

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: P478817

Luminaire Tested: **IFLD-S-SA2D-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

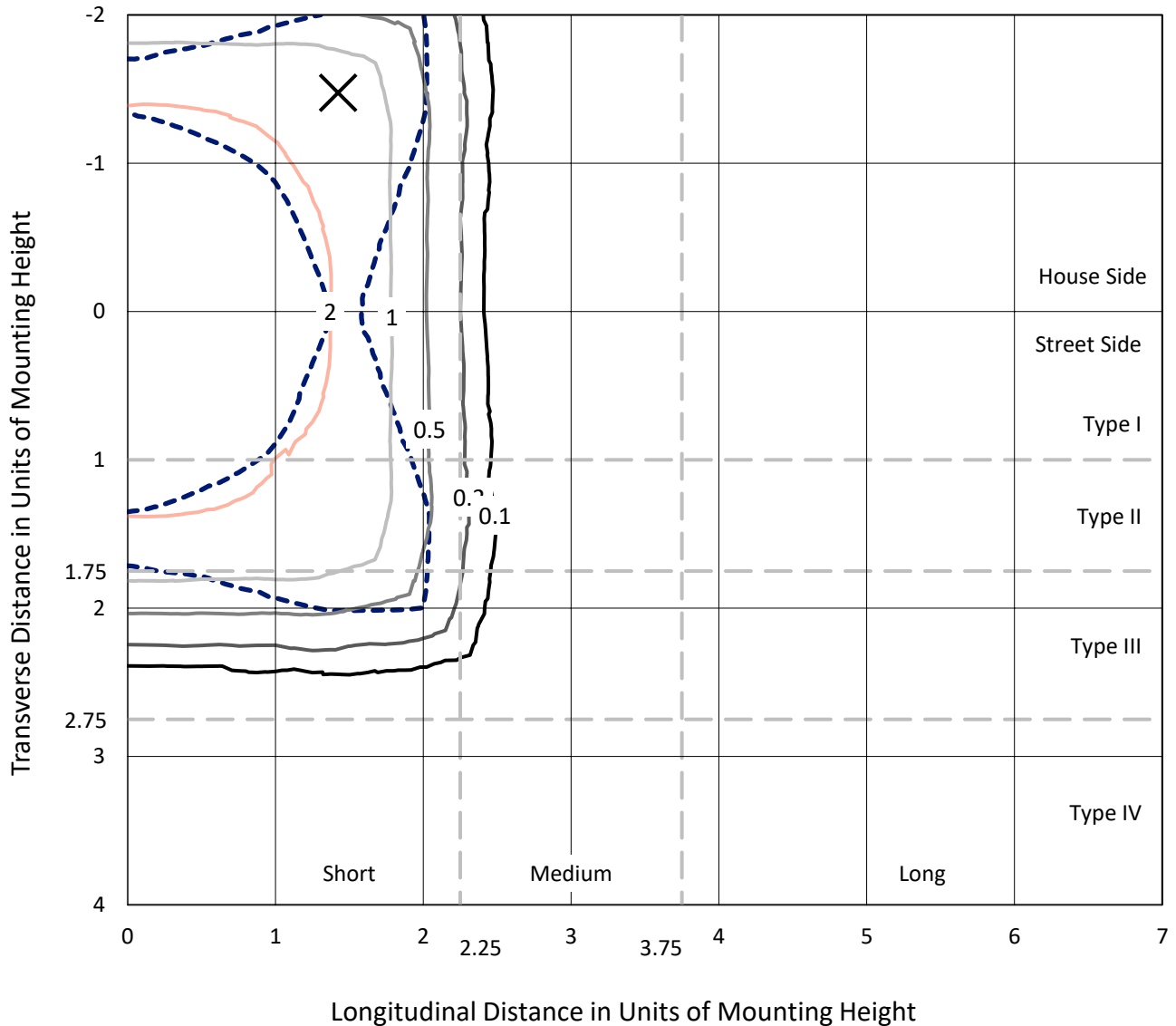
Lumens per Lamp: N/A
Luminaire Lumens: 13045 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

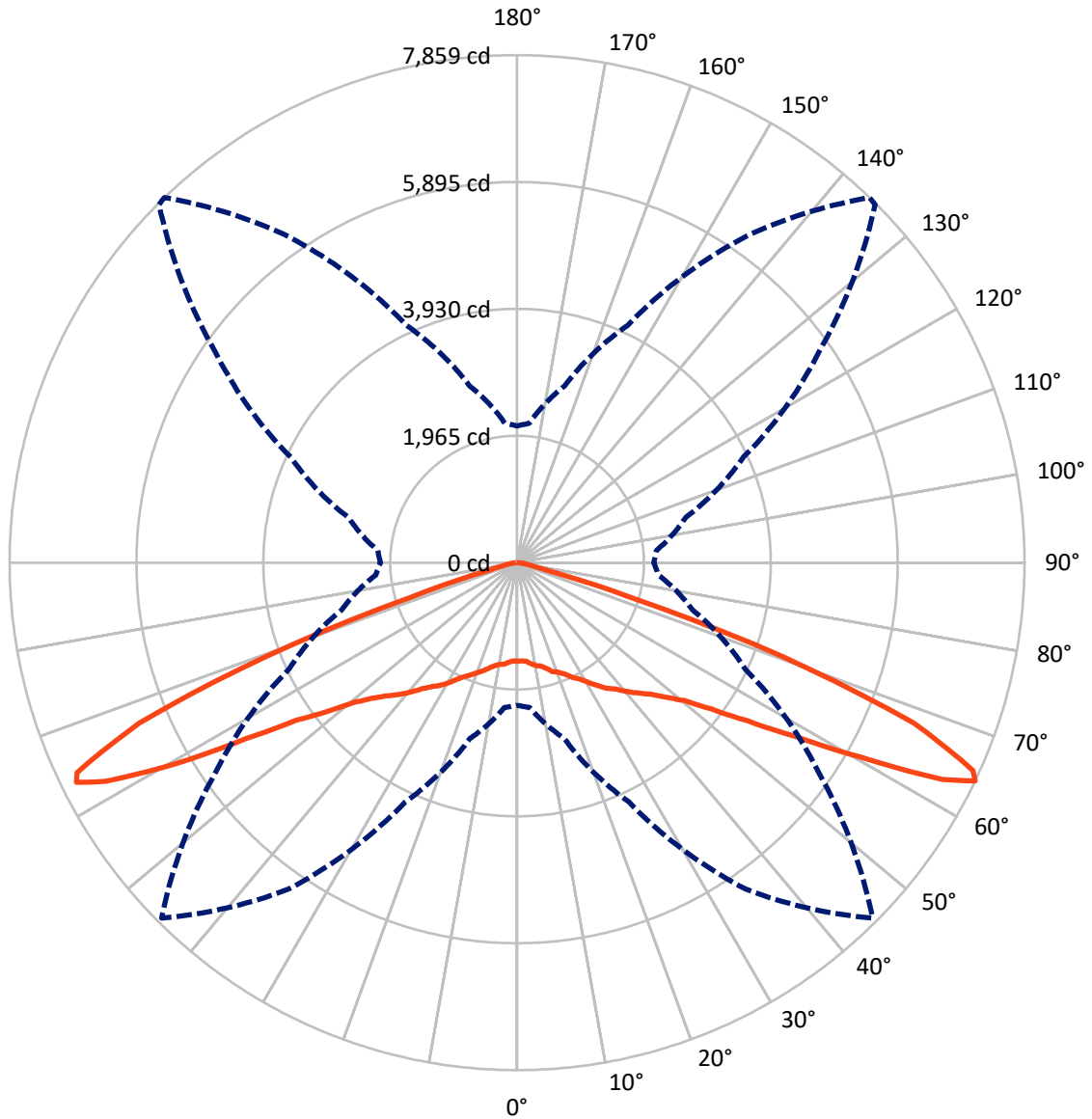
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	6528.7	0.0	6528.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6516.3	0.0	6516.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	13045.0	0.0	13045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.2
10°-20°	483.7	3.7
20°-30°	909.0	7.0
30°-40°	1499.1	11.5
40°-50°	2344.5	18.0
50°-60°	3788.2	29.0
60°-70°	3411.0	26.1
70°-80°	404.1	3.1
80°-90°	55.3	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°	13045.0	100.0
0°-180°	13045.0	100.0

Coefficient of Utilization



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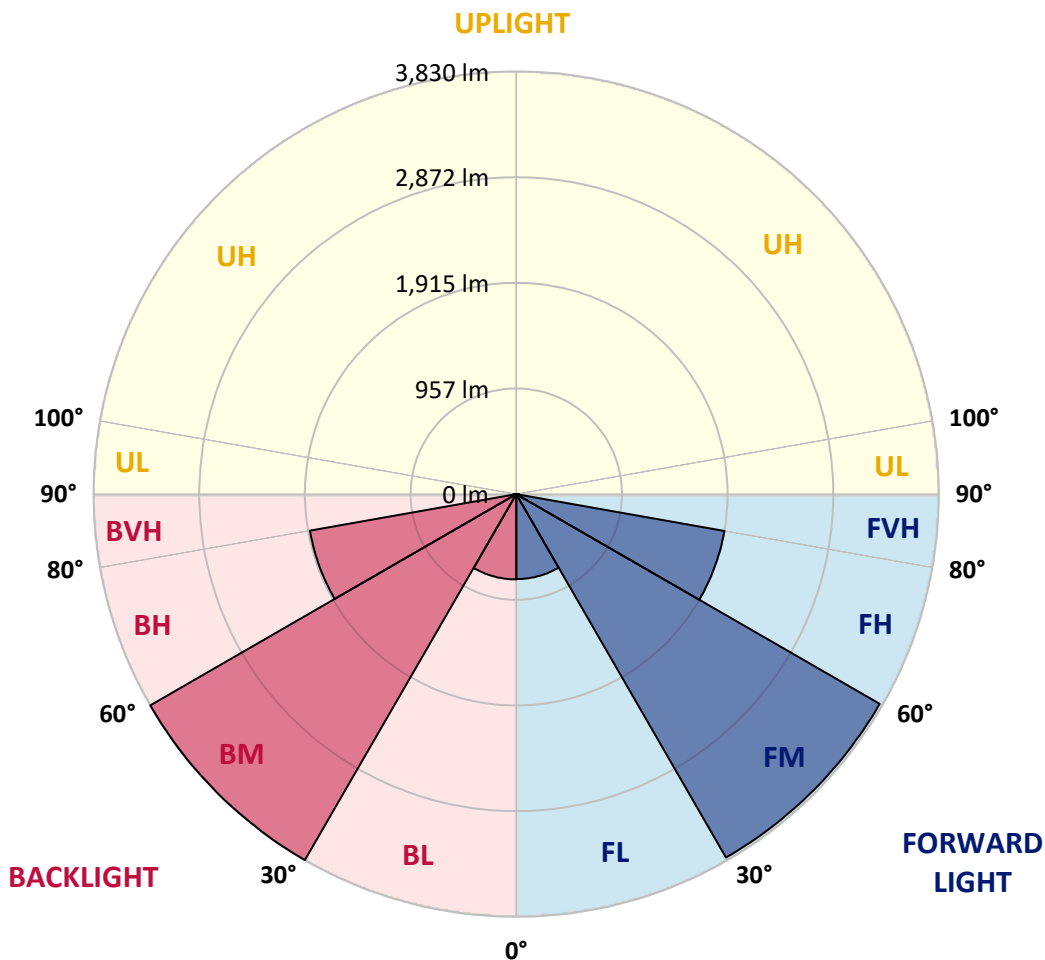
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.9	5.9			
FM (30°-60°)	3802.2	29.1			
FH (60°-80°)	1915.8	14.7			G2/5000
FVH (80°-90°)	28.4	0.2			G1/100
BL (0°-30°)	772.9	5.9	B2/1000		
BM (30°-60°)	3829.6	29.4	B3/5000		
BH (60°-80°)	1899.3	14.6	B3/2500		G2/5000
BVH (80°-90°)	26.9	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°	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3
2.5°	1509.3	1512.3	1539.3	1528.8	1537.8	1521.3	1533.3	1558.7	1528.8	1551.2	1558.7
