

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: P478858

Luminaire Tested: **IFLD-S-SA3A-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

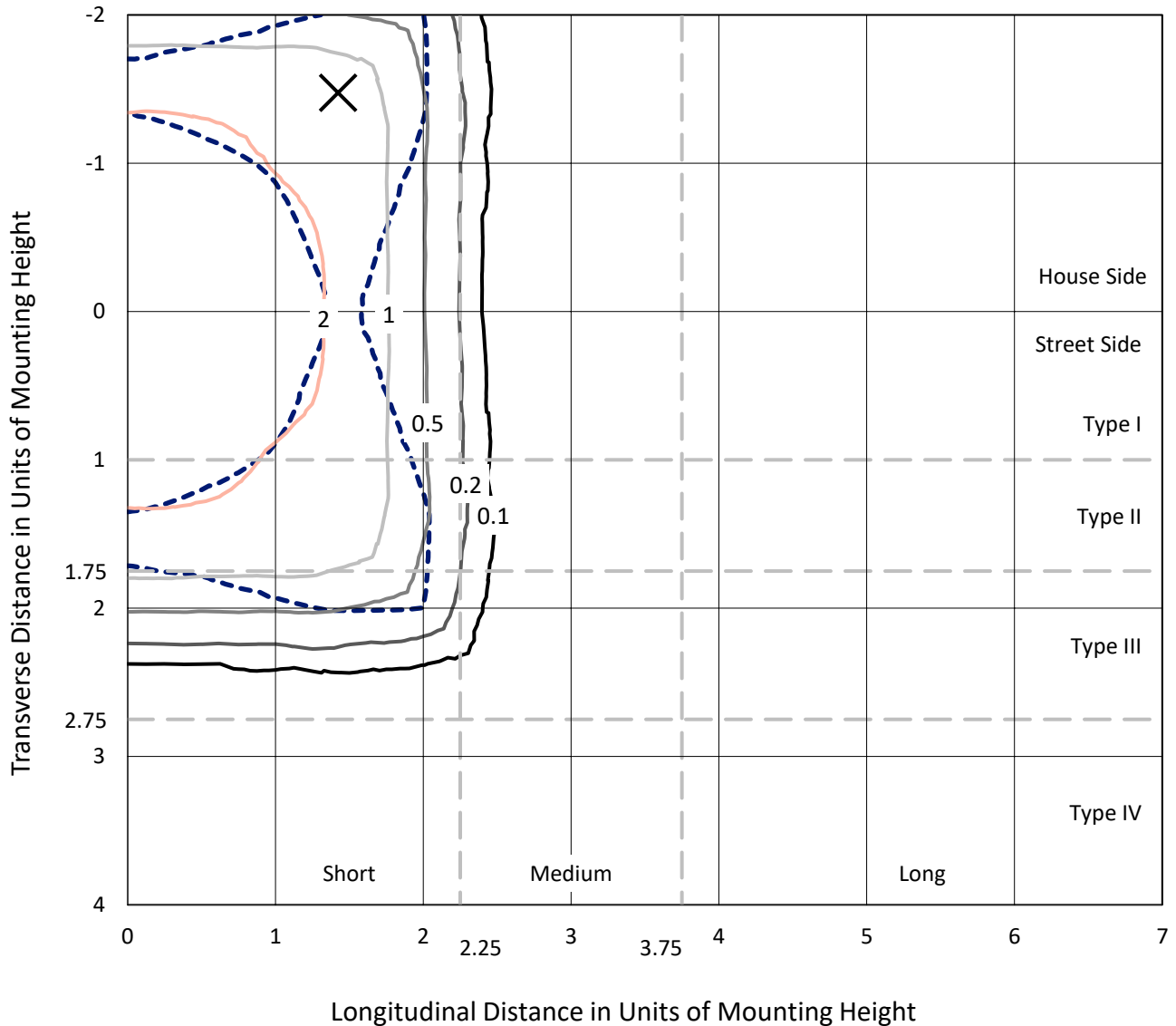
Lumens per Lamp: N/A
Luminaire Lumens: 12495.6 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 94.8
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

