

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: P479229

Luminaire Tested: **IFLD-M-SA4A-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479229
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

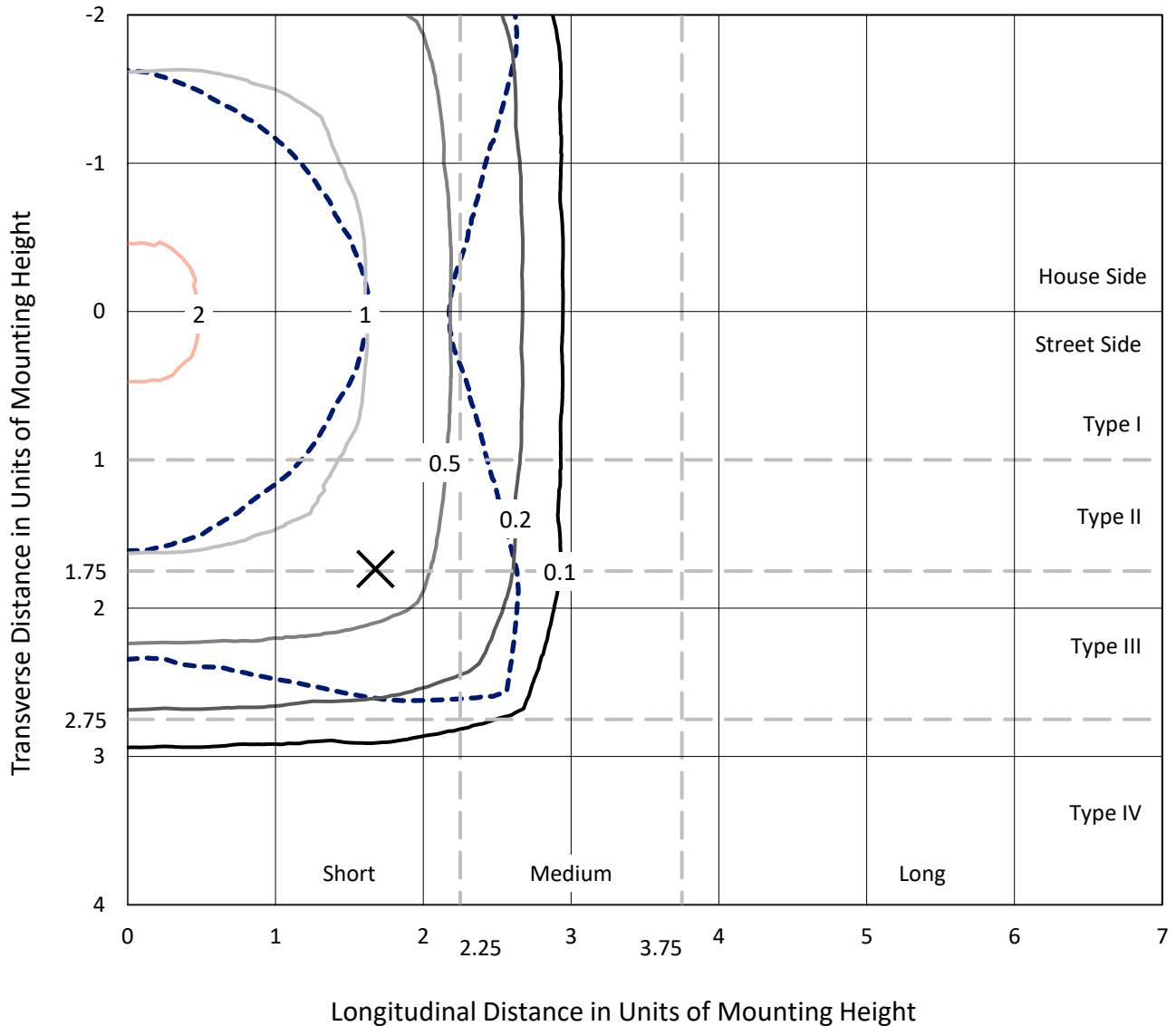
Lumens per Lamp: N/A
Luminaire Lumens: 15589.6 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

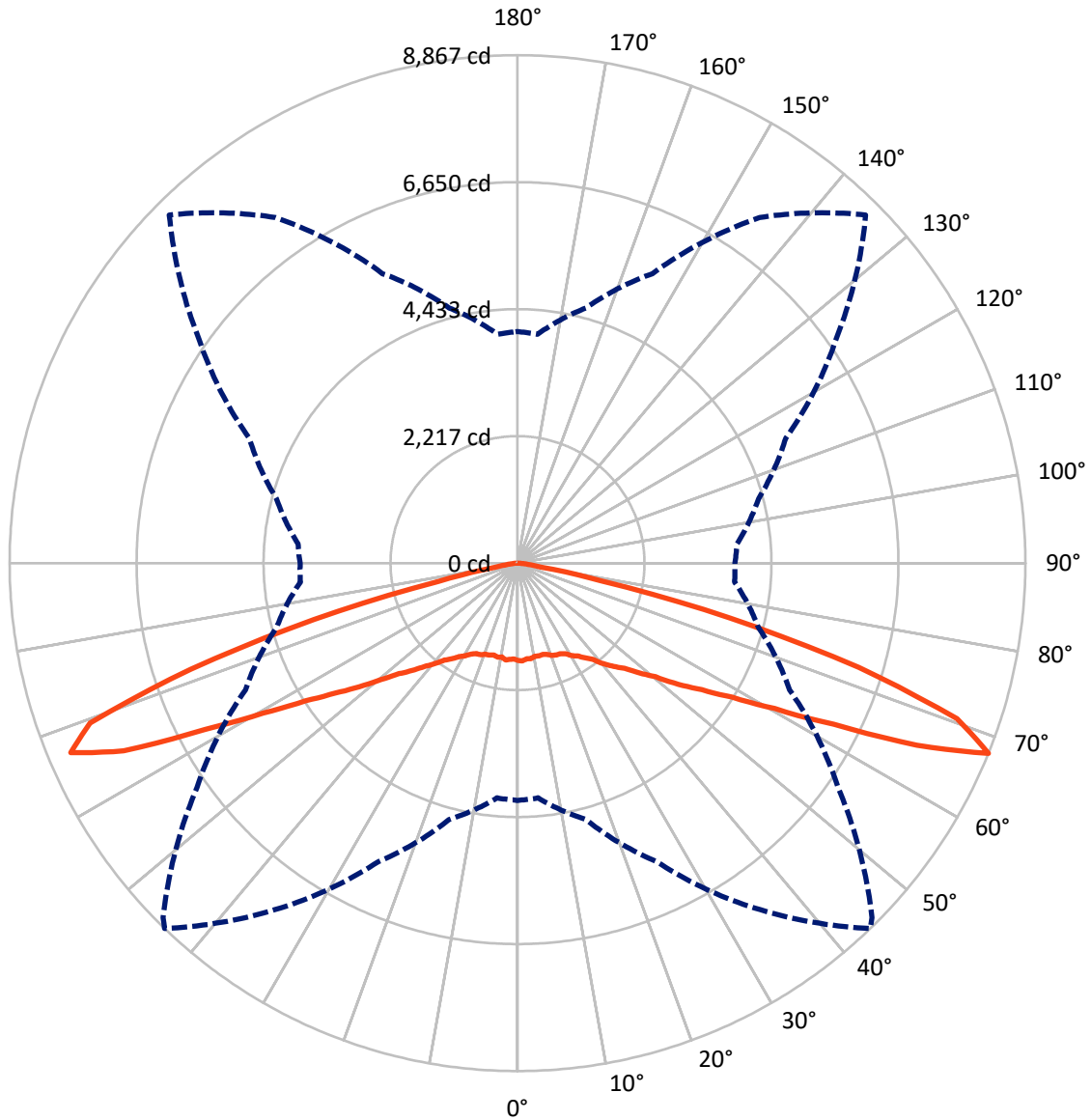
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7774.8	0.0	7774.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7814.7	0.0	7814.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	15589.6	0.0	15589.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.0
10°-20°	470.8	3.0
20°-30°	800.6	5.1
30°-40°	1269.4	8.1
40°-50°	2069.8	13.3
50°-60°	3534.9	22.7
60°-70°	5376.6	34.5
70°-80°	1812.2	11.6
80°-90°	94.1	0.6
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°	15589.6	100.0
0°-180°	15589.6	100.0

Coefficient of Utilization



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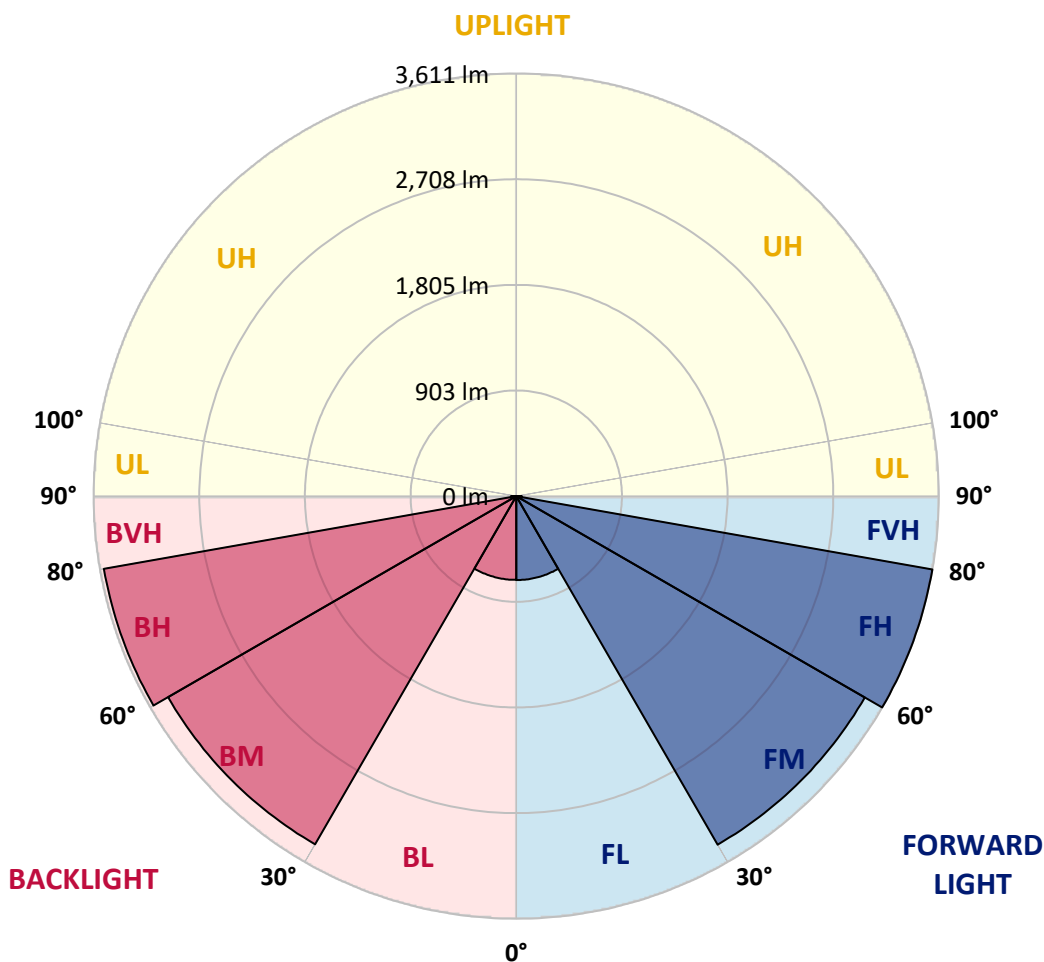
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.0	4.6			
FM (30°-60°)	3438.9	22.1			
FH (60°-80°)	3610.7	23.2			G2/5000
FVH (80°-90°)	48.1	0.3			G1/100
BL (0°-30°)	715.5	4.6	B2/1000		
BM (30°-60°)	3435.2	22.0	B3/5000		
BH (60°-80°)	3578.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1663.7	1683.3	1697.6	1695.8	1701.1	1706.5	1699.3	1710.0	1702.9	1715.3	1722.5
