

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: P477165

Luminaire Tested: **IFLD-M-SA4D-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

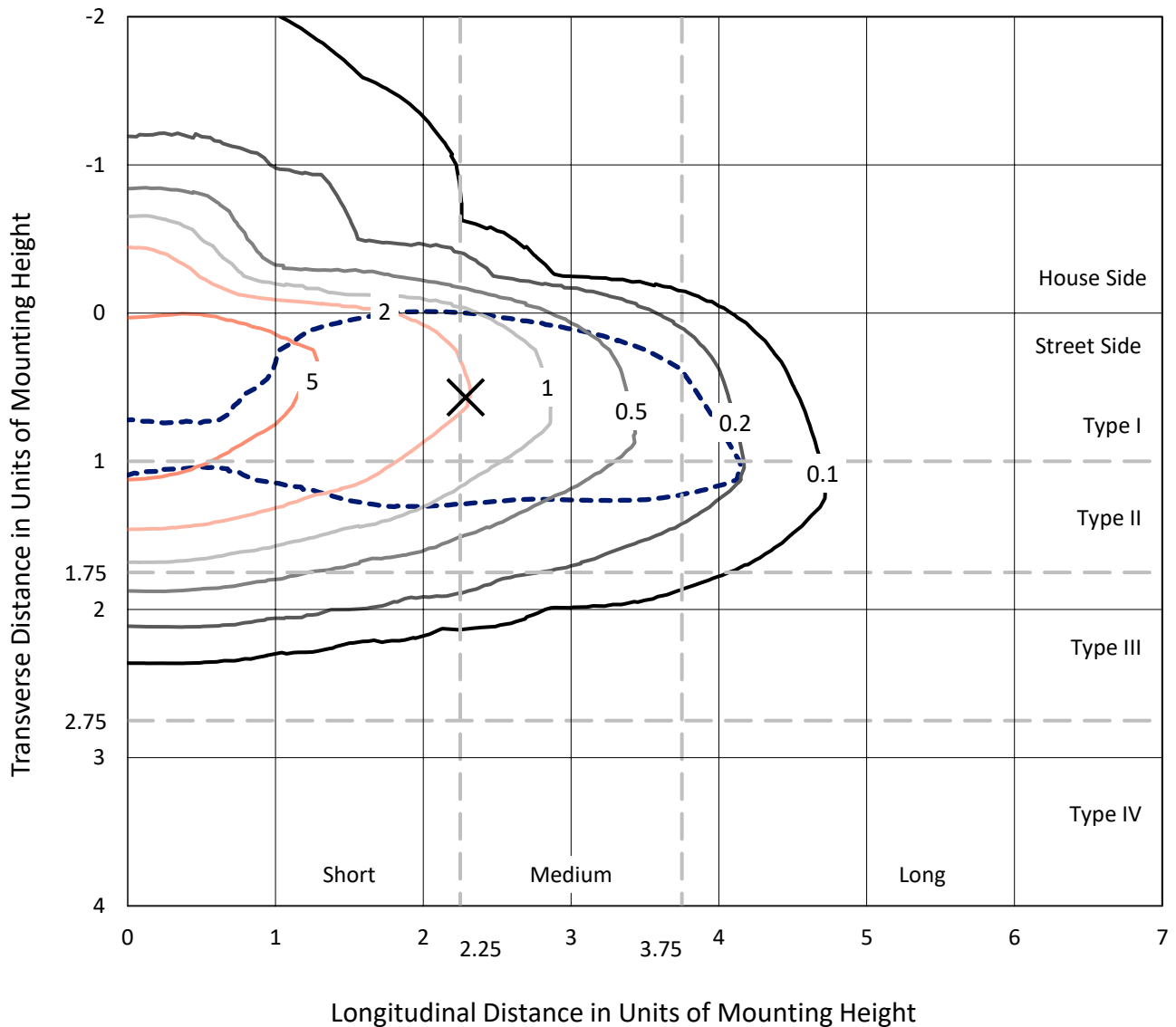
Lumens per Lamp: N/A
Luminaire Lumens: 24997.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7
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: P477165
 CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

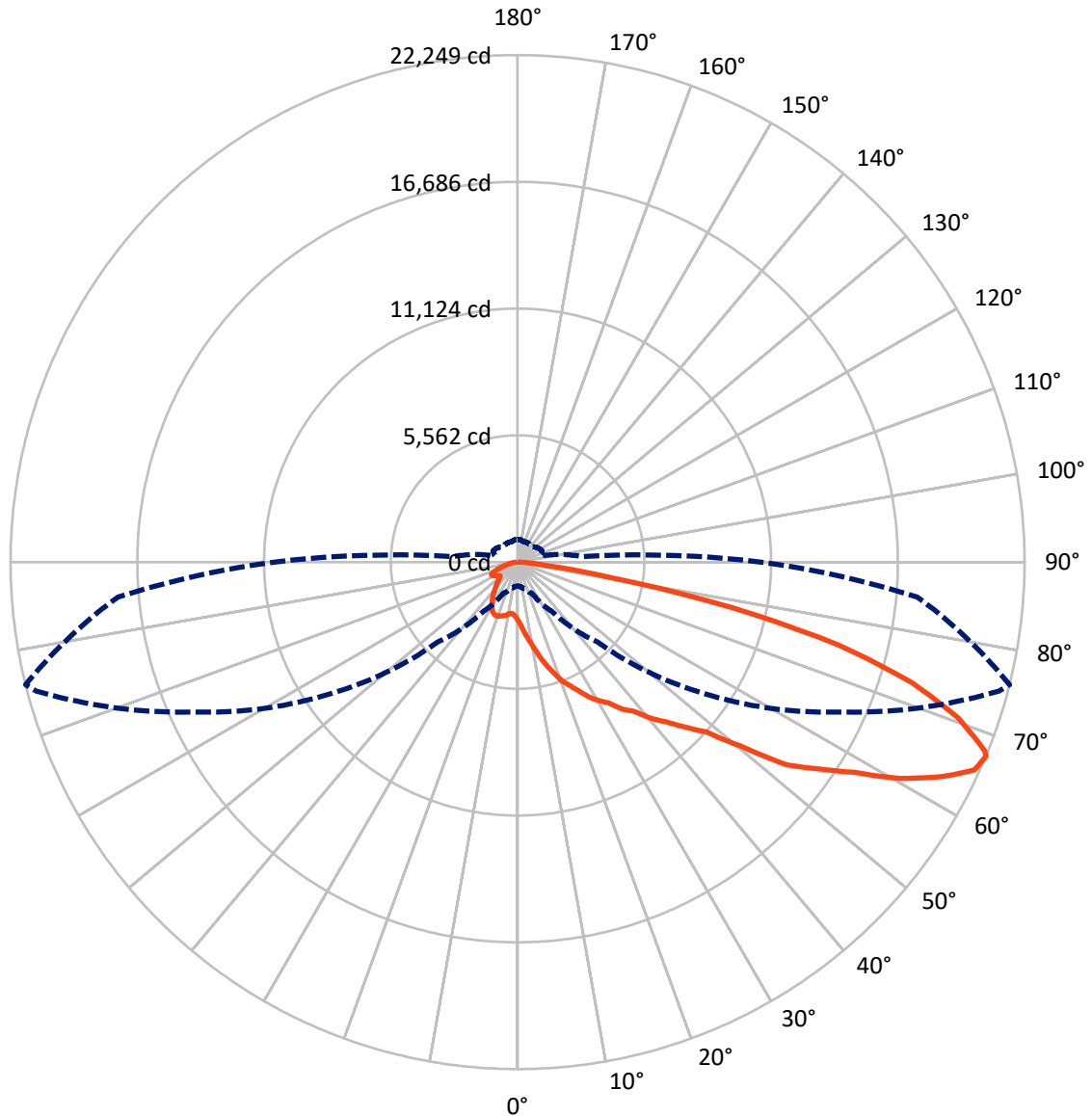
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P477165
CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477165
 CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3556.3	0.0	3556.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21441.6	0.0	21441.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	24997.9	0.0	24997.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	1.2
10°-20°	1111.4	4.4
20°-30°	2066.2	8.3
30°-40°	3275.4	13.1
40°-50°	4530.1	18.1
50°-60°	5572.4	22.3
60°-70°	5185.4	20.7
70°-80°	2602.0	10.4
80°-90°	358.8	1.4
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°	24997.9	100.0
0°-180°	24997.9	100.0

Coefficient of Utilization



REPORT NUMBER: P477165

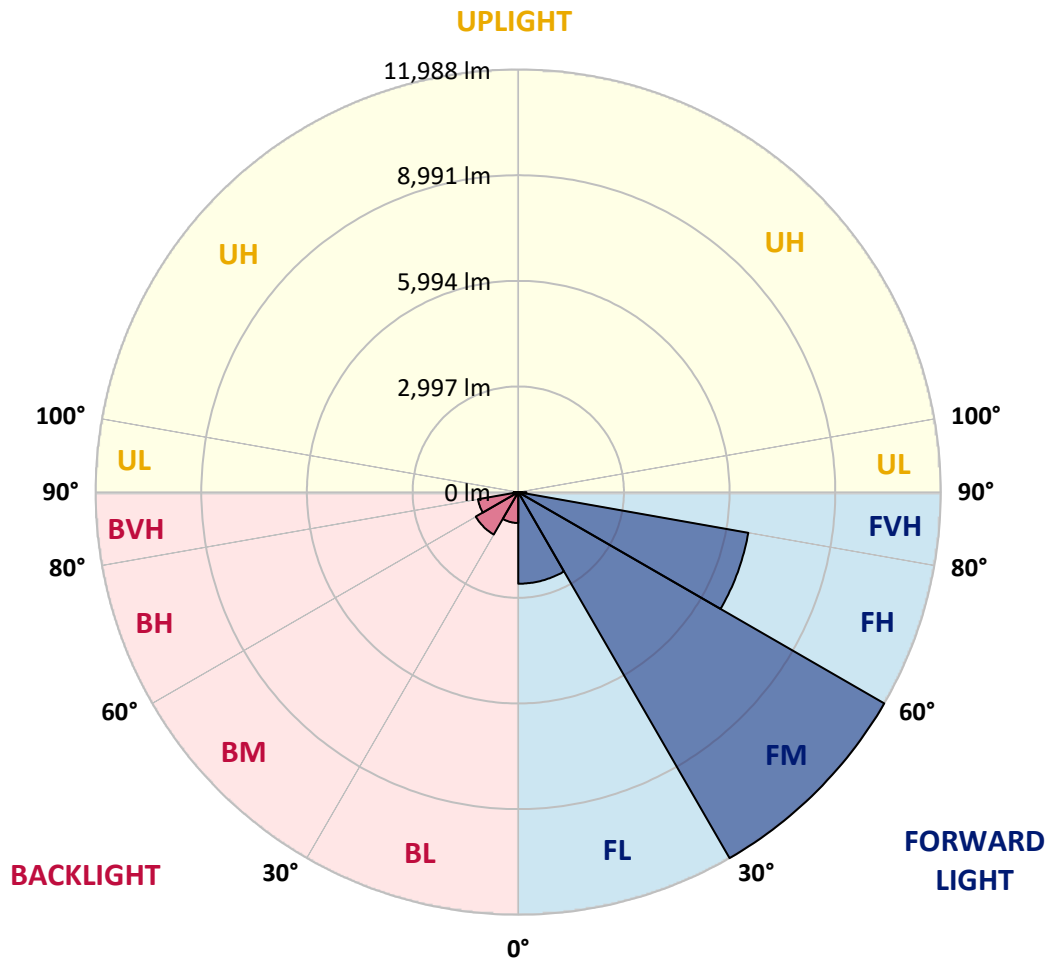
CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2598.1	10.4			
FM (30°-60°)	11988.2	48.0			
FH (60°-80°)	6626.7	26.5			G3/7500
FVH (80°-90°)	228.6	0.9			G3/500
BL (0°-30°)	875.8	3.5	B2/1000		
BM (30°-60°)	1389.7	5.6	B2/2500		
BH (60°-80°)	1160.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	130.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P477165
 CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2
2.5°	3549.5	3506.8	3464.0	3372.9	3341.6	3256.1	3099.4	2925.6	2783.2	2763.3	2663.6
5°	4404.1	4341.5	4327.2	4275.9	4113.6	3948.3	3691.9	3412.8	3065.2	3090.9	2749.0
7.5°	5045.1	5008.1	4931.1	4882.7	4785.9	4566.5	4301.6	3931.2	3489.7	3404.2	2939.9
10°	5529.4	5478.1	5475.2	5432.5	5381.2	5156.2	4953.9	4455.4	3888.5	3771.7	3173.5
12.5°	5774.4	5765.8	5916.8	5916.8	5896.9	5802.9	5455.3	4999.5	4267.4	4227.5	3444.1
15°	6039.3	5968.1	6099.1	6198.8	6250.1	6298.5	6010.8	5529.4	4751.7	4674.8	3734.7
17.5°	6039.3	6033.6	6164.6	6329.9	6597.6	6660.3	6503.6	6016.5	5153.3	5096.4	4053.7
20°	5936.7	6019.4	6110.5	6332.7	6623.3	6876.8	6922.4	6515.0	5597.7	5552.2	4415.5
22.5°	6415.3	6335.6	6429.6	6515.0	6740.1	7124.7	7250.0	6953.7	6064.9	5891.2	4743.1
25°	7218.7	7164.5	7096.2	6970.8	7064.8	7232.9	7423.8	7278.5	6463.8	6270.0	5059.3
27.5°	8002.1	8004.9	7856.8	7583.3	7381.0	7415.2	7640.3	7563.4	6799.9	6714.4	5275.8
30°	9115.9	9047.5	8882.3	8512.0	8116.0	7791.3	7754.2	7828.3	7227.2	7062.0	5586.3
32.5°	9950.6	9964.8	9731.2	9198.5	8657.3	8392.3	8067.6	8098.9	7497.8	7375.3	5834.2
35°	10625.7	10608.7	10443.4	10001.9	9360.9	9041.9	8603.1	8423.7	8127.4	7933.7	6213.1
37.5°	11355.0	11215.4	10947.6	10449.1	10038.9	9597.4	9170.0	8765.5	8546.2	8312.6	6537.8
40°	11648.4	11648.4	11289.5	11061.6	10574.5	10241.2	9964.8	9215.6	9056.1	9010.5	6953.7
42.5°	11440.5	11568.7	11420.5	11161.3	10961.9	10540.3	10466.2	9682.8	9685.7	9594.5	7452.3
