

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: P478504

Luminaire Tested: **IFLD-S-SA2C-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478504
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

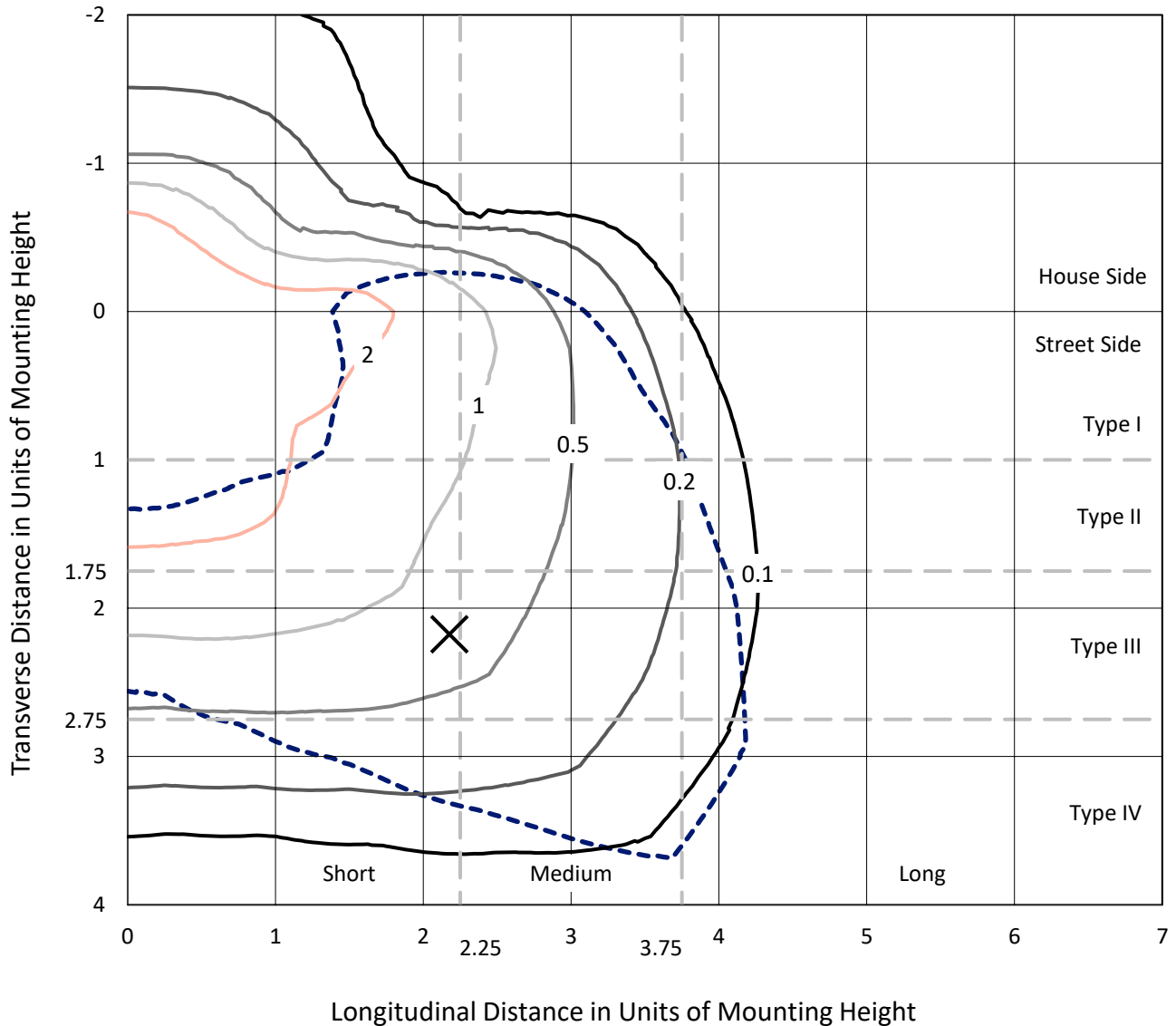
Lumens per Lamp: N/A
Luminaire Lumens: 14169.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P478504
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

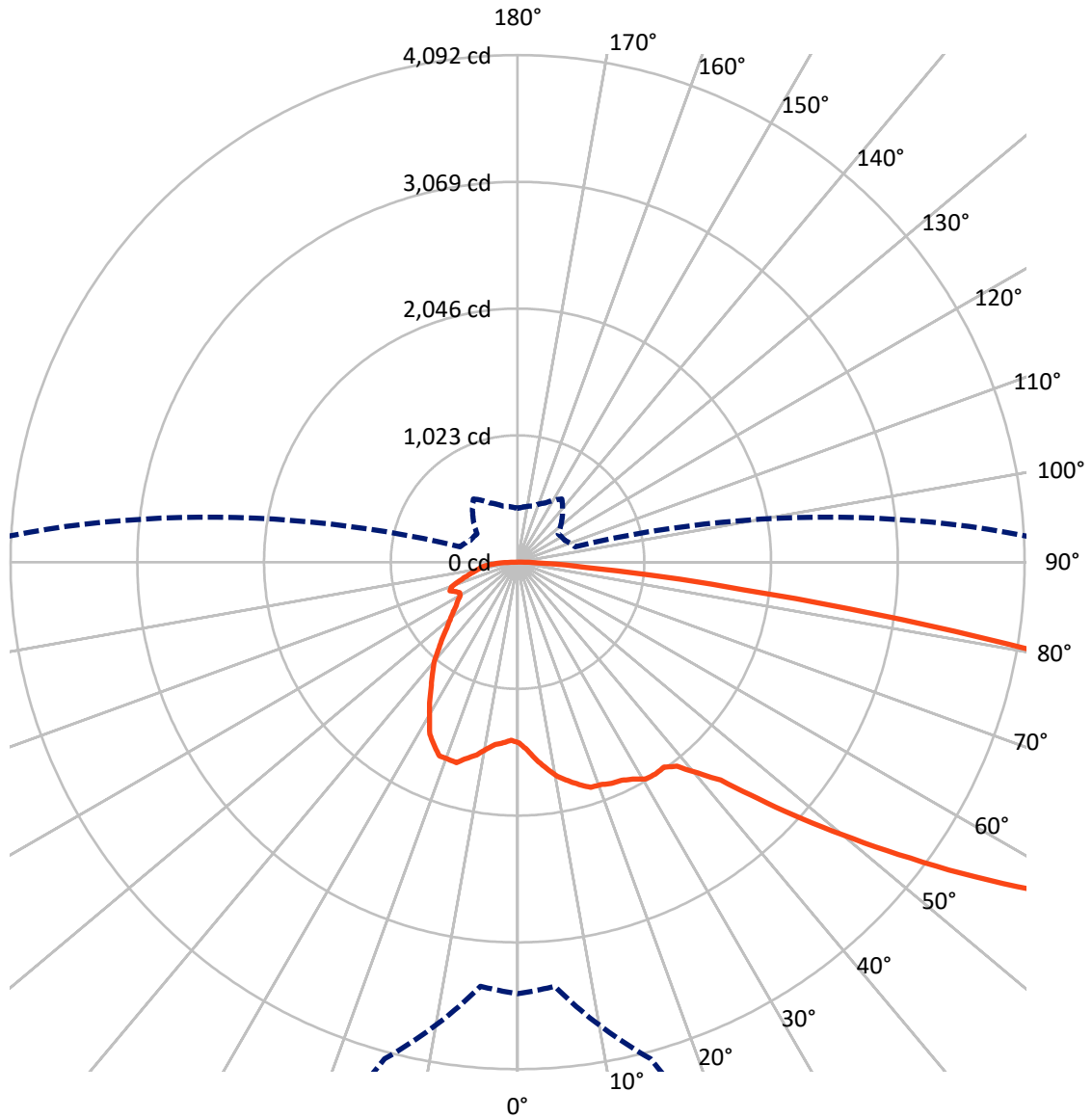
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P478504
CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3154.3	0.0	3154.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	11015.5	0.0	11015.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	14169.8	0.0	14169.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.1
10°-20°	496.8	3.5
20°-30°	839.0	5.9
30°-40°	1161.0	8.2
40°-50°	1660.7	11.7
50°-60°	2678.5	18.9
60°-70°	3950.3	27.9
70°-80°	2868.6	20.2
80°-90°	365.7	2.6
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°	14169.8	100.0
0°-180°	14169.8	100.0

Coefficient of Utilization



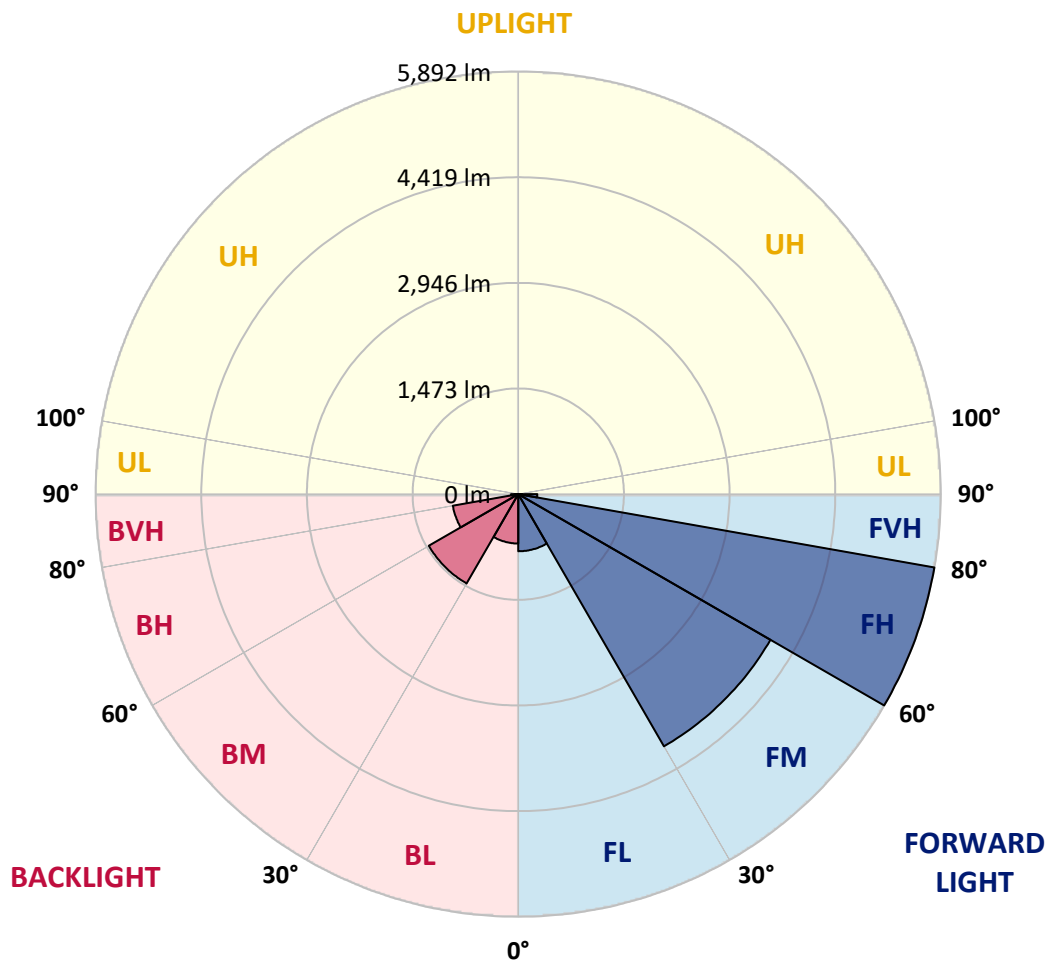
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.4	5.6			
FM (30°-60°)	4060.6	28.7			
FH (60°-80°)	5892.4	41.6			G3/7500
FVH (80°-90°)	266.2	1.9			G3/500
BL (0°-30°)	688.7	4.9	B2/1000		
BM (30°-60°)	1439.5	10.2	B2/2500		
BH (60°-80°)	926.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	99.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P478504

CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1537.2	1546.3	1537.2	1535.6	1520.4	1509.7	1518.8	1505.1	1489.8	1483.7	1469.9
5°	1677.7	1679.3	1662.5	1664.0	1631.9	1598.3	1604.4	1563.1	1518.8	1502.0	1474.5
7.5°	1821.4	1804.6	1780.1	1772.5	1722.0	1685.4	1680.8	1644.1	1575.4	1537.2	1499.0
10°	1914.6	1920.7	1881.0	1847.3	1804.6	1760.2	1758.7	1690.0	1650.2	1593.7	1544.8
12.5°	1997.1	1998.6	1965.0	1911.5	1858.0	1803.0	1810.7	1780.1	1712.9	1659.4	1610.5
15°	2061.3	2052.1	2015.4	1966.5	1910.0	1867.2	1862.6	1836.6	1780.1	1735.8	1654.8
17.5°	2079.6	2075.0	2038.3	1986.4	1931.4	1899.3	1911.5	1868.7	1845.8	1806.1	1728.2
20°	2044.5	2033.8	2027.6	1969.6	1929.9	1926.8	1916.1	1925.3	1887.1	1850.4	1793.9
22.5°	1980.3	1975.7	1972.6	1926.8	1908.5	1922.2	1940.5	1954.3	1948.2	1913.0	1848.9
25°	1914.6	1936.0	1916.1	1894.7	1920.7	1955.8	1951.2	1995.6	1995.6	1984.9	1931.4
27.5°	1960.4	1946.7	1931.4	1920.7	1929.9	1984.9	1981.8	2035.3	2055.1	2035.3	1974.2
30°	2075.0	2061.3	2016.9	1969.6	1957.4	2016.9	2032.2	2079.6	2088.8	2039.9	1987.9
32.5°	2290.5	2282.8	2212.5	2073.5	1998.6	2032.2	2039.9	2093.3	2085.7	2055.1	2033.8
35°	2609.8	2583.8	2486.0	2250.7	2085.7	2052.1	2032.2	2075.0	2104.0	2088.8	2068.9
37.5°	2959.7	2930.7	2810.0	2512.0	2243.1	2105.6	2090.3	2125.4	2159.1	2151.4	2110.2
40°	3294.4	3294.4	3185.9	2839.0	2476.9	2235.5	2238.5	2198.8	2229.3	2215.6	2223.2
42.5°	3624.4	3612.2	3567.9	3222.5	2727.5	2452.4	2403.5	2304.2	2359.2	2354.6	2365.3