5°	1525.8	1530.3	1530.3	1540.8	1546.7	1543.8	1551.2	1540.8	1569.2	1557.2	1575.2
7.5°	1585.6	1578.2	1566.2	1575.2	1576.7	1584.1	1591.6	1605.1	1600.6	1590.1	1608.1
10°	1596.1	1590.1	1608.1	1609.6	1602.1	1596.1	1603.6	1603.6	1617.1	1620.0	1620.0
12.5°	1614.1	1620.0	1618.5	1630.5	1632.0	1627.5	1639.5	1661.9	1655.9	1660.4	1650.0
15°	1682.9	1675.4	1673.9	1685.9	1705.3	1676.9	1697.8	1696.3	1690.4	1699.3	1675.4
17.5°	1742.7	1718.8	1729.2	1748.7	1741.2	1747.2	1774.1	1750.2	1756.2	1745.7	1738.2
20°	1795.1	1775.6	1777.1	1784.6	1784.6	1802.5	1813.0	1804.0	1798.1	1796.6	1799.6
22.5°	1853.4	1831.0	1832.5	1863.9	1874.3	1868.4	1860.9	1875.8	1878.8	1866.9	1880.3
25°	1896.8	1920.7	1928.2	1943.2	1920.7	1937.2	1931.2	1959.6	1977.6	1953.6	1970.1
27.5°	2010.5	2000.0	2019.4	2017.9	2035.9	2019.4	2029.9	2038.9	2046.4	2047.9	2040.4
30°	2112.2	2116.7	2097.2	2149.6	2107.7	2134.6	2152.6	2157.1	2166.0	2166.0	2143.6
32.5°	2219.9	2210.9	2242.3	2230.4	2222.9	2243.8	2224.4	2285.7	2249.8	2270.8	2245.3
35°	2341.1	2341.1	2353.0	2385.9	2341.1	2327.6	2363.5	2388.9	2388.9	2351.5	2360.5
37.5°	2477.2	2465.2	2480.2	2522.1	2487.7	2442.8	2508.6	2519.1	2511.6	2501.1	2483.2
40°	2572.9	2569.9	2599.8	2655.2	2605.8	2596.9	2608.8	2637.2	2646.2	2656.7	2632.8
42.5°	2734.5	2747.9	2834.7	2821.2	2780.9	2749.4	2746.4	2852.7	2827.2	2800.3	2786.8
45°	2973.8	2961.9	3006.7	3008.2	2955.9	2887.1	2902.0	2999.3	3042.6	2982.8	3005.2