REPORT NUMBER: P478858
 CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

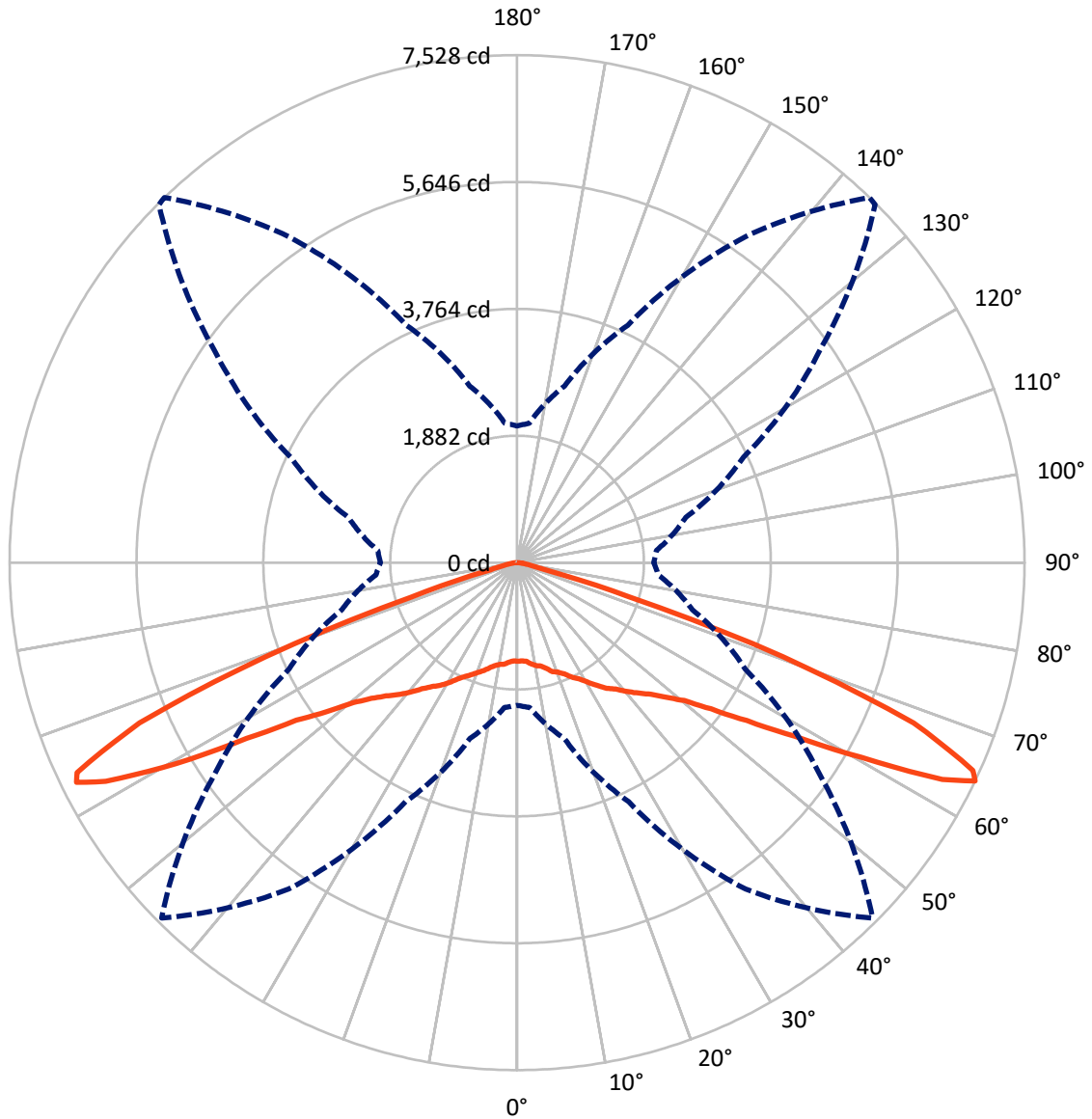
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P478858
CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478858

CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6253.8	0.0	6253.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6241.8	0.0	6241.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12495.6	0.0	12495.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.2
10°-20°	463.3	3.7
20°-30°	870.7	7.0
30°-40°	1436.0	11.5
40°-50°	2245.8	18.0
50°-60°	3628.7	29.0
60°-70°	3267.4	26.1
70°-80°	387.0	3.1
80°-90°	53.0	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°	12495.6	100.0
0°-180°	12495.6	100.0

