

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: P477170

Luminaire Tested: **IFLD-L-SA7D-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477170
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

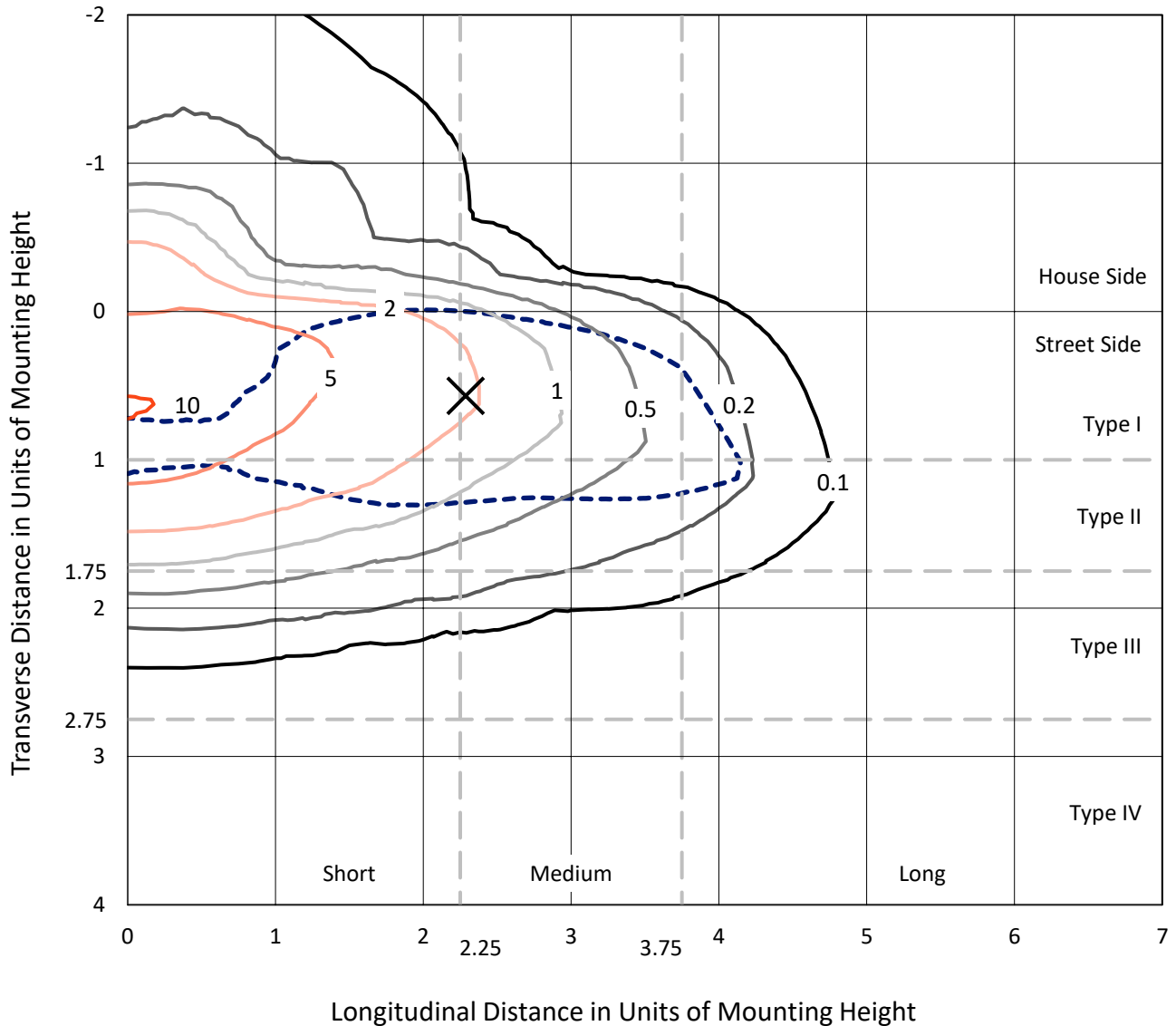
Lumens per Lamp: N/A
Luminaire Lumens: 38977.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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: P477170
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

