

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: P476977

Luminaire Tested: **IFLD-L-SA8A-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476977
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

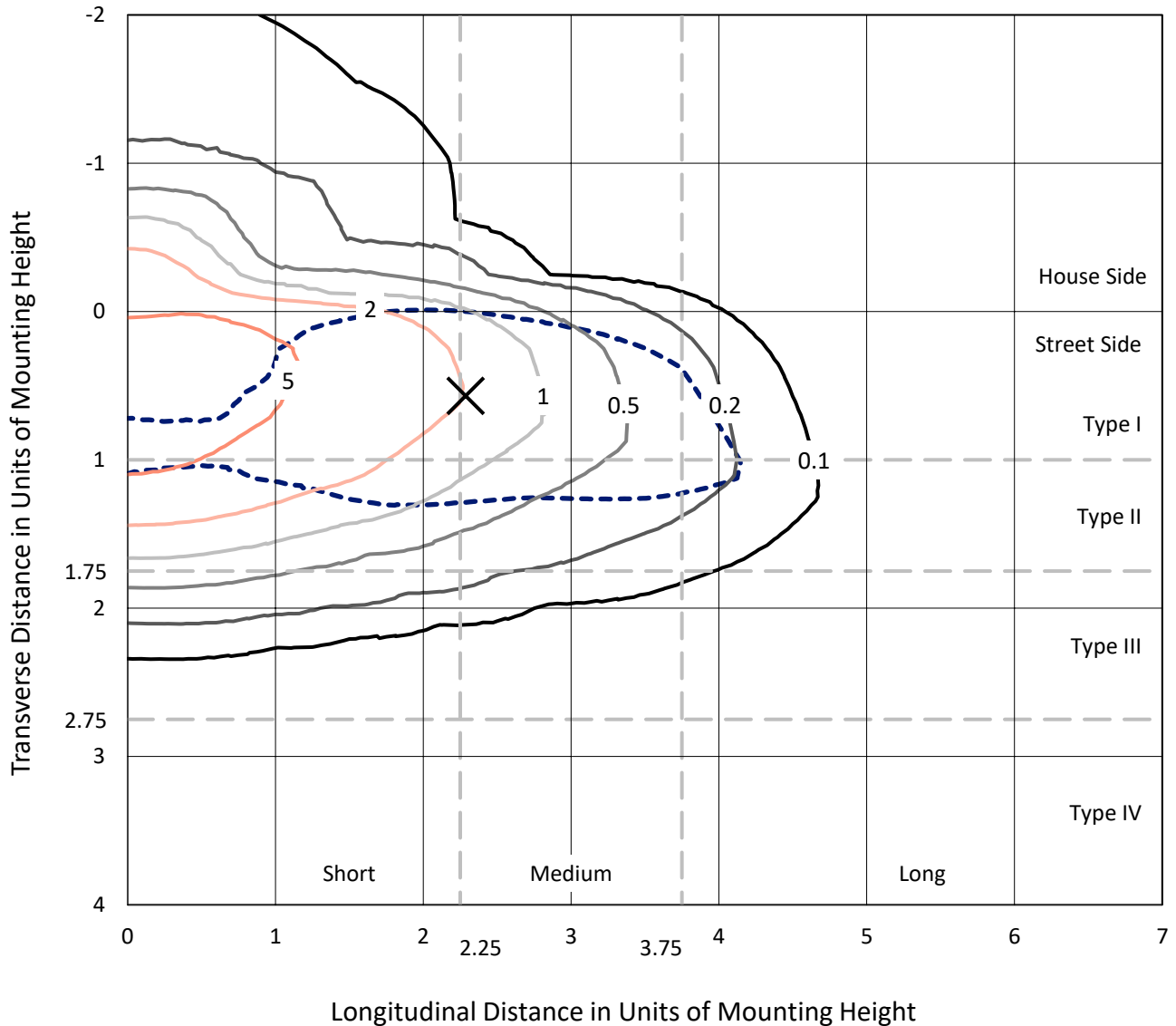
Lumens per Lamp: N/A
Luminaire Lumens: 33976.8 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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: P476977
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