5°	1695.8	1690.4	1692.2	1681.5	1706.5	1678.0	1678.0	1692.2	1710.0	1688.7	1701.1
7.5°	1676.2	1672.6	1663.7	1679.8	1685.1	1685.1	1699.3	1672.6	1702.9	1710.0	1711.8
10°	1654.8	1635.3	1662.0	1678.0	1681.5	1653.1	1665.5	1672.6	1663.7	1672.6	1678.0
12.5°	1637.1	1647.7	1647.7	1647.7	1642.4	1662.0	1674.4	1672.6	1654.8	1670.9	1642.4
15°	1635.3	1629.9	1646.0	1660.2	1651.3	1654.8	1660.2	1676.2	1642.4	1649.5	1649.5
17.5°	1633.5	1640.6	1646.0	1644.2	1674.4	1674.4	1669.1	1658.4	1685.1	1670.9	1651.3
20°	1640.6	1635.3	1649.5	1654.8	1676.2	1718.9	1702.9	1694.0	1679.8	1662.0	1662.0
22.5°	1649.5	1646.0	1665.5	1688.7	1729.6	1740.3	1738.5	1727.8	1702.9	1681.5	1678.0
25°	1681.5	1649.5	1670.9	1715.3	1729.6	1750.9	1765.2	1750.9	1717.1	1722.5	1690.4
27.5°	1729.6	1724.2	1752.7	1783.0	1770.5	1790.1	1777.6	1788.3	1790.1	1763.4	1731.4
30°	1786.5	1770.5	1788.3	1847.0	1852.4	1873.7	1852.4	1823.9	1832.8	1809.7	1793.6
32.5°	1868.4	1863.0	1896.8	1936.0	1943.1	1932.4	1921.8	1937.8	1900.4	1882.6	1854.1
35°	1921.8	1944.9	1985.8	2016.1	2039.2	2028.5	2033.9	2017.8	2026.7	1989.4	1976.9
37.5°	2080.1	2071.2	2080.1	2131.7	2137.1	2131.7	2137.1	2154.9	2142.4	2110.4	2078.3
40°	2229.6	2215.4	2236.7	2295.4	2291.9	2309.7	2274.1	2293.7	2293.7	2233.2	2220.7
42.5°	2341.7	2389.7	2414.7	2462.7	2480.5	2464.5	2457.4	2460.9	2500.1	2428.9	2402.2
45°	2573.0	2571.2	2646.0	2672.7	2622.8	2619.3	2605.1	2647.8	2674.4	2633.5	2622.8