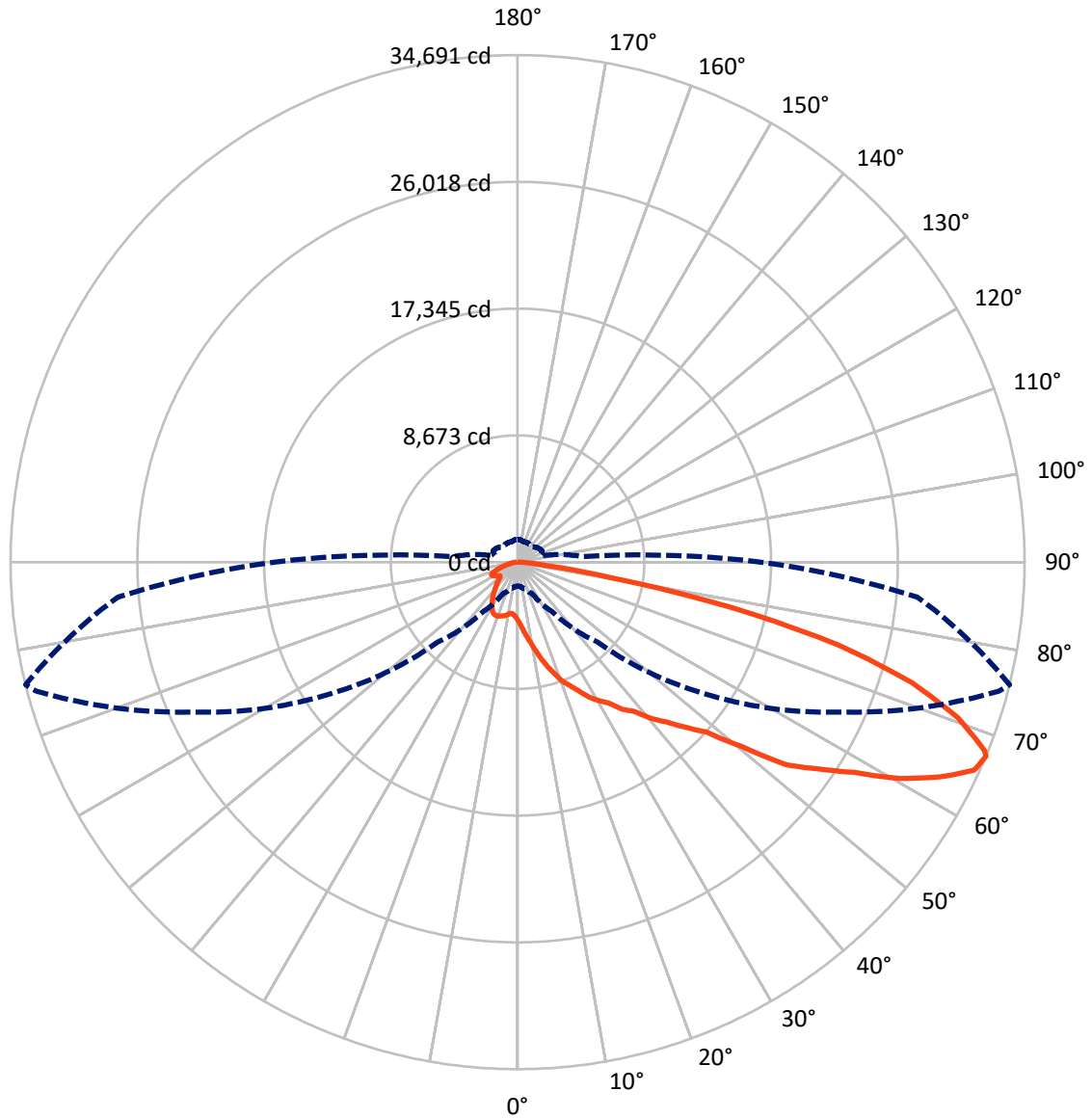
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P477170
CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477170
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5545.1	0.0	5545.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33432.6	0.0	33432.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	38977.7	0.0	38977.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.0	1.2
10°-20°	1732.9	4.4
20°-30°	3221.7	8.3
30°-40°	5107.1	13.1
40°-50°	7063.6	18.1
50°-60°	8688.7	22.3
60°-70°	8085.2	20.7
70°-80°	4057.1	10.4
80°-90°	559.4	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°	38977.7	100.0
0°-180°	38977.7	100.0