45°	3959.0	3949.9	3937.6	3580.1	3086.5	2745.8	2719.8	2541.1	2591.5	2570.1	2615.9
47.5°	4226.4	4237.1	4237.1	3978.9	3470.1	3137.0	3098.8	2816.1	2912.4	2923.0	2933.7
50°	4454.1	4458.7	4454.1	4359.4	3897.9	3584.7	3506.7	3219.5	3315.7	3399.8	3497.6
52.5°	4768.9	4775.0	4753.6	4716.9	4478.5	4055.3	3968.2	3648.8	3846.0	3934.6	4110.3
55°	5157.0	5111.1	5071.4	5098.9	5036.3	4573.3	4483.1	4092.0	4388.4	4506.0	4857.5
57.5°	5228.8	5268.5	5369.4	5587.9	5678.0	5077.5	5025.6	4635.9	5001.1	5103.5	5690.2
60°	5482.4	5416.7	5664.3	6137.9	6238.8	5734.6	5681.1	5231.8	5610.8	5717.7	6458.8
62.5°	5649.0	5645.9	6012.6	6574.9	6804.1	6416.0	6307.6	6006.5	6269.4	6373.3	7296.2
65°	5600.1	5644.4	6295.3	6831.7	7276.3	7190.7	7128.1	6672.7	7019.6	7010.4	7841.7
67.5°	5153.9	5279.2	6116.6	7016.5	7979.2	8135.0	8115.2	7609.4	7629.3	7435.2	8084.6
70°	4535.1	4492.3	5360.2	6824.0	8330.6	9255.0	9250.5	8306.2	8177.8	7528.4	7387.8
72°	3483.8	3436.5	4150.0	5859.8	8145.7	9702.7	9840.3	8789.0	8171.7	7141.8	6102.8
72.5°	3162.9	3121.7	3832.2	5516.1	7941.0	9818.9	9754.7	8807.3	8107.5	6960.0	5700.9
75°	1456.2	1408.8	1914.6	3376.9	6194.5	8700.4	8918.9	8242.0	7080.7	5540.5	3415.1
77.5°	433.9	420.2	615.8	1363.0	3599.9	6409.9	6494.0	6218.9	4943.1	3034.6	1266.7
80°	241.4	243.0	317.8	510.3	1583.0	3705.4	4007.9	3841.4	2424.9	1002.4	421.7
82.5°	134.5	142.1	198.6	302.5	727.3	1700.7	1830.5	1764.8	877.1	470.6	230.7
85°	70.3	73.3	103.9	162.0	412.6	537.9	553.1	592.9	455.3	320.9	123.8
87.5°	27.5	27.5	38.2	67.2	152.8	166.6	149.7	181.8	261.3	207.8	61.1