47.5°	2823.9	2836.4	2879.1	2889.8	2920.0	2864.8	2864.8	2870.2	2964.5	2868.4	2818.6
50°	3049.9	3065.9	3151.3	3235.0	3178.0	3119.3	3142.4	3170.9	3222.5	3131.8	3089.0
52.5°	3323.9	3411.1	3468.1	3512.5	3553.5	3512.5	3459.2	3491.2	3592.6	3471.6	3418.2
55°	3719.0	3788.4	3841.7	3923.6	3957.4	3902.2	3896.9	3893.3	3950.3	3822.2	3749.2
57.5°	4160.3	4131.8	4217.2	4343.5	4466.3	4412.9	4396.9	4400.5	4414.7	4233.2	4178.0
60°	4708.3	4740.3	4841.8	4952.1	5082.0	5156.7	5051.7	4991.2	5003.7	4756.4	4670.9
62.5°	5021.5	5092.7	5322.2	5701.2	5962.8	6195.9	6211.9	5818.7	5555.3	5074.9	4711.9
65°	4870.2	4859.6	5292.0	5993.0	6984.2	7662.1	7560.7	6606.9	5687.0	4923.6	4436.1
67.5°	4142.5	4114.0	4637.1	5749.3	7386.3	8866.8	8751.1	6829.4	5242.1	4356.0	3804.4
70°	2669.1	2662.0	3229.6	4382.7	6594.5	8140.8	8183.5	6203.0	4267.0	3190.5	2644.2
72.5°	969.8	1028.5	1357.7	2355.9	4478.8	6227.9	6254.6	4592.6	2453.8	1475.1	1087.2
75°	357.7	368.3	428.8	765.1	2041.0	3823.9	3923.6	2227.8	871.9	480.4	391.5
77.5°	206.4	208.2	229.5	284.7	605.0	1492.9	1553.4	676.2	338.1	256.2	236.7
80°	140.6	138.8	161.9	185.1	242.0	423.5	450.2	282.9	213.5	177.9	149.5
82.5°	81.9	87.2	119.2	131.7	147.7	186.8	190.4	176.2	160.1	131.7	97.9
85°	49.8	40.9	65.8	73.0	85.4	83.6	83.6	96.1	103.2	92.5	55.2
87.5°	12.5	12.5	16.0	17.8	23.1	17.8	19.6	37.4	49.8	46.3	28.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1706.5	1701.1	1704.7	1724.2	1711.8	1674.4	1683.3	1702.9	1686.9	1678.0	1676.2