47.5°	3163.8	3169.8	3201.2	3265.5	3144.4	3072.5	3127.9	3285.0	3271.5	3249.1	3270.0
50°	3418.1	3445.0	3543.8	3521.3	3413.6	3325.4	3446.5	3594.6	3611.1	3528.8	3513.8
52.5°	3769.6	3811.5	3865.4	3883.3	3780.1	3748.7	3756.2	3940.2	3899.8	3820.5	3769.6
55°	4077.8	4097.2	4196.0	4344.1	4336.6	4185.5	4272.2	4341.1	4176.5	4013.5	4026.9
57.5°	4209.4	4218.4	4493.6	4789.8	4966.3	5000.7	4902.0	4670.2	4278.2	3964.1	3944.6
60°	3881.8	3967.1	4299.2	4967.8	5774.1	6172.0	5515.3	4707.6	4040.4	3658.9	3630.5
62.5°	3102.5	3107.0	3600.6	4614.8	6276.7	7319.4	5750.2	4356.0	3406.1	2973.8	2860.1
64°	2209.4	2251.3	2818.2	4085.3	6172.0	7786.1	5721.8	3896.8	2807.8	2194.5	2115.2
65°	1585.6	1644.0	2191.5	3546.7	5926.7	7730.7	5636.5	3501.9	2270.8	1675.4	1594.6
67.5°	583.4	607.3	860.1	1774.1	4255.8	6587.9	4466.7	1925.2	997.8	710.5	638.7
70°	270.8	272.3	318.6	586.4	1860.9	4405.4	2131.6	722.5	375.5	297.7	276.7
72.5°	199.0	203.4	222.9	270.8	547.5	1865.4	700.1	296.2	219.9	194.5	190.0
75°	161.6	164.5	170.5	196.0	252.8	499.6	284.2	204.9	175.0	157.1	151.1
77.5°	124.2	124.2	137.6	149.6	167.5	233.4	188.5	163.1	142.1	124.2	119.7
80°	89.8	91.2	107.7	116.7	113.7	154.1	136.1	134.6	116.7	97.2	89.8
82.5°	52.4	56.8	77.8	83.8	80.8	91.2	98.7	104.7	91.2	67.3	61.3
85°	29.9	31.4	44.9	46.4	46.4	43.4	56.8	62.8	61.3	41.9	37.4
87.5°	9.0	9.0	12.0	12.0	13.5	15.0	22.4	26.9	29.9	20.9	19.4
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°	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3	1527.3