Coefficient of Utilization



REPORT NUMBER: P478858

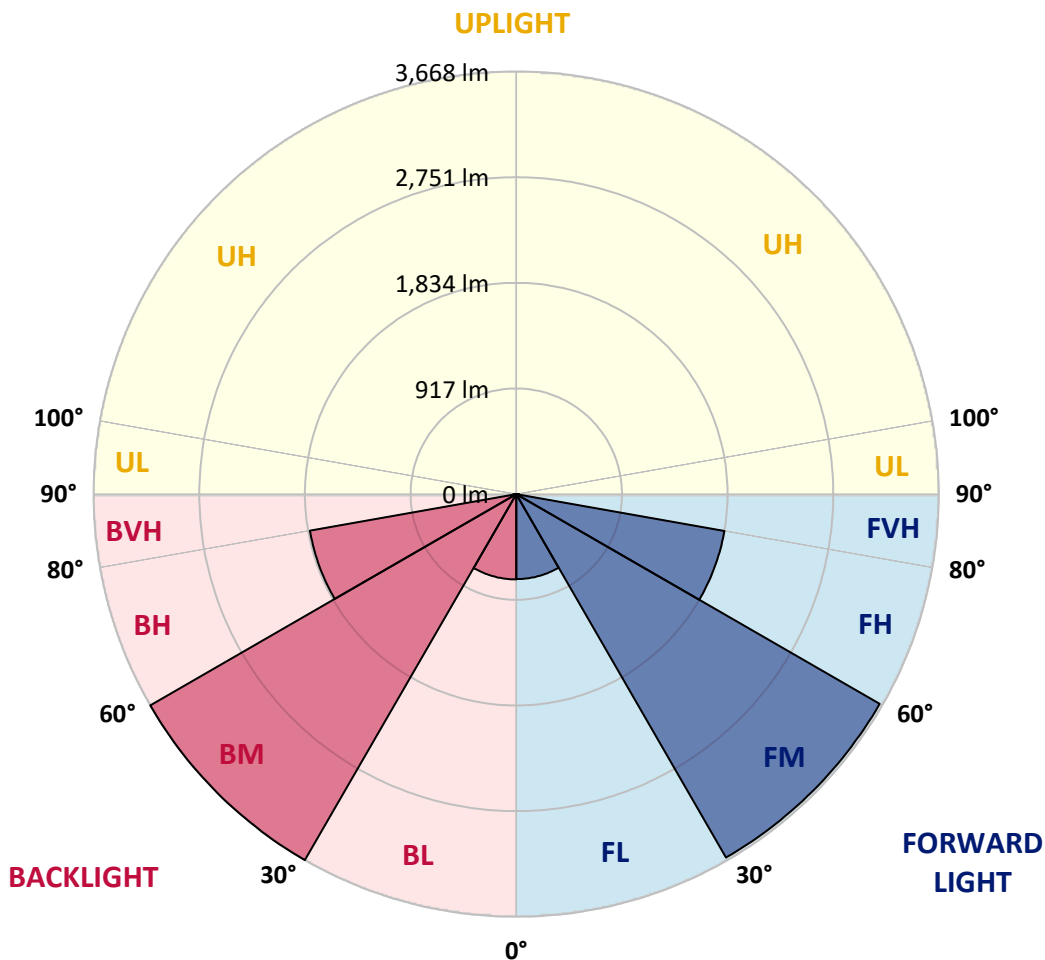
CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.5	5.9			
FM (30°-60°)	3642.1	29.1			
FH (60°-80°)	1835.1	14.7			G2/5000
FVH (80°-90°)	27.2	0.2			G1/100
BL (0°-30°)	740.3	5.9	B2/1000		
BM (30°-60°)	3668.4	29.4	B3/5000		
BH (60°-80°)	1819.3	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