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: P478504
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1482.2	1469.9	1468.4	1448.5	1454.6	1437.8	1439.4	1436.3	1437.8	1434.8	1427.1
5°	1474.5	1465.3	1439.4	1456.2	1440.9	1462.3	1479.1	1473.0	1477.6	1476.0	1477.6
7.5°	1485.2	1473.0	1469.9	1460.8	1474.5	1483.7	1497.4	1535.6	1532.6	1537.2	1546.3
10°	1517.3	1503.5	1494.4	1508.1	1500.5	1529.5	1544.8	1564.7	1599.8	1601.3	1583.0
12.5°	1579.9	1570.8	1552.4	1555.5	1581.5	1590.6	1599.8	1612.0	1635.0	1630.4	1647.2
15°	1651.8	1631.9	1621.2	1618.1	1624.3	1635.0	1633.4	1645.6	1657.9	1668.6	1664.0
17.5°	1703.7	1677.7	1680.8	1696.1	1694.5	1691.5	1671.6	1665.5	1671.6	1677.7	1674.7
20°	1757.2	1760.2	1737.3	1723.6	1717.5	1686.9	1671.6	1653.3	1635.0	1644.1	1657.9
22.5°	1824.4	1810.7	1777.1	1735.8	1705.2	1686.9	1639.5	1607.4	1607.4	1616.6	1612.0
25°	1900.8	1871.8	1813.7	1738.9	1700.7	1622.7	1589.1	1584.5	1572.3	1586.1	1592.2
27.5°	1960.4	1934.4	1855.0	1728.2	1622.7	1560.1	1540.2	1534.1	1554.0	1555.5	1579.9
30°	1984.9	1977.2	1861.1	1700.7	1543.3	1442.4	1430.2	1457.7	1479.1	1511.2	1512.7
32.5°	2016.9	2020.0	1870.3	1636.5	1439.4	1338.5	1320.2	1353.8	1414.9	1440.9	1460.8
35°	2070.4	2085.7	1862.6	1557.0	1329.4	1233.1	1230.0	1239.2	1298.8	1344.6	1370.6
37.5°	2163.6	2160.6	1861.1	1462.3	1242.3	1141.4	1117.0	1120.0	1159.7	1197.9	1193.4
40°	2288.9	2276.7	1856.5	1338.5	1129.2	1063.5	1022.2	1006.9	1003.9	993.2	996.3
42.5°	2460.1	2435.6	1855.0	1213.2	1026.8	956.5	927.5	887.8	858.7	803.7	806.8