2.5°	1551.2	1528.8	1530.3	1536.3	1516.8	1524.3	1546.7	1530.3	1525.8	1516.8	1512.3
5°	1543.8	1567.7	1558.7	1561.7	1557.2	1536.3	1533.3	1546.7	1554.2	1540.8	1567.7
7.5°	1596.1	1585.6	1573.7	1578.2	1567.7	1585.6	1597.6	1570.7	1584.1	1576.7	1561.7
10°	1626.0	1606.6	1615.6	1612.6	1605.1	1623.0	1611.1	1608.1	1596.1	1579.7	1603.6
12.5°	1636.5	1658.9	1673.9	1648.5	1653.0	1644.0	1636.5	1636.5	1623.0	1618.5	1623.0
15°	1682.9	1702.3	1696.3	1715.8	1690.4	1699.3	1708.3	1685.9	1697.8	1664.9	1690.4
17.5°	1768.1	1751.7	1772.6	1747.2	1756.2	1774.1	1745.7	1745.7	1754.7	1736.7	1714.3
20°	1822.0	1814.5	1807.0	1808.5	1793.6	1810.0	1801.0	1796.6	1783.1	1789.1	1801.0
22.5°	1872.8	1862.4	1865.4	1869.9	1880.3	1872.8	1868.4	1872.8	1839.9	1869.9	1828.0
25°	1935.7	1964.1	1955.1	1974.6	1944.7	1964.1	1962.6	1934.2	1952.1	1940.2	1931.2
27.5°	2040.4	2025.4	2038.9	2015.0	2035.9	2037.4	2019.4	2067.3	2046.4	2043.4	2037.4
30°	2175.0	2164.5	2155.6	2142.1	2158.6	2145.1	2160.1	2164.5	2145.1	2130.1	2101.7
32.5°	2251.3	2279.7	2290.2	2257.3	2258.8	2266.3	2252.8	2239.3	2251.3	2255.8	2251.3
35°	2359.0	2385.9	2391.9	2366.5	2353.0	2390.4	2363.5	2408.4	2369.5	2371.0	2330.6
37.5°	2484.7	2492.1	2543.0	2514.6	2502.6	2484.7	2534.0	2528.0	2537.0	2465.2	2501.1
40°	2626.8	2653.7	2682.1	2610.3	2608.8	2625.3	2622.3	2656.7	2640.2	2629.8	2604.3
42.5°	2782.3	2839.2	2843.7	2795.8	2765.9	2762.9	2777.9	2854.1	2855.6	2786.8	2756.9
45°	2988.8	3051.6	3035.2	2942.4	2909.5	2905.0	2978.3	3011.2	3039.6	3012.7	2987.3