5°	1699.3	1710.0	1697.6	1701.1	1713.6	1683.3	1688.7	1713.6	1702.9	1706.5	1686.9
7.5°	1701.1	1706.5	1695.8	1679.8	1679.8	1704.7	1690.4	1694.0	1678.0	1704.7	1669.1
10°	1690.4	1676.2	1663.7	1672.6	1669.1	1662.0	1656.6	1667.3	1651.3	1674.4	1649.5
12.5°	1658.4	1662.0	1658.4	1654.8	1662.0	1679.8	1651.3	1654.8	1629.9	1633.5	1646.0
15°	1646.0	1656.6	1653.1	1672.6	1681.5	1654.8	1676.2	1654.8	1635.3	1624.6	1644.2
17.5°	1651.3	1667.3	1662.0	1676.2	1660.2	1679.8	1683.3	1674.4	1651.3	1642.4	1651.3
20°	1656.6	1651.3	1658.4	1683.3	1706.5	1686.9	1686.9	1681.5	1660.2	1647.7	1647.7
22.5°	1669.1	1660.2	1670.9	1690.4	1697.6	1727.8	1701.1	1688.7	1653.1	1621.0	1651.3
25°	1694.0	1699.3	1706.5	1699.3	1738.5	1734.9	1731.4	1722.5	1667.3	1669.1	1663.7
27.5°	1742.0	1711.8	1720.7	1763.4	1768.7	1783.0	1765.2	1781.2	1722.5	1724.2	1688.7
30°	1800.8	1768.7	1797.2	1834.6	1832.8	1859.5	1850.6	1854.1	1813.2	1790.1	1742.0
32.5°	1864.8	1861.3	1879.1	1902.2	1911.1	1925.3	1923.5	1923.5	1898.6	1838.1	1847.0
35°	1936.0	1960.9	1982.3	2007.2	2010.7	2028.5	2003.6	2007.2	1982.3	1937.8	1952.0
37.5°	2076.6	2074.8	2097.9	2128.2	2131.7	2117.5	2137.1	2128.2	2094.4	2064.1	2041.0
40°	2240.3	2204.7	2226.0	2297.2	2302.6	2277.6	2275.9	2274.1	2249.2	2183.3	2169.1
42.5°	2382.6	2428.9	2425.3	2448.5	2432.4	2420.0	2464.5	2439.6	2420.0	2350.6	2338.1