Coefficient of Utilization



REPORT NUMBER: P477170

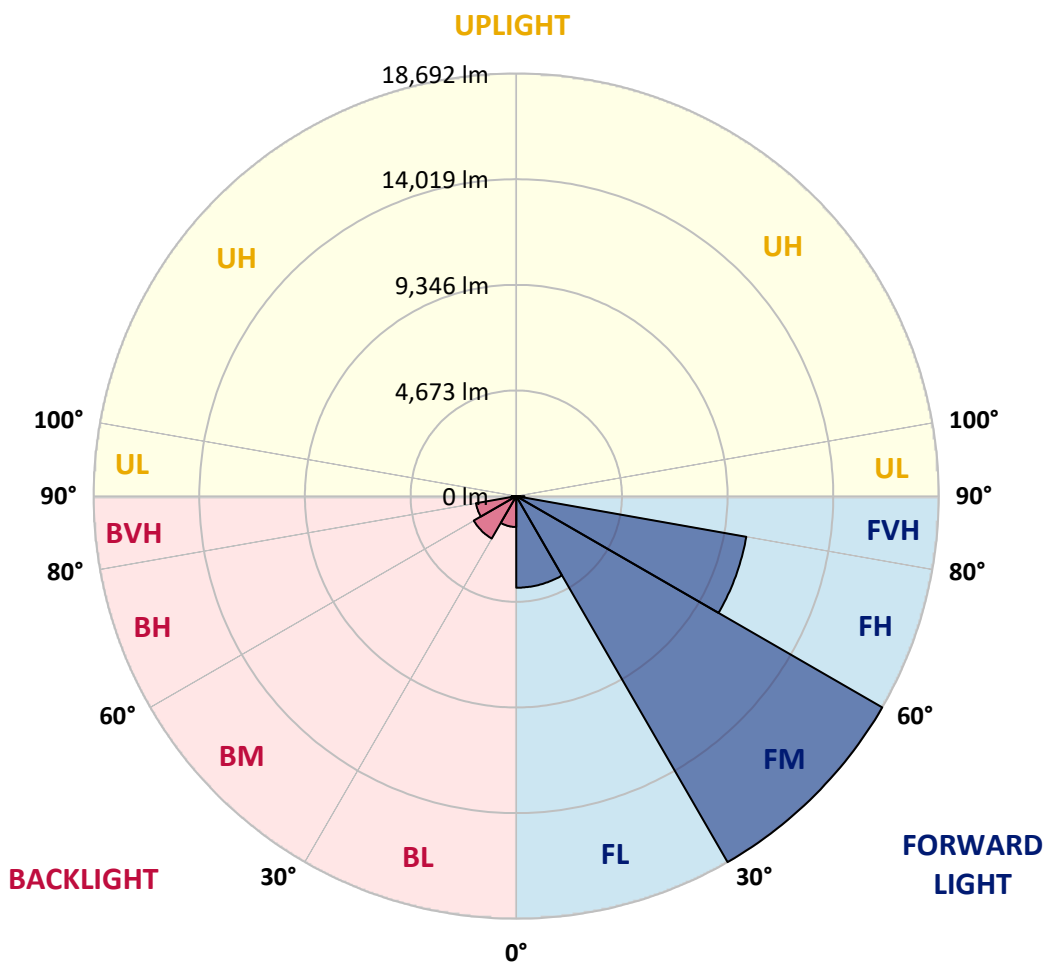
CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4051.1	10.4			
FM (30°-60°)	18692.4	48.0			
FH (60°-80°)	10332.7	26.5			G4/12000
FVH (80°-90°)	356.4	0.9			G3/500
BL (0°-30°)	1365.5	3.5	B3/2500		
BM (30°-60°)	2166.9	5.6	B2/2500		
BH (60°-80°)	1809.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	203.0	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-G4

