

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: P479054

Luminaire Tested: **IFLD-S-SA3B-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479054
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

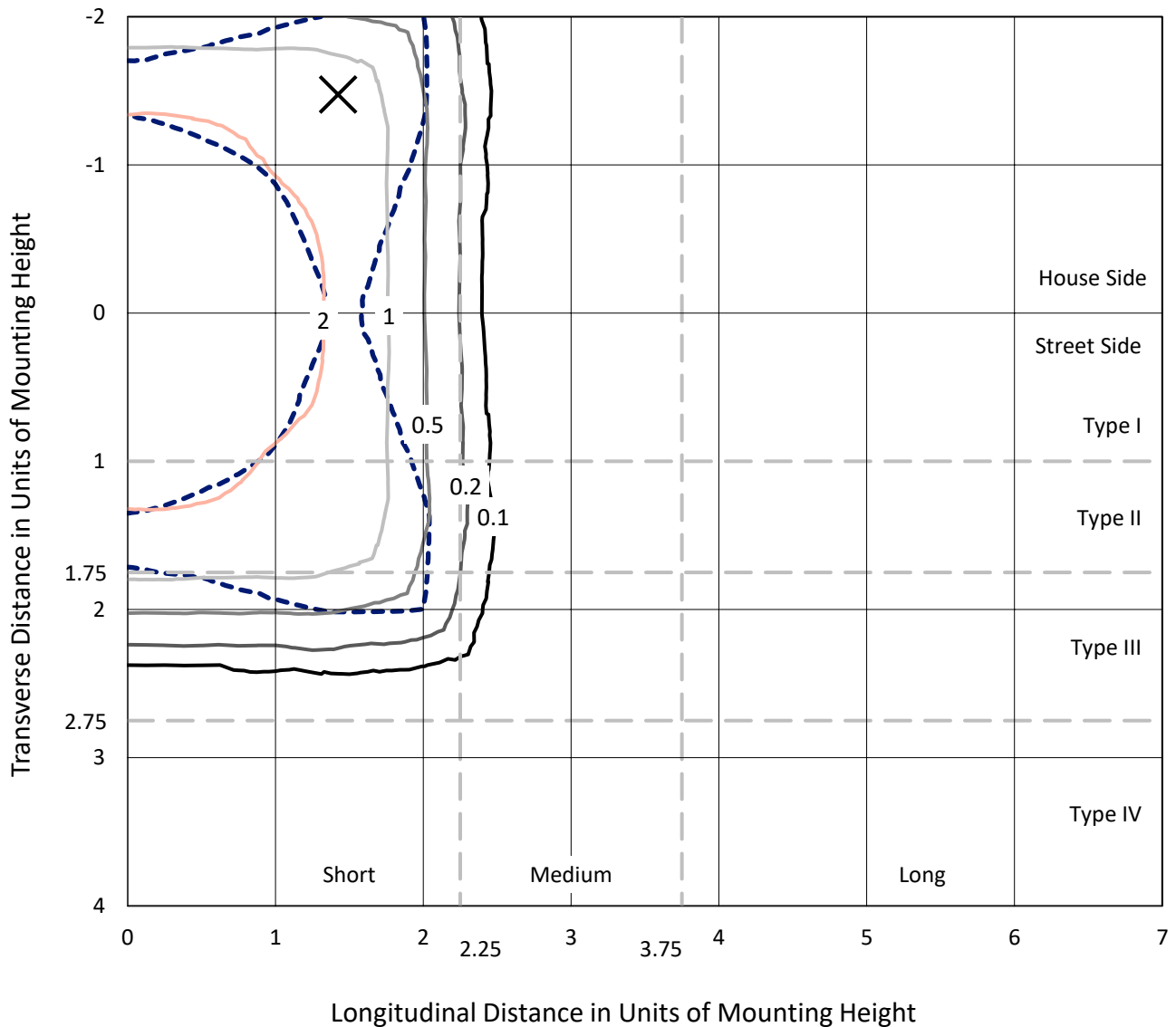
Lumens per Lamp: N/A
Luminaire Lumens: 12475.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4
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

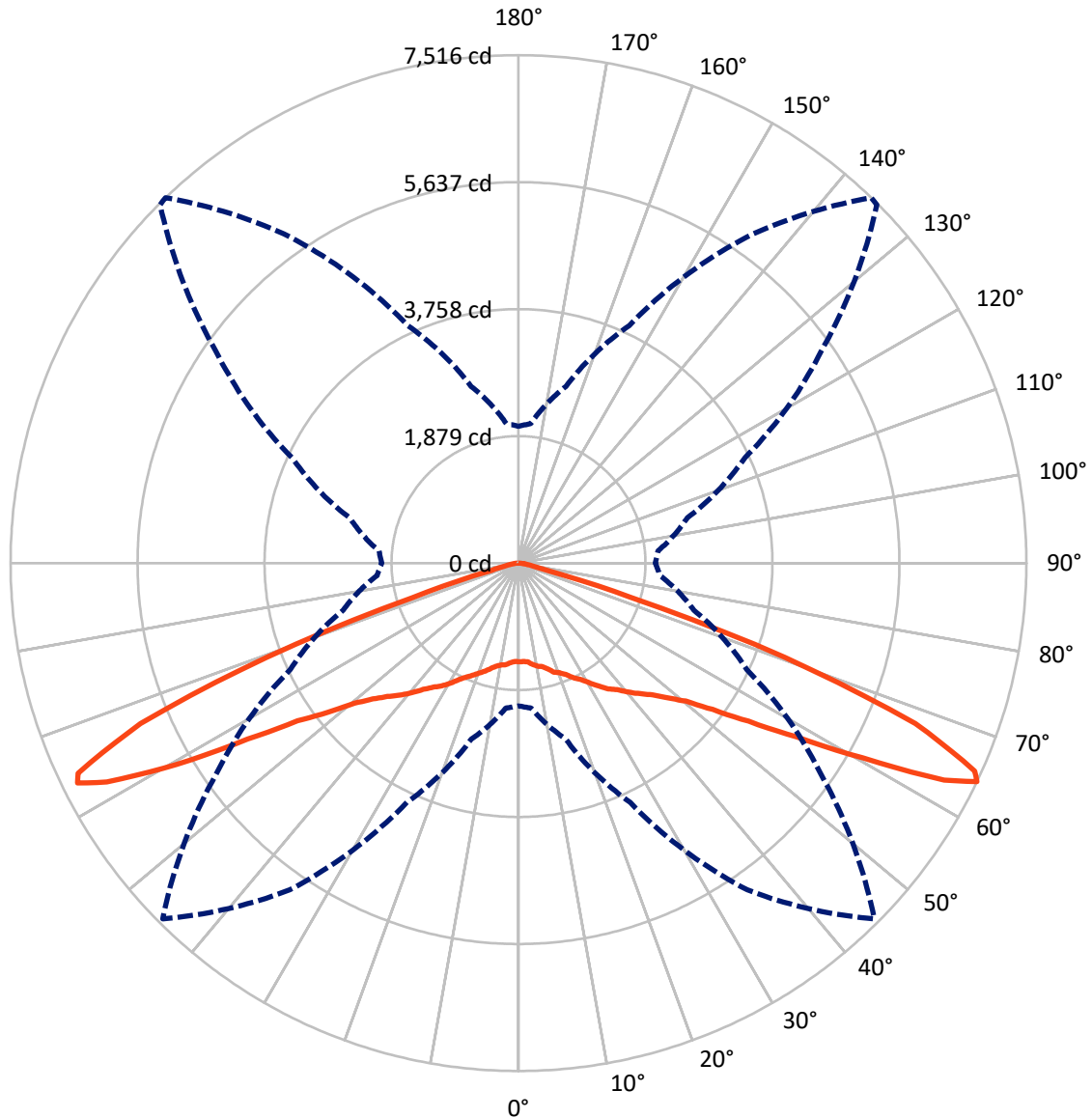
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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	6243.7	0.0	6243.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6231.8	0.0	6231.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12475.5	0.0	12475.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	1.2
10°-20°	462.6	3.7
20°-30°	869.3	7.0
30°-40°	1433.7	11.5
40°-50°	2242.2	18.0
50°-60°	3622.8	29.0
60°-70°	3262.1	26.1
70°-80°	386.4	3.1
80°-90°	52.9	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°	12475.5	100.0
0°-180°	12475.5	100.0

Coefficient of Utilization



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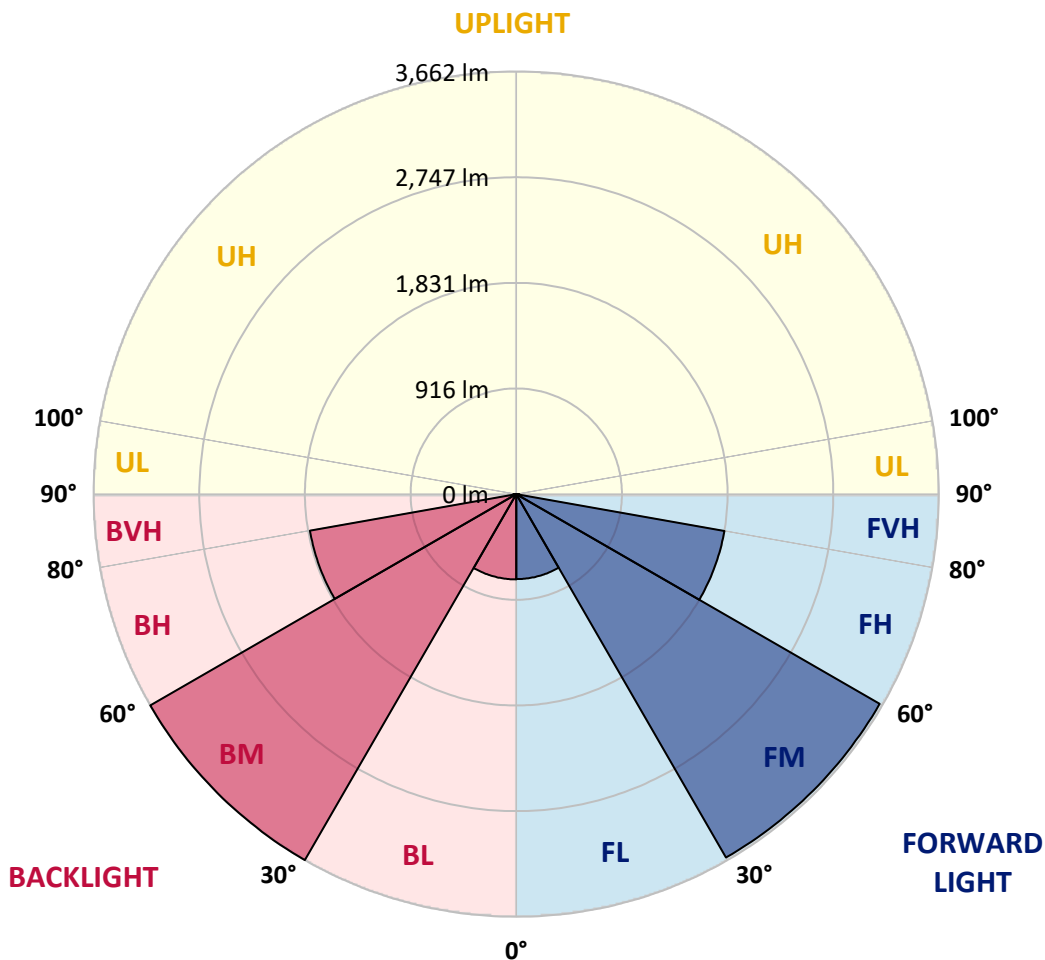
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.3	5.9			
FM (30°-60°)	3636.2	29.1			
FH (60°-80°)	1832.2	14.7			G2/5000
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	739.1	5.9	B2/1000		
BM (30°-60°)	3662.5	29.4	B3/5000		
BH (60°-80°)	1816.4	14.6	B3/2500		G2/5000