45°	11420.5	11243.9	11121.4	11186.9	11092.9	11070.1	11258.2	10329.5	10346.6	10335.2	8121.7
47.5°	10847.9	10768.2	10950.5	11058.7	11135.7	11488.9	12030.2	11101.5	11224.0	11138.5	8893.7
50°	10278.2	10264.0	10377.9	10771.0	11104.3	11685.5	12765.1	12292.2	12693.9	12688.2	10292.4
52.5°	8717.1	8868.1	9315.3	10147.2	10970.4	11953.2	13320.6	13813.5	14579.8	14787.7	11451.9
55°	7224.4	7144.6	7805.5	9013.4	10386.4	12058.7	13941.7	14727.9	15856.0	16007.0	12642.6
57.5°	5620.5	5768.7	6290.0	7449.4	9178.6	11537.3	14397.5	15631.0	17297.5	17414.3	14024.3
60°	4193.3	4213.3	4785.9	5720.2	7571.9	10360.8	14545.6	16556.8	18949.7	19283.0	15471.4
62.5°	2637.9	2757.6	3193.4	4113.6	5700.3	8714.2	13881.8	17118.0	20681.7	20770.1	16930.0
65°	1421.5	1498.4	1826.0	2404.3	3982.5	6591.9	12121.3	16781.8	21496.5	22020.6	17579.5
67°	1051.2	1065.4	1216.4	1535.5	2663.6	4962.5	10107.3	15565.4	21866.8	22248.5	17605.1
67.5°	985.7	1005.6	1125.2	1378.8	2361.6	4569.4	9580.3	15132.4	21701.6	22111.8	17405.7
70°	843.2	848.9	877.4	948.6	1324.7	2749.0	6523.6	12400.5	20114.8	20508.0	16007.0
72.5°	749.2	754.9	766.3	780.6	897.3	1589.6	3968.3	9543.2	17482.6	18109.3	13810.6
75°	658.1	678.0	683.7	672.3	763.5	1034.1	2110.9	7013.6	14260.7	14565.5	10739.7
77.5°	558.4	566.9	578.3	589.7	680.8	772.0	1014.1	4734.6	9788.2	9603.1	5808.5
80°	470.0	472.9	481.4	490.0	589.7	589.7	575.4	2558.2	4275.9	4087.9	1962.8
82.5°	336.1	356.1	376.0	398.8	490.0	396.0	376.0	1139.5	1353.1	1287.6	663.8
85°	131.0	159.5	247.8	273.5	310.5	213.7	250.7	492.8	564.0	558.4	247.8