REPORT NUMBER: P478858

CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1445.8	1448.6	1474.4	1464.4	1473.0	1457.2	1468.7	1493.1	1464.4	1485.9	1493.1
5°	1461.5	1465.8	1465.8	1475.9	1481.6	1478.7	1485.9	1475.9	1503.1	1491.6	1508.8
7.5°	1518.9	1511.7	1500.2	1508.8	1510.3	1517.4	1524.6	1537.5	1533.2	1523.2	1540.4
10°	1528.9	1523.2	1540.4	1541.8	1534.6	1528.9	1536.1	1536.1	1549.0	1551.8	1551.8
12.5°	1546.1	1551.8	1550.4	1561.8	1563.3	1559.0	1570.4	1591.9	1586.2	1590.5	1580.5
15°	1612.0	1604.8	1603.4	1614.9	1633.5	1606.3	1626.3	1624.9	1619.2	1627.8	1604.8
17.5°	1669.3	1646.4	1656.4	1675.0	1667.9	1673.6	1699.4	1676.5	1682.2	1672.2	1665.0
20°	1719.5	1700.8	1702.3	1709.4	1709.4	1726.6	1736.7	1728.1	1722.3	1720.9	1723.8
22.5°	1775.3	1753.9	1755.3	1785.4	1795.4	1789.7	1782.5	1796.8	1799.7	1788.2	1801.1
25°	1816.9	1839.8	1847.0	1861.3	1839.8	1855.6	1849.9	1877.1	1894.3	1871.4	1887.1
27.5°	1925.8	1915.8	1934.4	1933.0	1950.2	1934.4	1944.4	1953.0	1960.2	1961.6	1954.5
30°	2023.2	2027.5	2008.9	2059.1	2018.9	2044.7	2061.9	2066.2	2074.8	2074.8	2053.3
32.5°	2126.4	2117.8	2147.9	2136.4	2129.3	2149.3	2130.7	2189.5	2155.1	2175.1	2150.8
35°	2242.5	2242.5	2253.9	2285.5	2242.5	2229.6	2264.0	2288.3	2288.3	2252.5	2261.1
37.5°	2372.9	2361.4	2375.7	2415.8	2382.9	2339.9	2403.0	2413.0	2405.8	2395.8	2378.6
40°	2464.6	2461.7	2490.4	2543.4	2496.1	2487.5	2499.0	2526.2	2534.8	2544.8	2521.9
42.5°	2619.3	2632.2	2715.3	2702.4	2663.7	2633.6	2630.8	2732.5	2708.2	2682.4	2669.5
45°	2848.6	2837.1	2880.1	2881.5	2831.4	2765.5	2779.8	2872.9	2914.5	2857.2	2878.7
47.5°	3030.6	3036.3	3066.4	3128.0	3011.9	2943.2	2996.2	3146.6	3133.7	3112.2	3132.3
50°	3274.1	3299.9	3394.5	3373.0	3269.9	3185.3	3301.4	3443.2	3459.0	3380.2	3365.9
52.5°	3610.9	3651.0	3702.6	3719.8	3620.9	3590.8	3598.0	3774.2	3735.5	3659.6	3610.9
55°	3906.1	3924.7	4019.3	4161.1	4153.9	4009.2	4092.3	4158.2	4000.6	3844.4	3857.3
57.5°	4032.1	4040.7	4304.4	4588.1	4757.2	4790.1	4695.6	4473.5	4098.1	3797.2	3778.5
60°	3718.3	3800.0	4118.1	4758.6	5530.9	5912.1	5283.1	4509.3	3870.2	3504.8	3477.6
62.5°	2971.8	2976.1	3449.0	4420.5	6012.4	7011.1	5508.0	4172.6	3262.7	2848.6	2739.7
64°	2116.4	2156.5	2699.6	3913.2	5912.1	7458.2	5480.8	3732.7	2689.5	2102.0	2026.1
65°	1518.9	1574.7	2099.2	3397.4	5677.1	7405.2	5399.1	3354.4	2175.1	1604.8	1527.5
67.5°	558.8	581.8	823.9	1699.4	4076.6	6310.4	4278.6	1844.1	955.7	680.6	611.8
70°	259.4	260.8	305.2	561.7	1782.5	4219.9	2041.9	692.1	359.7	285.1	265.1
72.5°	190.6	194.9	213.5	259.4	524.4	1786.8	670.6	283.7	210.6	186.3	182.0
75°	154.8	157.6	163.3	187.7	242.2	478.6	272.2	196.3	167.6	150.5	144.7
77.5°	118.9	118.9	131.8	143.3	160.5	223.5	180.5	156.2	136.1	118.9	114.6
80°	86.0	87.4	103.2	111.8	108.9	147.6	130.4	129.0	111.8	93.1	86.0
82.5°	50.2	54.4	74.5	80.2	77.4	87.4	94.6	100.3	87.4	64.5	58.7
85°	28.7	30.1	43.0	44.4	44.4	41.6	54.4	60.2	58.7	40.1	35.8
87.5°	8.6	8.6	11.5	11.5	12.9	14.3	21.5	25.8	28.7	20.1	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