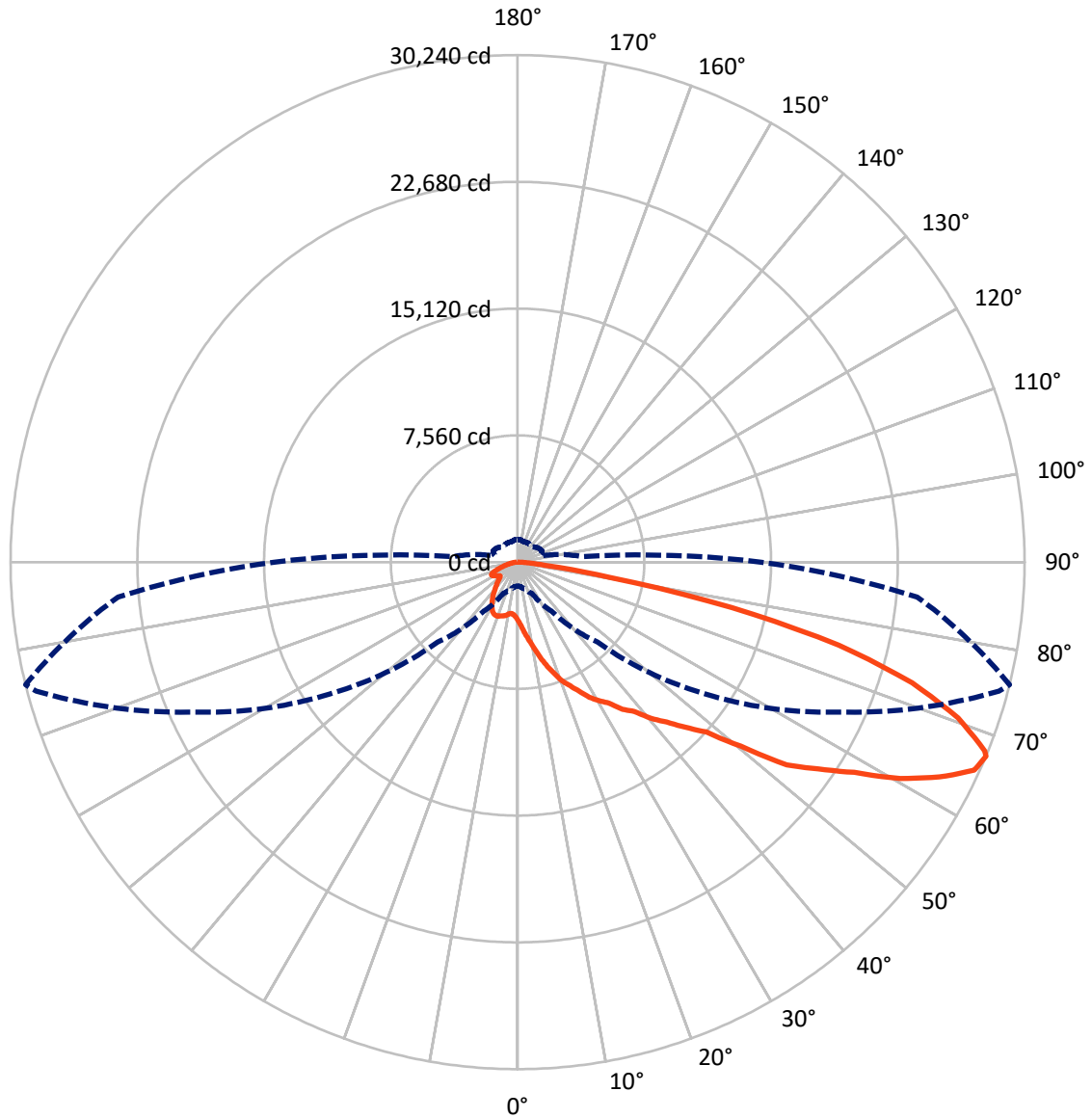
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