BVH (80°-90°)	25.8	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°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1443.5	1446.3	1472.1	1462.1	1470.6	1454.9	1466.3	1490.7	1462.1	1483.5	1490.7
5°	1459.2	1463.5	1463.5	1473.5	1479.2	1476.4	1483.5	1473.5	1500.7	1489.2	1506.4
7.5°	1516.4	1509.3	1497.8	1506.4	1507.8	1515.0	1522.1	1535.0	1530.7	1520.7	1537.9
10°	1526.4	1520.7	1537.9	1539.3	1532.2	1526.4	1533.6	1533.6	1546.5	1549.3	1549.3
12.5°	1543.6	1549.3	1547.9	1559.3	1560.8	1556.5	1567.9	1589.4	1583.7	1587.9	1577.9
15°	1609.4	1602.3	1600.8	1612.3	1630.9	1603.7	1623.7	1622.3	1616.6	1625.1	1602.3
17.5°	1666.6	1643.7	1653.8	1672.4	1665.2	1670.9	1696.7	1673.8	1679.5	1669.5	1662.3
20°	1716.7	1698.1	1699.5	1706.7	1706.7	1723.9	1733.9	1725.3	1719.6	1718.1	1721.0
22.5°	1772.5	1751.0	1752.5	1782.5	1792.5	1786.8	1779.6	1794.0	1796.8	1785.4	1798.2
25°	1814.0	1836.9	1844.0	1858.3	1836.9	1852.6	1846.9	1874.1	1891.2	1868.3	1884.1
27.5°	1922.7	1912.7	1931.3	1929.9	1947.0	1931.3	1941.3	1949.9	1957.0	1958.5	1951.3
30°	2020.0	2024.3	2005.7	2055.7	2015.7	2041.4	2058.6	2062.9	2071.5	2071.5	2050.0
32.5°	2123.0	2114.4	2144.4	2133.0	2125.8	2145.9	2127.3	2185.9	2151.6	2171.6	2147.3
35°	2238.9	2238.9	2250.3	2281.8	2238.9	2226.0	2260.3	2284.6	2284.6	2248.9	2257.5
37.5°	2369.0	2357.6	2371.9	2412.0	2379.1	2336.1	2399.1	2409.1	2401.9	2391.9	2374.8
40°	2460.6	2457.7	2486.4	2539.3	2492.1	2483.5	2494.9	2522.1	2530.7	2540.7	2517.8
42.5°	2615.1	2628.0	2711.0	2698.1	2659.5	2629.4	2626.6	2728.1	2703.8	2678.1	2665.2
