

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: P476555

Luminaire Tested: **IFLD-S-SA2D-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

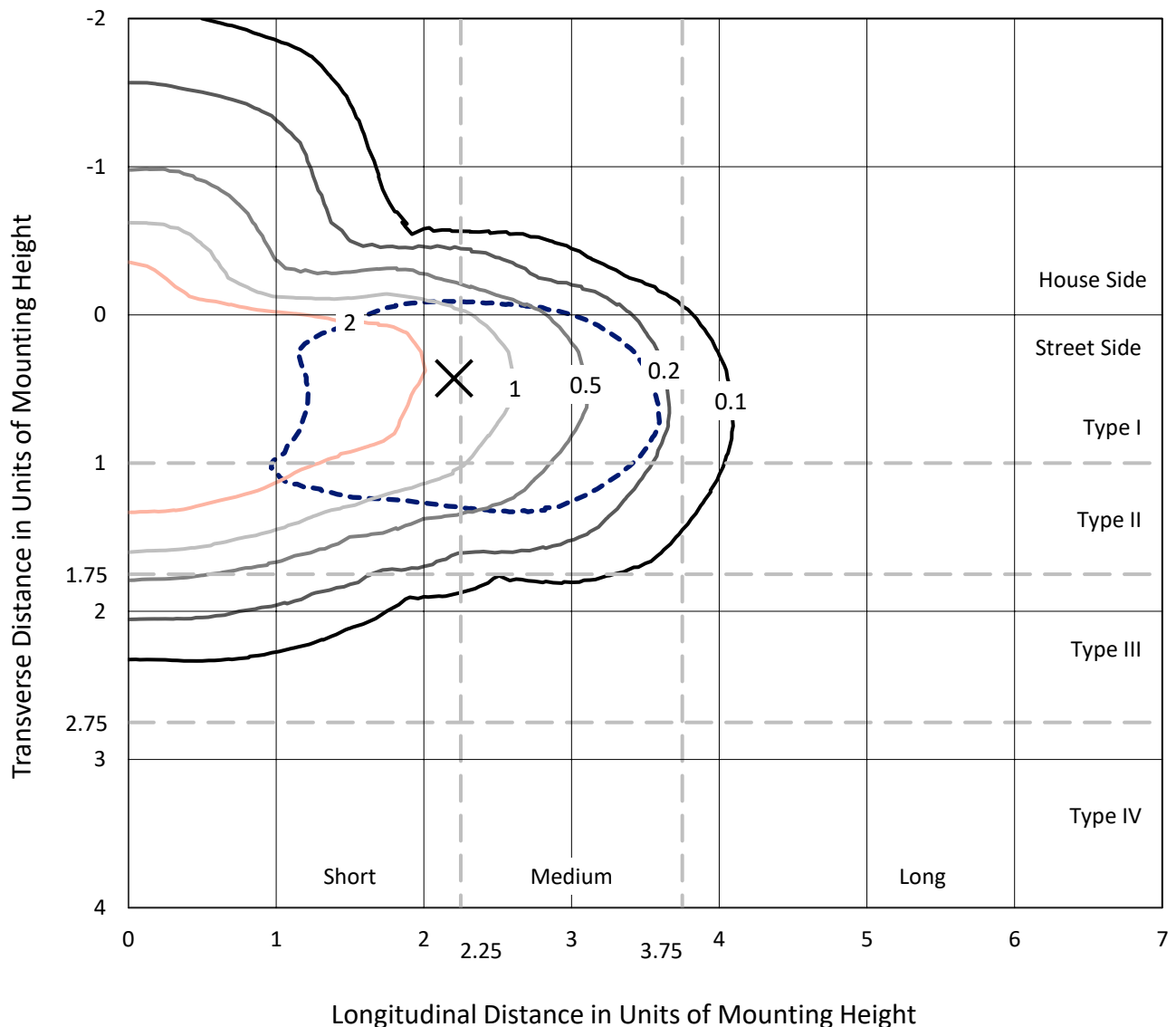
Lumens per Lamp: N/A
Luminaire Lumens: 15406.7 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P476555
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

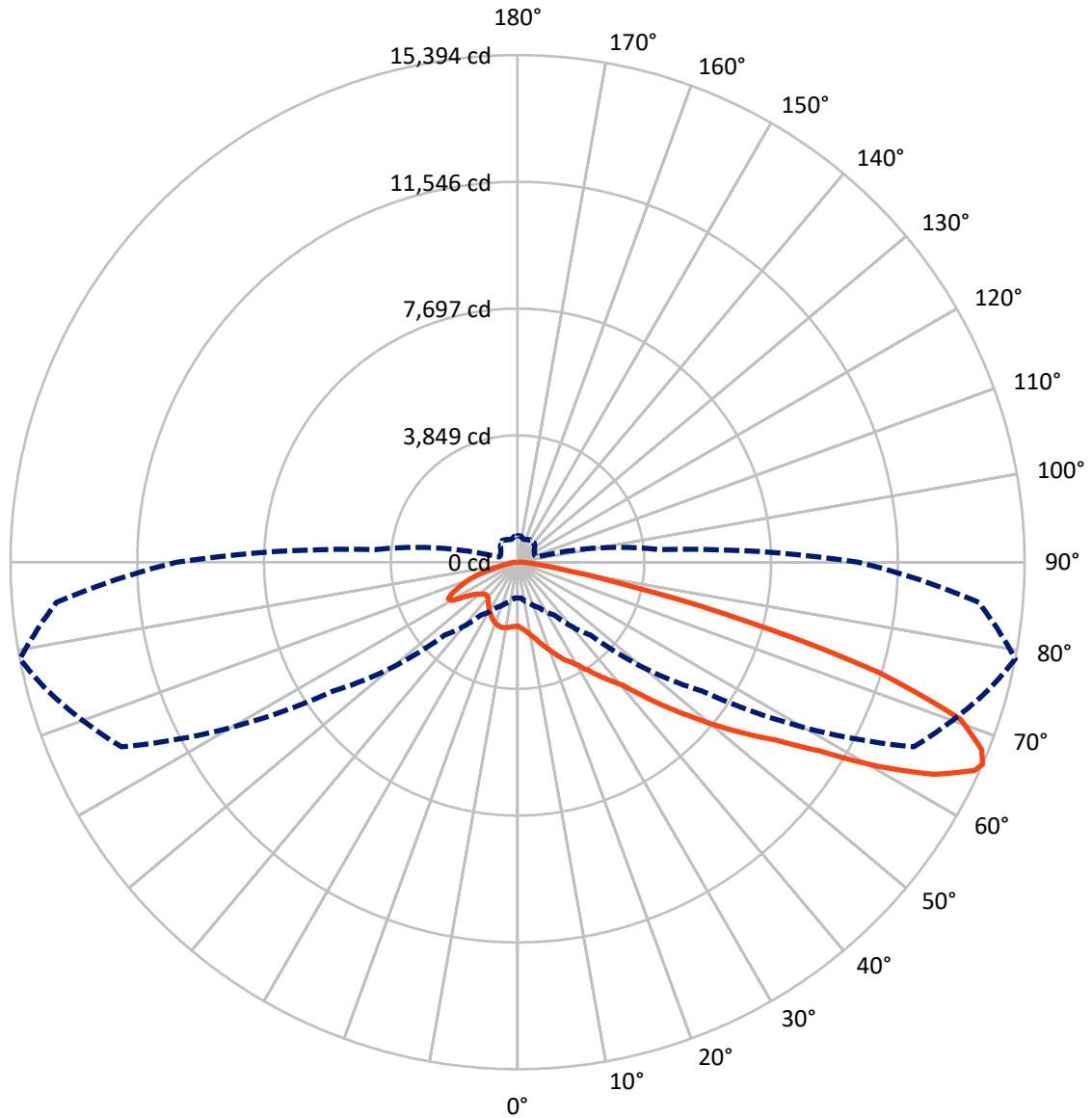
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

REPORT NUMBER: P476555
CATALOG NUMBER: IFLD-S-SA2D-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3111.2	0.0	3111.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12295.5	0.0	12295.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	15406.7	0.0	15406.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	1.2
10°-20°	590.7	3.8
20°-30°	1014.0	6.6
30°-40°	1566.4	10.2
40°-50°	2508.9	16.3
50°-60°	3746.0	24.3
60°-70°	3849.0	25.0
70°-80°	1706.2	11.1
80°-90°	234.1	1.5
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°	15406.7	100.0
0°-180°	15406.7	100.0



REPORT NUMBER: P476555

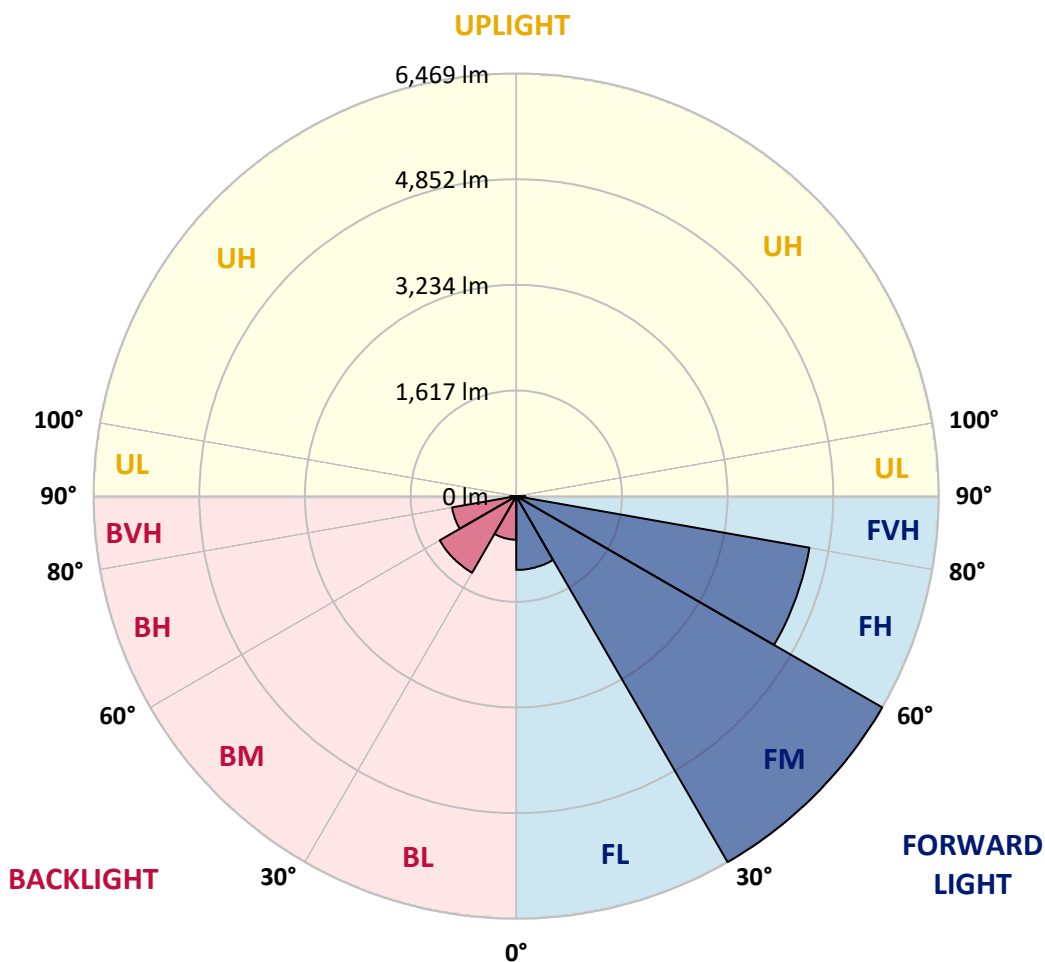
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.4	7.3			
FM (30°-60°)	6468.7	42.0			
FH (60°-80°)	4556.9	29.6			G2/5000
FVH (80°-90°)	140.4	0.9			G2/225
BL (0°-30°)	666.6	4.3	B2/1000		
BM (30°-60°)	1352.6	8.8	B2/2500		
BH (60°-80°)	998.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	93.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P476555