REPORT NUMBER: P476977
CATALOG NUMBER: IFLD-L-SA8A-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476977

CATALOG NUMBER: IFLD-L-SA8A-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4833.6	0.0	4833.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29143.2	0.0	29143.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	33976.8	0.0	33976.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	1.2
10°-20°	1510.6	4.4
20°-30°	2808.3	8.3
30°-40°	4451.9	13.1
40°-50°	6157.3	18.1
50°-60°	7573.9	22.3
60°-70°	7047.9	20.7
70°-80°	3536.6	10.4
80°-90°	487.6	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°	33976.8	100.0
0°-180°	33976.8	100.0

Coefficient of Utilization



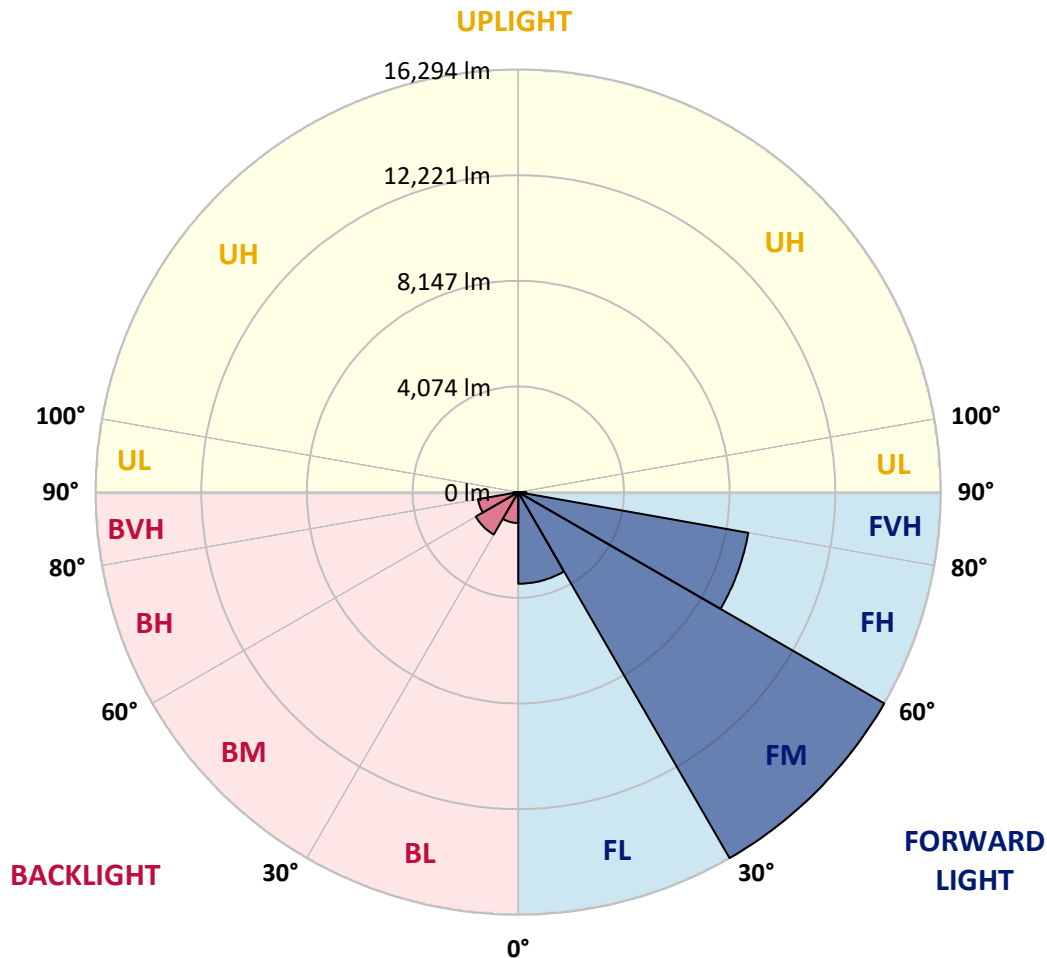
REPORT NUMBER: P476977
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3531.3	10.4			
FM (30°-60°)	16294.2	48.0			
FH (60°-80°)	9007.0	26.5			G4/12000
FVH (80°-90°)	310.7	0.9			G3/500
BL (0°-30°)	1190.3	3.5	B3/2500		
BM (30°-60°)	1888.9	5.6	B2/2500		
BH (60°-80°)	1577.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	177.0	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: P476977