87.5°	22.8	25.6	68.4	105.4	113.9	74.1	119.6	176.6	210.8	227.9	91.2
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: P477165
 CATALOG NUMBER: IFLD-M-SA4D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2	2558.2
2.5°	2580.9	2492.6	2387.2	2281.8	2213.5	2105.2	2096.7	2031.1	2022.6	1999.8	2011.2
5°	2600.9	2495.5	2281.8	2113.8	2036.8	1974.2	1988.4	1959.9	1951.4	1937.1	1914.3
7.5°	2757.6	2549.6	2230.6	2085.3	2028.3	1999.8	1999.8	1965.6	1940.0	1957.1	1974.2
10°	2860.1	2575.2	2270.4	2125.1	2079.6	2016.9	2039.7	1997.0	2011.2	1977.0	1977.0
12.5°	3025.3	2720.5	2353.0	2185.0	2110.9	2053.9	2076.7	2028.3	2016.9	2019.7	2011.2
15°	3247.5	2817.4	2390.1	2219.2	2167.9	2096.7	2079.6	2036.8	1994.1	1979.9	1997.0
17.5°	3455.5	2937.0	2415.7	2239.1	2156.5	2076.7	2056.8	2002.7	1988.4	1945.7	1911.5
20°	3703.3	3079.5	2449.9	2256.2	2113.8	2034.0	1982.7	1928.6	1880.2	1854.5	1865.9
22.5°	3868.6	3153.5	2467.0	2222.0	2051.1	1977.0	1868.8	1831.7	1763.4	1734.9	1712.1
25°	4139.2	3244.7	2424.3	2128.0	1940.0	1820.3	1723.5	1672.2	1623.8	1586.7	1575.3
27.5°	4207.6	3313.1	2324.6	1968.5	1763.4	1638.0	1555.4	1492.7	1461.4	1404.4	1393.0
30°	4407.0	3244.7	2176.4	1774.8	1595.3	1467.1	1384.5	1338.9	1264.8	1250.6	1219.3
32.5°	4535.2	3264.6	1988.4	1586.7	1401.6	1287.6	1233.5	1187.9	1168.0	1099.6	1082.5
35°	4748.8	3196.3	1797.5	1413.0	1242.0	1153.7	1108.2	1093.9	1028.4	997.1	968.6
37.5°	4885.6	3156.4	1606.7	1216.4	1068.3	1031.2	1045.5	985.7	905.9	846.1	826.1
40°	5124.9	3142.1	1390.2	1054.0	948.6	940.1	985.7	871.7	726.4	675.1	646.7