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4
2.5°	2069.1	2070.8	2070.8	2064.1	2065.8	2070.8	2052.2	2011.5	2011.5	2004.7	1992.9
5°	2196.2	2187.8	2175.9	2177.6	2170.8	2170.8	2150.5	2111.5	2077.6	2064.1	2028.5
7.5°	2213.2	2221.7	2220.0	2240.3	2250.5	2250.5	2260.6	2228.4	2177.6	2145.4	2109.8
10°	2247.1	2225.0	2223.4	2270.8	2286.1	2321.6	2362.3	2345.4	2303.0	2257.2	2209.8
12.5°	2267.4	2281.0	2281.0	2304.7	2340.3	2392.8	2464.0	2496.2	2430.1	2382.6	2309.8
15°	2297.9	2279.3	2333.5	2353.8	2421.6	2458.9	2560.6	2643.6	2599.6	2541.9	2426.7
17.5°	2311.5	2299.6	2330.1	2367.4	2482.6	2538.6	2662.3	2777.5	2740.2	2702.9	2584.3
20°	2381.0	2379.3	2392.8	2423.3	2506.4	2616.5	2770.7	2930.0	2943.6	2875.8	2714.8
22.5°	2550.4	2528.4	2528.4	2516.5	2552.1	2665.6	2874.1	3094.4	3155.4	3075.7	2862.2
25°	2706.3	2736.8	2718.2	2664.0	2650.4	2709.7	2948.7	3268.9	3350.3	3275.7	3062.2
27.5°	2906.3	2916.5	2948.7	2875.8	2782.6	2801.2	3030.0	3367.2	3535.0	3435.0	3175.7
30°	3194.4	3175.7	3169.0	3087.6	2965.6	2940.2	3123.2	3511.3	3777.3	3636.7	3309.6
32.5°	3389.3	3435.0	3433.3	3321.5	3174.0	3118.1	3238.4	3646.8	4036.6	3906.1	3557.0
35°	3775.6	3823.1	3785.8	3621.4	3448.6	3336.7	3404.5	3823.1	4333.2	4231.5	3767.2
37.5°	4268.8	4380.6	4301.0	3997.6	3753.6	3631.6	3635.0	4014.6	4636.5	4553.5	3992.5
40°	4609.4	4760.2	4650.1	4365.4	4106.1	3990.8	3945.1	4241.7	4999.2	4911.0	4345.0
42.5°	5031.3	5156.8	5099.1	4817.8	4514.5	4416.2	4324.7	4621.2	5553.3	5512.6	4797.5
45°	5492.3	5551.6	5533.0	5355.0	5017.8	4983.9	4782.2	5121.2	6205.7	6222.7	5363.5