45°	2844.0	2832.6	2875.5	2876.9	2826.8	2761.0	2775.3	2868.3	2909.8	2852.6	2874.0
47.5°	3025.7	3031.4	3061.4	3123.0	3007.1	2938.4	2991.3	3141.6	3128.7	3107.2	3127.3
50°	3268.9	3294.6	3389.1	3367.6	3264.6	3180.2	3296.1	3437.7	3453.4	3374.7	3360.4
52.5°	3605.1	3645.1	3696.6	3713.8	3615.1	3585.0	3592.2	3768.2	3729.5	3653.7	3605.1
55°	3899.8	3918.4	4012.8	4154.4	4147.3	4002.8	4085.7	4151.6	3994.2	3838.3	3851.1
57.5°	4025.7	4034.2	4297.5	4580.7	4749.5	4782.4	4688.0	4466.3	4091.5	3791.0	3772.4
60°	3712.4	3793.9	4111.5	4751.0	5522.1	5902.6	5274.6	4502.0	3864.0	3499.2	3472.0
62.5°	2967.0	2971.3	3443.4	4413.3	6002.7	6999.8	5499.2	4165.9	3257.4	2844.0	2735.3
64°	2113.0	2153.0	2695.2	3906.9	5902.6	7446.2	5472.0	3726.7	2685.2	2098.7	2022.8
65°	1516.4	1572.2	2095.8	3391.9	5668.0	7393.3	5390.4	3349.0	2171.6	1602.3	1525.0
67.5°	557.9	580.8	822.6	1696.7	4070.0	6300.3	4271.7	1841.2	954.2	679.5	610.9
70°	258.9	260.4	304.7	560.8	1779.6	4213.1	2038.6	691.0	359.1	284.7	264.7
72.5°	190.3	194.6	213.2	258.9	523.6	1783.9	669.5	283.3	210.3	186.0	181.7
75°	154.5	157.4	163.1	187.4	241.8	477.8	271.8	196.0	167.4	150.2	144.5
77.5°	118.7	118.7	131.6	143.1	160.2	223.2	180.3	155.9	135.9	118.7	114.4
80°	85.8	87.3	103.0	111.6	108.7	147.4	130.2	128.8	111.6	93.0	85.8
82.5°	50.1	54.4	74.4	80.1	77.3	87.3	94.4	100.1	87.3	64.4	58.7
85°	28.6	30.0	42.9	44.3	44.3	41.5	54.4	60.1	58.7	40.1	35.8
87.5°	8.6	8.6	11.4	11.4	12.9	14.3	21.5	25.8	28.6	20.0	18.6