REPORT NUMBER: P478858
 CATALOG NUMBER: IFLD-S-SA3A-730-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0	1463.0
2.5°	1485.9	1464.4	1465.8	1471.6	1452.9	1460.1	1481.6	1465.8	1461.5	1452.9	1448.6
5°	1478.7	1501.7	1493.1	1495.9	1491.6	1471.6	1468.7	1481.6	1488.8	1475.9	1501.7
7.5°	1528.9	1518.9	1507.4	1511.7	1501.7	1518.9	1530.3	1504.5	1517.4	1510.3	1495.9
10°	1557.5	1538.9	1547.5	1544.7	1537.5	1554.7	1543.2	1540.4	1528.9	1513.1	1536.1
12.5°	1567.6	1589.1	1603.4	1579.0	1583.3	1574.7	1567.6	1567.6	1554.7	1550.4	1554.7
15°	1612.0	1630.6	1624.9	1643.5	1619.2	1627.8	1636.4	1614.9	1626.3	1594.8	1619.2
17.5°	1693.7	1677.9	1698.0	1673.6	1682.2	1699.4	1672.2	1672.2	1680.8	1663.6	1642.1
20°	1745.3	1738.1	1730.9	1732.4	1718.0	1733.8	1725.2	1720.9	1708.0	1713.7	1725.2
22.5°	1794.0	1783.9	1786.8	1791.1	1801.1	1794.0	1789.7	1794.0	1762.5	1791.1	1751.0
25°	1854.2	1881.4	1872.8	1891.4	1862.8	1881.4	1879.9	1852.7	1869.9	1858.5	1849.9
27.5°	1954.5	1940.1	1953.0	1930.1	1950.2	1951.6	1934.4	1980.3	1960.2	1957.3	1951.6
30°	2083.4	2073.4	2064.8	2051.9	2067.7	2054.8	2069.1	2073.4	2054.8	2040.4	2013.2
32.5°	2156.5	2183.7	2193.8	2162.2	2163.7	2170.8	2157.9	2145.0	2156.5	2160.8	2156.5
35°	2259.7	2285.5	2291.2	2266.8	2253.9	2289.8	2264.0	2306.9	2269.7	2271.1	2232.4
37.5°	2380.0	2387.2	2435.9	2408.7	2397.2	2380.0	2427.3	2421.6	2430.2	2361.4	2395.8
40°	2516.2	2541.9	2569.2	2500.4	2499.0	2514.7	2511.9	2544.8	2529.0	2519.0	2494.7
42.5°	2665.2	2719.6	2723.9	2678.1	2649.4	2646.5	2660.9	2733.9	2735.4	2669.5	2640.8
45°	2862.9	2923.1	2907.3	2818.5	2787.0	2782.7	2852.9	2884.4	2911.6	2885.8	2861.5
47.5°	3109.4	3149.5	3138.0	3056.3	2954.6	2983.3	3052.1	3150.9	3122.3	3087.9	3059.2
50°	3373.0	3420.3	3395.9	3314.3	3216.8	3216.8	3301.4	3427.5	3418.9	3351.5	3325.7
52.5°	3665.3	3734.1	3790.0	3673.9	3592.2	3605.1	3738.4	3784.3	3762.8	3715.5	3694.0
55°	3883.1	4015.0	4129.6	4135.3	4139.6	4138.2	4172.6	4218.4	4065.1	3989.2	3911.8
57.5°	3830.1	4079.4	4472.0	4738.6	4817.4	4858.9	4847.5	4635.4	4272.9	4023.5	4049.3
60°	3451.8	3858.8	4492.1	5347.5	5920.7	5863.4	5654.2	4815.9	4158.2	3737.0	3684.0
62.5°	2754.0	3244.1	4155.4	5519.5	7098.5	7081.3	5986.6	4399.0	3464.7	2931.7	2898.7
64°	2074.8	2590.7	3706.9	5475.1	7511.2	7528.4	5902.1	3886.0	2711.0	2074.8	2024.7
65°	1587.6	2066.2	3267.0	5383.4	7422.4	7432.4	5667.1	3355.8	2060.5	1473.0	1418.6
67.5°	631.9	879.8	1772.5	4082.3	6373.5	6346.3	4043.6	1623.5	788.1	513.0	502.9
70°	269.4	335.3	621.9	1934.4	4267.1	4188.3	1741.0	527.3	292.3	245.0	243.6
72.5°	184.8	204.9	266.5	597.5	1773.9	1732.4	495.8	245.0	199.2	183.4	183.4
75°	149.0	163.3	193.4	250.8	470.0	452.8	233.6	180.5	159.1	147.6	146.2
77.5°	116.1	130.4	151.9	173.4	214.9	213.5	156.2	136.1	123.2	114.6	111.8
80°	91.7	106.0	120.4	123.2	140.4	137.6	106.0	107.5	100.3	83.1	81.7
82.5°	63.0	86.0	96.0	87.4	83.1	83.1	75.9	75.9	70.2	51.6	47.3
85°	38.7	57.3	60.2	51.6	38.7	38.7	41.6	40.1	37.3	27.2	25.8
87.5°	20.1	27.2	24.4	20.1	12.9	12.9	11.5	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)