47.5°	5921.0	5953.2	5988.8	5860.0	5649.9	5678.7	5309.3	5656.7	6839.5	6951.4	5993.9
50°	6031.2	6141.3	6224.4	6310.8	6356.5	6551.4	5890.5	6314.2	7568.2	7785.1	6695.5
52.5°	5919.3	5910.9	6163.4	6434.5	6892.0	7300.5	6681.9	7131.0	8212.2	8640.9	7337.7
55°	5410.9	5394.0	5800.7	6160.0	7053.0	7717.3	7812.2	8218.9	8990.0	9547.5	8207.1
57.5°	4521.3	4416.2	4860.2	5449.9	6703.9	7763.1	8947.6	9833.9	10186.4	10821.9	9534.0
60°	3038.5	2994.4	3419.8	4123.0	5443.1	7114.0	9627.2	11855.6	11872.6	12587.7	11592.9
62.5°	1870.9	1879.3	2152.2	2679.2	3811.2	5639.7	9334.0	13470.6	13474.0	14190.8	13287.6
65°	1223.5	1228.6	1448.9	1740.4	2381.0	3824.8	7719.0	13597.7	14587.4	15253.3	14063.7
66°	1089.6	1091.3	1281.1	1518.4	1972.5	3130.0	6817.5	13267.2	14838.2	15394.0	14053.5
67.5°	918.5	940.5	1093.0	1276.1	1538.7	2248.8	5409.3	12311.5	14709.4	15197.4	13735.0
70°	718.5	730.4	850.7	1037.1	1154.0	1301.5	3214.7	10035.6	13463.8	14255.2	12575.8
72.5°	576.2	586.3	677.9	842.2	937.1	857.5	1750.5	7281.8	10635.5	11479.4	9891.5
75°	486.4	488.1	532.1	662.6	771.1	644.0	932.0	4673.8	6824.3	7217.4	6060.0
77.5°	393.2	399.9	430.4	505.0	620.2	506.7	555.8	2618.2	3426.5	3455.3	2801.2
80°	320.3	323.7	342.3	367.7	472.8	374.5	376.2	1277.7	1469.2	1435.3	1138.8
82.5°	252.5	255.9	277.9	272.8	347.4	267.8	233.9	615.1	676.2	662.6	523.6
85°	142.3	142.3	218.6	218.6	220.3	169.5	142.3	289.8	357.6	333.8	245.7
87.5°	45.8	47.4	66.1	69.5	110.2	76.3	69.5	108.5	169.5	149.1	88.1