45°	2565.9	2580.1	2626.4	2701.1	2624.6	2624.6	2654.9	2635.3	2624.6	2573.0	2525.0
47.5°	2793.7	2806.1	2898.7	2904.0	2854.2	2820.4	2914.7	2918.2	2873.7	2834.6	2775.9
50°	3060.6	3065.9	3149.5	3235.0	3179.8	3115.7	3211.8	3249.2	3149.5	3096.2	3023.2
52.5°	3354.2	3338.2	3407.6	3567.7	3514.3	3494.8	3598.0	3606.9	3471.6	3388.0	3407.6
55°	3692.3	3670.9	3859.5	3968.1	3934.3	3898.7	3944.9	3966.3	3857.8	3720.7	3768.8
57.5°	4130.0	4140.7	4235.0	4341.8	4396.9	4405.8	4427.2	4405.8	4295.5	4156.7	4112.2
60°	4567.7	4599.8	4783.0	4984.1	5001.9	5158.5	5130.0	5023.3	4866.7	4669.2	4678.1
62.5°	4729.7	4703.0	4998.4	5489.5	5907.6	6194.1	6067.8	5688.8	5325.8	4966.3	4993.0
65°	4404.0	4469.9	4872.0	5640.7	6548.2	7681.7	7009.1	5961.0	5227.9	4763.5	4711.9
67.5°	3795.5	3845.3	4356.0	5167.4	6777.8	8596.3	7365.0	5576.7	4610.4	4009.0	4041.0
70°	2644.2	2669.1	3169.1	4233.2	6146.1	8112.3	6644.3	4283.0	3183.4	2537.4	2573.0
72.5°	1064.1	1124.6	1453.8	2549.9	4537.5	6163.9	4473.4	2247.4	1320.3	982.2	891.5
75°	393.2	395.0	464.4	877.2	2154.9	3873.8	2017.8	722.4	421.7	345.2	329.2
77.5°	227.8	226.0	242.0	316.7	624.6	1512.5	573.0	282.9	229.5	206.4	197.5
80°	142.4	140.6	165.5	210.0	274.0	414.6	242.0	176.2	154.8	133.5	133.5
82.5°	90.7	92.5	129.9	154.8	167.3	183.3	140.6	124.6	115.7	76.5	74.7
85°	58.7	53.4	90.7	103.2	92.5	81.9	78.3	65.8	60.5	37.4	40.9
87.5°	26.7	28.5	46.3	51.6	33.8	19.6	19.6	14.2	14.2	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)