42.5°	5469.6	3045.3	1222.1	908.7	854.6	891.7	900.2	726.4	643.8	601.1	581.1
45°	5800.0	3065.2	1056.9	752.1	743.5	797.6	777.7	615.3	566.9	535.6	552.7
47.5°	6435.3	3164.9	894.5	626.7	669.5	720.7	603.9	549.8	504.2	481.4	484.3
50°	7418.1	3261.8	752.1	572.6	632.4	652.4	518.5	498.5	495.7	450.1	447.2
52.5°	8007.8	3224.8	726.4	641.0	678.0	652.4	564.0	549.8	527.0	507.1	484.3
55°	8945.0	3333.0	780.6	749.2	769.2	626.7	632.4	626.7	609.6	558.4	572.6
57.5°	9691.4	3404.2	851.8	837.5	826.1	652.4	660.9	663.8	652.4	629.6	649.5
60°	10716.9	3546.7	925.8	928.7	931.5	709.3	723.6	740.7	737.8	729.3	735.0
62.5°	11346.5	3481.1	1008.4	1054.0	1039.8	826.1	823.3	834.7	834.7	848.9	857.5
65°	11252.5	3239.0	1051.2	1165.1	1091.1	911.6	911.6	917.3	920.1	948.6	951.5
67°	10688.4	2806.0	1028.4	1182.2	1091.1	945.8	945.8	951.5	931.5	1005.6	982.8
67.5°	10426.3	2677.8	1008.4	1168.0	1082.5	942.9	942.9	945.8	928.7	999.9	977.1
70°	9067.5	1988.4	868.9	1034.1	1002.8	917.3	917.3	900.2	886.0	980.0	960.0
72.5°	7740.0	1444.3	697.9	880.3	905.9	883.1	888.8	846.1	806.2	871.7	854.6
75°	5928.2	1062.6	544.1	678.0	766.3	826.1	863.2	754.9	703.6	720.7	689.4
77.5°	3307.4	692.2	430.2	501.4	584.0	769.2	829.0	680.8	575.4	555.5	555.5
80°	1122.4	404.5	316.2	373.2	401.7	680.8	774.9	552.7	452.9	433.0	418.8
82.5°	424.5	247.8	216.5	256.4	256.4	538.4	632.4	424.5	341.8	441.6	450.1
85°	193.7	148.1	142.4	148.1	148.1	330.5	447.2	276.3	307.7	264.9	233.6
87.5°	76.9	71.2	65.5	62.7	51.3	57.0	153.8	74.1	139.6	37.0	34.2
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)