3	1670.7	1673.9	1669.1	1646.6	1643.4	1657.8	1665.8	1651.4	1680.3
7.5°	1710.7	1699.5	1686.7	1691.5	1680.3	1699.5	1712.3	1683.5	1697.9	1689.9	1673.9
10°	1742.8	1722.0	1731.6	1728.4	1720.4	1739.6	1726.8	1723.6	1710.7	1693.1	1718.8
12.5°	1754.0	1778.1	1794.1	1766.9	1771.7	1762.0	1754.0	1754.0	1739.6	1734.8	1739.6
15°	1803.7	1824.6	1818.2	1839.0	1811.7	1821.4	1831.0	1806.9	1819.8	1784.5	1811.7
17.5°	1895.1	1877.5	1899.9	1872.7	1882.3	1901.5	1871.1	1871.1	1880.7	1861.5	1837.4
20°	1952.8	1944.8	1936.8	1938.4	1922.4	1940.0	1930.4	1925.6	1911.2	1917.6	1930.4
22.5°	2007.4	1996.1	1999.3	2004.1	2015.4	2007.4	2002.5	2007.4	1972.1	2004.1	1959.3
25°	2074.7	2105.2	2095.5	2116.4	2084.3	2105.2	2103.6	2073.1	2092.3	2079.5	2069.9
27.5°	2186.9	2170.9	2185.3	2159.7	2182.1	2183.7	2164.5	2215.8	2193.3	2190.1	2183.7
30°	2331.2	2320.0	2310.4	2296.0	2313.6	2299.2	2315.2	2320.0	2299.2	2283.1	2252.7
32.5°	2413.0	2443.5	2454.7	2419.4	2421.0	2429.0	2414.6	2400.2	2413.0	2417.8	2413.0
35°	2528.4	2557.3	2563.7	2536.4	2522.0	2562.1	2533.2	2581.3	2539.7	2541.3	2498.0
37.5°	2663.1	2671.1	2725.6	2695.2	2682.4	2663.1	2716.0	2709.6	2719.2	2642.3	2680.7
40°	2815.4	2844.3	2874.7	2797.8	2796.2	2813.8	2810.6	2847.5	2829.9	2818.6	2791.4
42.5°	2982.2	3043.1	3047.9	2996.6	2964.5	2961.3	2977.4	3059.1	3060.7	2987.0	2954.9
45°	3203.4	3270.8	3253.1	3153.7	3118.5	3113.6	3192.2	3227.5	3257.9	3229.1	3201.8
47.5°	3479.2	3524.1	3511.3	3419.9	3306.0	3338.1	3415.1	3525.7	3493.6	3455.2	3423.1
50°	3774.2	3827.1	3799.9	3708.5	3599.4	3599.4	3694.0	3835.1	3825.5	3750.2	3721.3
52.5°	4101.3	4178.2	4240.8	4110.9	4019.5	4033.9	4183.1	4234.4	4210.3	4157.4	4133.4
55°	4345.0	4492.5	4620.8	4627.2	4632.0	4630.4	4668.9	4720.2	4548.6	4463.6	4377.1
57.5°	4285.7	4564.6	5004.0	5302.2	5390.4	5436.9	5424.0	5186.7	4781.1	4502.1	4531.0
60°	3862.4	4317.7	5026.4	5983.6	6624.9	6560.8	6326.7	5388.8	4652.8	4181.5	4122.1
62.5°	3081.6	3629.9	4649.6	6176.0	7942.8	7923.6	6698.7	4922.2	3876.8	3280.4	3243.5
64°	2321.6	2898.8	4147.8	6126.3	8404.6	8423.8	6604.1	4348.2	3033.5	2321.6	2265.5
65°	1776.5	2312.0	3655.6	6023.7	8305.2	8316.4	6341.1	3755.0	2305.6	1648.2	1587.3
67.5°	707.1	984.4	1983.3	4567.9	7131.6	7101.1	4524.6	1816.6	881.8	574.0	562.8
70°	301.4	375.2	695.8	2164.5	4774.7	4686.5	1948.0	590.0	327.1	274.2	272.6
72.5°	206.8	229.3	298.2	668.6	1984.9	1938.4	554.7	274.2	222.9	205.2	205.2
75°	166.7	182.8	216.4	280.6	525.9	506.6	261.3	202.0	178.0	165.1	163.5
77.5°	129.9	145.9	170.0	194.0	240.5	238.9	174.8	152.3	137.9	128.3	125.1
80°	102.6	118.6	134.7	137.9	157.1	153.9	118.6	120.2	112.2	93.0	91.4
82.5°	70.5	96.2	107.4	97.8	93.0	93.0	85.0	85.0	78.6	57.7	52.9
85°	43.3	64.1	67.3	57.7	43.3	43.3	46.5	44.9	41.7	30.5	28.9
87.5°	22.4	30.5	27.3	22.4	14.4	14.4	12.8	9.6	9.6	8.0	8.0
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)