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: P476555
 CATALOG NUMBER: IFLD-S-SA2D-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4	1945.4
2.5°	1986.1	1959.0	1947.1	1908.2	1898.0	1872.6	1860.7	1845.4	1840.4	1818.3	1838.7
5°	2001.4	1992.9	1945.4	1896.3	1859.0	1842.1	1816.6	1782.7	1779.4	1748.9	1745.5
7.5°	2065.8	2036.9	1953.9	1901.4	1826.8	1784.4	1728.5	1711.6	1689.5	1679.4	1701.4
10°	2165.7	2092.9	1969.2	1837.0	1745.5	1694.6	1654.0	1642.1	1643.8	1637.0	1626.8
12.5°	2236.9	2167.4	1943.7	1782.7	1664.1	1615.0	1611.6	1623.5	1642.1	1633.6	1645.5
15°	2338.6	2208.1	1925.1	1692.9	1598.0	1584.5	1582.8	1618.4	1616.7	1616.7	1615.0
17.5°	2433.5	2248.8	1857.3	1615.0	1528.6	1538.7	1550.6	1548.9	1565.8	1572.6	1584.5
20°	2553.8	2296.2	1762.4	1537.0	1476.0	1472.6	1470.9	1472.6	1489.6	1499.7	1491.3
22.5°	2658.9	2306.4	1682.8	1462.5	1413.3	1399.8	1377.7	1399.8	1391.3	1394.7	1404.8
25°	2750.4	2308.1	1569.2	1406.5	1350.6	1320.1	1303.2	1301.5	1286.2	1284.5	1284.5
27.5°	2826.6	2250.5	1469.2	1328.6	1276.1	1247.2	1245.6	1226.9	1187.9	1162.5	1165.9
30°	2886.0	2206.4	1399.8	1260.8	1210.0	1204.9	1189.6	1147.3	1096.4	1064.2	1064.2
32.5°	2991.0	2118.3	1304.9	1191.3	1165.9	1159.1	1123.5	1086.3	1038.8	1008.3	1003.2
35°	3069.0	2036.9	1242.2	1132.0	1120.1	1106.6	1076.1	1035.4	1021.9	1015.1	1020.2
37.5°	3157.1	1945.4	1165.9	1081.2	1093.0	1067.6	1032.0	1013.4	1060.8	1049.0	1054.1
40°	3297.7	1881.0	1091.3	1050.7	1062.5	1033.7	988.0	981.2	1040.5	998.1	988.0