Type II Medium





REPORT NUMBER: P477170

CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8
2.5°	5534.5	5467.9	5401.3	5259.1	5210.3	5077.0	4832.7	4561.8	4339.7	4308.6	4153.1
5°	6867.1	6769.4	6747.2	6667.2	6414.0	6156.4	5756.6	5321.3	4779.4	4819.4	4286.4
7.5°	7866.5	7808.8	7688.8	7613.3	7462.3	7120.3	6707.2	6129.7	5441.3	5308.0	4584.0
10°	8621.6	8541.7	8537.2	8470.6	8390.6	8039.7	7724.4	6947.0	6063.1	5881.0	4948.2
12.5°	9003.6	8990.3	9225.7	9225.7	9194.6	9048.0	8506.1	7795.4	6653.9	6591.7	5370.2
15°	9416.7	9305.7	9510.0	9665.4	9745.4	9820.9	9372.3	8621.6	7409.0	7289.1	5823.2
17.5°	9416.7	9407.8	9612.1	9869.8	10287.3	10385.0	10140.7	9381.2	8035.3	7946.4	6320.7
20°	9256.8	9385.6	9527.7	9874.2	10327.3	10722.6	10793.7	10158.5	8728.2	8657.1	6884.8
22.5°	10003.0	9878.6	10025.2	10158.5	10509.4	11109.0	11304.5	10842.5	9456.7	9185.7	7395.7
25°	11255.6	11171.2	11064.6	10869.2	11015.8	11277.8	11575.4	11348.9	10078.5	9776.5	7888.7
27.5°	12477.1	12481.6	12250.6	11824.2	11508.8	11562.1	11913.0	11793.1	10602.7	10469.4	8226.3
30°	14213.9	14107.3	13849.7	13272.2	12654.8	12148.4	12090.7	12206.2	11268.9	11011.3	8710.4
32.5°	15515.3	15537.5	15173.3	14342.7	13498.7	13085.7	12579.3	12628.1	11690.9	11499.9	9096.9
35°	16568.1	16541.4	16283.8	15595.3	14595.9	14098.4	13414.4	13134.5	12672.6	12370.5	9687.6
37.5°	17705.2	17487.5	17070.0	16292.7	15653.0	14964.6	14298.3	13667.5	13325.5	12961.3	10194.0
40°	18162.7	18162.7	17603.0	17247.7	16488.1	15968.4	15537.5	14369.3	14120.6	14049.5	10842.5
42.5°	17838.4	18038.3	17807.3	17403.1	17092.2	16434.8	16319.3	15097.8	15102.2	14960.1	11619.8
45°	17807.3	17531.9	17340.9	17443.1	17296.5	17261.0	17554.1	16106.1	16132.8	16115.0	12663.7
47.5°	16914.5	16790.1	17074.4	17243.2	17363.1	17913.9	18757.9	17309.8	17500.8	17367.6	13867.4
50°	16026.2	16003.9	16181.6	16794.6	17314.3	18220.4	19903.9	19166.5	19792.8	19783.9	16048.4
52.5°	13592.0	13827.4	14524.8	15821.8	17105.5	18638.0	20770.0	21538.5	22733.3	23057.6	17856.2
55°	11264.5	11140.1	12170.6	14054.0	16194.9	18802.3	21738.4	22964.3	24723.3	24958.7	19712.9
57.5°	8763.7	8994.7	9807.6	11615.4	14311.6	17989.4	22449.0	24372.4	26970.8	27153.0	21867.2
60°	6538.4	6569.5	7462.3	8919.2	11806.4	16155.0	22680.0	25816.0	29547.1	30066.8	24123.6
62.5°	4113.1	4299.7	4979.3	6414.0	8888.1	13587.6	21645.1	26691.0	32247.7	32385.4	26397.8
65°	2216.5	2336.4	2847.2	3748.9	6209.7	10278.4	18900.0	26166.9	33518.1	34335.4	27410.6
67°	1639.0	1661.2	1896.7	2394.2	4153.1	7737.7	15759.6	24270.2	34095.5	34690.8	27450.6
67.5°	1536.9	1568.0	1754.5	2149.8	3682.3	7124.7	14937.9	23595.0	33837.9	34477.5	27139.6
70°	1314.8	1323.7	1368.1	1479.1	2065.5	4286.4	10171.8	19335.3	31363.8	31976.8	24958.7
72.5°	1168.2	1177.1	1194.9	1217.1	1399.2	2478.5	6187.5	14880.2	27259.6	28236.8	21534.0
75°	1026.1	1057.2	1066.0	1048.3	1190.4	1612.4	3291.4	10935.8	22235.8	22711.1	16745.7
77.5°	870.6	883.9	901.7	919.5	1061.6	1203.7	1581.3	7382.3	15262.2	14973.4	9056.9
80°	732.9	737.3	750.7	764.0	919.5	919.5	897.3	3988.8	6667.2	6374.0	3060.4
82.5°	524.1	555.2	586.3	621.9	764.0	617.4	586.3	1776.7	2109.9	2007.7	1034.9
85°	204.3	248.7	386.4	426.4	484.2	333.1	390.9	768.4	879.5	870.6	386.4