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°	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6	1460.6
2.5°	1483.5	1462.1	1463.5	1469.2	1450.6	1457.8	1479.2	1463.5	1459.2	1450.6	1446.3
5°	1476.4	1499.3	1490.7	1493.5	1489.2	1469.2	1466.3	1479.2	1486.4	1473.5	1499.3
7.5°	1526.4	1516.4	1505.0	1509.3	1499.3	1516.4	1527.9	1502.1	1515.0	1507.8	1493.5
10°	1555.0	1536.4	1545.0	1542.2	1535.0	1552.2	1540.7	1537.9	1526.4	1510.7	1533.6
12.5°	1565.1	1586.5	1600.8	1576.5	1580.8	1572.2	1565.1	1565.1	1552.2	1547.9	1552.2
15°	1609.4	1628.0	1622.3	1640.9	1616.6	1625.1	1633.7	1612.3	1623.7	1592.2	1616.6
17.5°	1690.9	1675.2	1695.2	1670.9	1679.5	1696.7	1669.5	1669.5	1678.1	1660.9	1639.4
20°	1742.5	1735.3	1728.1	1729.6	1715.3	1731.0	1722.4	1718.1	1705.3	1711.0	1722.4
22.5°	1791.1	1781.1	1783.9	1788.2	1798.2	1791.1	1786.8	1791.1	1759.6	1788.2	1748.2
25°	1851.2	1878.4	1869.8	1888.4	1859.8	1878.4	1876.9	1849.7	1866.9	1855.5	1846.9
27.5°	1951.3	1937.0	1949.9	1927.0	1947.0	1948.5	1931.3	1977.1	1957.0	1954.2	1948.5
30°	2080.1	2070.1	2061.5	2048.6	2064.3	2051.5	2065.8	2070.1	2051.5	2037.2	2010.0
32.5°	2153.0	2180.2	2190.2	2158.8	2160.2	2167.3	2154.5	2141.6	2153.0	2157.3	2153.0
35°	2256.0	2281.8	2287.5	2263.2	2250.3	2286.1	2260.3	2303.2	2266.0	2267.5	2228.8
37.5°	2376.2	2383.4	2432.0	2404.8	2393.4	2376.2	2423.4	2417.7	2426.3	2357.6	2391.9
40°	2512.1	2537.9	2565.0	2496.4	2494.9	2510.7	2507.8	2540.7	2525.0	2515.0	2490.6
42.5°	2660.9	2715.2	2719.5	2673.8	2645.1	2642.3	2656.6	2729.6	2731.0	2665.2	2636.6