42.5°	3555.3	1879.3	1045.6	1004.9	1013.4	991.4	950.7	947.3	971.0	920.2	904.9
45°	3875.6	1938.7	1011.7	971.0	964.2	960.9	947.3	932.0	911.7	845.6	828.7
47.5°	4258.6	2035.2	1004.9	920.2	928.7	957.5	940.5	901.5	849.0	806.6	798.2
50°	4722.9	2235.2	988.0	882.9	898.2	943.9	930.4	876.1	828.7	801.6	796.5
52.5°	5236.4	2487.7	965.9	825.3	859.2	932.0	938.8	888.0	818.5	794.8	791.4
55°	5841.4	2860.5	940.5	762.6	813.4	920.2	938.8	854.1	804.9	804.9	801.6
57.5°	7036.1	3531.6	888.0	705.0	772.8	898.2	911.7	855.8	806.6	806.6	799.9
60°	8788.3	4578.9	788.0	660.9	733.8	867.6	891.4	830.4	788.0	798.2	796.5
62.5°	10159.3	4897.5	703.3	618.5	694.8	811.7	864.3	803.3	766.0	803.3	806.6
65°	10452.5	4575.5	616.8	572.8	640.6	757.5	825.3	764.3	733.8	806.6	810.0
66°	10347.4	4324.7	586.3	559.2	616.8	730.4	801.6	750.7	716.8	803.3	804.9
67.5°	9879.7	3948.5	552.4	530.4	584.6	691.4	774.4	732.1	689.7	793.1	777.8
70°	8862.9	3348.6	494.8	479.6	538.9	627.0	711.7	684.6	647.3	730.4	703.3
72.5°	6826.0	2675.8	433.8	435.5	486.4	560.9	649.0	630.4	598.2	640.6	623.6
75°	4156.9	1709.9	377.9	381.3	423.7	498.2	589.7	576.2	537.2	560.9	552.4
77.5°	1842.1	847.3	318.6	325.4	359.3	438.9	513.5	491.4	450.8	455.9	452.5
80°	715.1	401.6	259.3	267.8	289.8	350.8	425.4	405.0	369.4	362.7	359.3
82.5°	344.0	223.7	200.0	203.4	211.8	279.6	366.0	340.6	293.2	262.7	262.7
85°	172.9	139.0	140.7	128.8	140.7	189.8	247.4	206.7	171.2	152.5	155.9
87.5°	69.5	69.5	69.5	59.3	62.7	89.8	115.2	78.0	71.2	42.4	42.4
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)