45°	2698.4	2655.7	1815.3	1095.6	926.0	867.9	823.6	794.6	731.9	663.1	663.1
47.5°	3066.7	2927.6	1816.8	965.7	828.2	780.8	750.2	699.8	632.6	577.6	571.5
50°	3609.1	3291.3	1764.8	863.3	748.7	716.6	684.5	626.5	562.3	524.1	528.7
52.5°	4308.9	3833.7	1763.3	771.6	686.1	663.1	628.0	576.1	528.7	504.2	495.1
55°	5143.2	4551.9	1818.3	696.8	621.9	609.7	594.4	551.6	505.8	484.4	482.8
57.5°	5997.4	5253.2	1906.9	643.3	566.9	576.1	565.4	531.7	495.1	470.6	467.6
60°	6756.8	5809.4	1728.2	579.1	518.0	537.9	553.1	524.1	504.2	502.7	492.0
62.5°	7329.8	6047.8	1314.1	530.2	492.0	528.7	569.9	588.3	579.1	591.3	592.9
65°	7539.1	5904.2	904.6	504.2	472.1	550.1	641.8	635.6	582.2	559.2	571.5
67.5°	7245.7	5322.0	670.8	473.7	458.4	594.4	683.0	606.6	525.6	522.6	513.4
70°	6231.2	4510.6	547.0	441.6	435.5	569.9	664.7	562.3	495.1	475.2	466.0
72°	4964.4	3512.9	479.8	418.7	398.8	508.8	621.9	527.2	469.1	444.6	433.9
72.5°	4532.0	3256.2	470.6	408.0	391.2	495.1	600.5	516.5	463.0	441.6	424.8
75°	2486.0	1667.0	414.1	374.4	330.0	427.8	556.2	484.4	437.0	406.4	403.4
77.5°	924.4	646.3	357.6	331.6	285.7	369.8	505.8	459.9	397.3	359.1	351.4
80°	354.5	340.7	291.8	279.6	239.9	323.9	466.0	412.6	337.7	299.5	287.3
82.5°	215.4	198.6	221.6	218.5	183.4	294.9	438.5	386.6	299.5	243.0	235.3
85°	117.7	117.7	154.3	148.2	128.4	235.3	331.6	256.7	189.5	155.9	158.9
87.5°	52.0	61.1	82.5	77.9	70.3	132.9	162.0	136.0	94.7	64.2	68.8
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)