47.5°	3246.1	3288.0	3276.0	3190.7	3084.5	3114.4	3186.2	3289.5	3259.5	3223.6	3193.7
50°	3521.3	3570.7	3545.2	3460.0	3358.3	3358.3	3446.5	3578.2	3569.2	3498.9	3471.9
52.5°	3826.5	3898.3	3956.6	3835.4	3750.2	3763.6	3902.8	3950.6	3928.2	3878.8	3856.4
55°	4053.8	4191.5	4311.1	4317.1	4321.6	4320.1	4356.0	4403.9	4243.8	4164.5	4083.8
57.5°	3998.5	4258.8	4668.7	4946.9	5029.2	5072.5	5060.6	4839.2	4460.7	4200.4	4227.4
60°	3603.6	4028.4	4689.6	5582.6	6181.0	6121.2	5902.8	5027.7	4341.1	3901.3	3845.9
62.5°	2875.1	3386.7	4338.1	5762.2	7410.6	7392.7	6249.8	4592.4	3617.1	3060.6	3026.2
64°	2166.0	2704.6	3869.9	5715.8	7841.4	7859.4	6161.6	4056.8	2830.2	2166.0	2113.7
65°	1657.4	2157.1	3410.6	5620.0	7748.7	7759.2	5916.2	3503.4	2151.1	1537.8	1480.9
67.5°	659.7	918.5	1850.4	4261.8	6653.7	6625.3	4221.4	1694.8	822.7	535.5	525.1
70°	281.2	350.0	649.2	2019.4	4454.7	4372.5	1817.5	550.5	305.2	255.8	254.3
72.5°	193.0	213.9	278.2	623.8	1851.9	1808.5	517.6	255.8	207.9	191.5	191.5
75°	155.6	170.5	201.9	261.8	490.7	472.7	243.8	188.5	166.0	154.1	152.6
77.5°	121.2	136.1	158.6	181.0	224.4	222.9	163.1	142.1	128.6	119.7	116.7
80°	95.7	110.7	125.7	128.6	146.6	143.6	110.7	112.2	104.7	86.8	85.3
82.5°	65.8	89.8	100.2	91.2	86.8	86.8	79.3	79.3	73.3	53.9	49.4
85°	40.4	59.8	62.8	53.9	40.4	40.4	43.4	41.9	38.9	28.4	26.9
87.5°	20.9	28.4	25.4	20.9	13.5	13.5	12.0	9.0	9.0	7.5	7.5
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)