45°	2858.3	2918.4	2902.7	2814.0	2782.5	2778.2	2848.3	2879.8	2906.9	2881.2	2856.9
47.5°	3104.4	3144.4	3133.0	3051.4	2949.9	2978.5	3047.1	3145.9	3117.2	3082.9	3054.3
50°	3367.6	3414.8	3390.5	3308.9	3211.7	3211.7	3296.1	3422.0	3413.4	3346.1	3320.4
52.5°	3659.4	3728.1	3783.9	3668.0	3586.5	3599.3	3732.4	3778.2	3756.7	3709.5	3688.0
55°	3876.9	4008.5	4122.9	4128.7	4133.0	4131.5	4165.9	4211.6	4058.6	3982.7	3905.5
57.5°	3823.9	4072.9	4464.9	4730.9	4809.6	4851.1	4839.7	4627.9	4266.0	4017.1	4042.8
60°	3446.3	3852.6	4484.9	5338.9	5911.2	5853.9	5645.1	4808.2	4151.6	3731.0	3678.0
62.5°	2749.6	3238.8	4148.7	5510.6	7087.1	7069.9	5977.0	4391.9	3459.2	2927.0	2894.1
64°	2071.5	2586.5	3700.9	5466.3	7499.1	7516.3	5892.6	3879.7	2706.7	2071.5	2021.4
65°	1585.1	2062.9	3261.7	5374.7	7410.4	7420.4	5658.0	3350.4	2057.2	1470.6	1416.3
67.5°	630.9	878.4	1769.6	4075.7	6363.2	6336.1	4037.1	1620.9	786.8	512.1	502.1
70°	268.9	334.8	620.9	1931.3	4260.3	4181.6	1738.2	526.5	291.8	244.6	243.2
72.5°	184.5	204.6	266.1	596.6	1771.1	1729.6	495.0	244.6	198.9	183.1	183.1
75°	148.8	163.1	193.1	250.4	469.2	452.1	233.2	180.3	158.8	147.4	145.9
77.5°	115.9	130.2	151.6	173.1	214.6	213.2	155.9	135.9	123.0	114.4	111.6
80°	91.6	105.9	120.2	123.0	140.2	137.3	105.9	107.3	100.1	83.0	81.5
82.5°	62.9	85.8	95.8	87.3	83.0	83.0	75.8	75.8	70.1	51.5	47.2
85°	38.6	57.2	60.1	51.5	38.6	38.6	41.5	40.1	37.2	27.2	25.8
87.5°	20.0	27.2	24.3	20.0	12.9	12.9	11.4	8.6	8.6	7.2	7.2
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)