87.5°	35.5	40.0	106.6	164.3	177.7	115.5	186.6	275.4	328.7	355.3	142.1
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: P477170
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8	3988.8
2.5°	4024.3	3886.6	3722.3	3557.9	3451.3	3282.5	3269.2	3167.0	3153.7	3118.2	3135.9
5°	4055.4	3891.1	3557.9	3295.8	3175.9	3078.2	3100.4	3056.0	3042.7	3020.4	2984.9
7.5°	4299.7	3975.4	3478.0	3251.4	3162.6	3118.2	3118.2	3064.9	3024.9	3051.5	3078.2
10°	4459.6	4015.4	3540.1	3313.6	3242.5	3144.8	3180.4	3113.7	3135.9	3082.6	3082.6
12.5°	4717.2	4242.0	3669.0	3406.9	3291.4	3202.6	3238.1	3162.6	3144.8	3149.3	3135.9
15°	5063.7	4393.0	3726.7	3460.2	3380.2	3269.2	3242.5	3175.9	3109.3	3087.1	3113.7
17.5°	5387.9	4579.5	3766.7	3491.3	3362.5	3238.1	3207.0	3122.6	3100.4	3033.8	2980.5
20°	5774.4	4801.6	3820.0	3517.9	3295.8	3171.5	3091.5	3007.1	2931.6	2891.6	2909.4
22.5°	6032.0	4917.1	3846.6	3464.6	3198.1	3082.6	2913.8	2856.1	2749.5	2705.1	2669.5
25°	6454.0	5059.3	3780.0	3318.1	3024.9	2838.3	2687.3	2607.4	2531.8	2474.1	2456.3
27.5°	6560.6	5165.9	3624.5	3069.3	2749.5	2554.1	2425.2	2327.5	2278.7	2189.8	2172.1
30°	6871.5	5059.3	3393.6	2767.3	2487.4	2287.5	2158.7	2087.7	1972.2	1950.0	1901.1
32.5°	7071.4	5090.3	3100.4	2474.1	2185.4	2007.7	1923.3	1852.2	1821.2	1714.5	1687.9
35°	7404.5	4983.7	2802.8	2203.2	1936.6	1798.9	1727.9	1705.7	1603.5	1554.6	1510.2
37.5°	7617.8	4921.6	2505.2	1896.7	1665.7	1607.9	1630.2	1536.9	1412.5	1319.2	1288.1
40°	7990.9	4899.3	2167.6	1643.5	1479.1	1465.8	1536.9	1359.2	1132.7	1052.7	1008.3
42.5°	8528.3	4748.3	1905.5	1416.9	1332.6	1390.3	1403.6	1132.7	1003.9	937.2	906.1
45°	9043.6	4779.4	1647.9	1172.6	1159.3	1243.7	1212.6	959.4	883.9	835.1	861.7
47.5°	10034.1	4934.9	1394.7	977.2	1043.8	1123.8	941.7	857.3	786.2	750.7	755.1
50°	11566.5	5085.9	1172.6	892.8	986.1	1017.2	808.4	777.3	772.9	701.8	697.4
52.5°	12486.0	5028.2	1132.7	999.4	1057.2	1017.2	879.5	857.3	821.7	790.6	755.1
55°	13947.4	5197.0	1217.1	1168.2	1199.3	977.2	986.1	977.2	950.6	870.6	892.8
57.5°	15111.1	5308.0	1328.1	1305.9	1288.1	1017.2	1030.5	1034.9	1017.2	981.6	1012.7
60°	16710.2	5530.1	1443.6	1448.0	1452.5	1106.0	1128.2	1154.9	1150.4	1137.1	1146.0
62.5°	17691.8	5427.9	1572.4	1643.5	1621.3	1288.1	1283.7	1301.5	1301.5	1323.7	1337.0
65°	17545.3	5050.4	1639.0	1816.7	1701.2	1421.4	1421.4	1430.3	1434.7	1479.1	1483.6
67°	16665.8	4375.2	1603.5	1843.4	1701.2	1474.7	1474.7	1483.6	1452.5	1568.0	1532.4
67.5°	16257.1	4175.3	1572.4	1821.2	1687.9	1470.2	1470.2	1474.7	1448.0	1559.1	1523.6
70°	14138.4	3100.4	1354.8	1612.4	1563.5	1430.3	1430.3	1403.6	1381.4	1528.0	1496.9
72.5°	12068.5	2252.0	1088.3	1372.5	1412.5	1377.0	1385.9	1319.2	1257.0	1359.2	1332.6
75°	9243.5	1656.8	848.4	1057.2	1194.9	1288.1	1345.9	1177.1	1097.1	1123.8	1074.9
77.5°	5157.0	1079.4	670.7	781.8	910.6	1199.3	1292.6	1061.6	897.3	866.2	866.2
80°	1750.1	630.7	493.0	581.9	626.3	1061.6	1208.2	861.7	706.3	675.2	653.0
82.5°	661.8	386.4	337.6	399.8	399.8	839.5	986.1	661.8	533.0	688.5	701.8
85°	302.0	231.0	222.1	231.0	231.0	515.3	697.4	430.9	479.7	413.1	364.2
87.5°	119.9	111.0	102.2	97.7	80.0	88.8	239.9	115.5	217.7	57.7	53.3
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)