CATALOG NUMBER: IFLD-L-SA8A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0
2.5°	4824.4	4766.4	4708.3	4584.4	4541.8	4425.6	4212.7	3976.5	3782.9	3755.8	3620.3
5°	5986.0	5900.8	5881.5	5811.8	5591.1	5366.5	5018.0	4638.6	4166.2	4201.1	3736.4
7.5°	6857.2	6806.9	6702.3	6636.5	6504.9	6206.7	5846.6	5343.3	4743.1	4627.0	3995.8
10°	7515.4	7445.8	7441.9	7383.8	7314.1	7008.2	6733.3	6055.7	5285.2	5126.5	4313.3
12.5°	7848.4	7836.8	8042.0	8042.0	8014.9	7887.2	7414.8	6795.3	5800.2	5746.0	4681.2
15°	8208.5	8111.7	8289.8	8425.4	8495.1	8560.9	8169.8	7515.4	6458.4	6353.9	5076.1
17.5°	8208.5	8200.8	8378.9	8603.5	8967.4	9052.6	8839.7	8177.6	7004.4	6926.9	5509.8
20°	8069.1	8181.4	8305.3	8607.3	9002.3	9346.9	9408.8	8855.1	7608.4	7546.4	6001.5
22.5°	8719.6	8611.2	8739.0	8855.1	9161.0	9683.7	9854.1	9451.4	8243.4	8007.2	6446.8
25°	9811.5	9737.9	9645.0	9474.7	9602.4	9830.9	10090.3	9892.8	8785.4	8522.2	6876.6
27.5°	10876.3	10880.2	10678.8	10307.1	10032.2	10078.7	10384.6	10280.0	9242.3	9126.2	7170.8
30°	12390.2	12297.3	12072.7	11569.4	11031.2	10589.8	10539.4	10640.1	9823.1	9598.6	7592.9
32.5°	13524.7	13544.1	13226.6	12502.5	11766.8	11406.8	10965.4	11007.9	10191.0	10024.5	7929.7
35°	14442.4	14419.1	14194.6	13594.4	12723.2	12289.6	11693.3	11449.3	11046.7	10783.4	8444.7
37.5°	15433.6	15243.9	14879.9	14202.3	13644.7	13044.6	12463.8	11914.0	11615.8	11298.3	8886.1
40°	15832.4	15832.4	15344.5	15034.8	14372.7	13919.6	13544.1	12525.7	12308.9	12247.0	9451.4
42.5°	15549.7	15724.0	15522.6	15170.3	14899.2	14326.2	14225.5	13160.7	13164.6	13040.7	10129.0
45°	15522.6	15282.6	15116.1	15205.1	15077.4	15046.4	15301.9	14039.7	14062.9	14047.4	11038.9
47.5°	14744.4	14636.0	14883.8	15030.9	15135.4	15615.6	16351.2	15089.0	15255.5	15139.3	12088.2
50°	13970.0	13950.6	14105.5	14639.8	15092.8	15882.7	17350.2	16707.4	17253.4	17245.6	13989.3
52.5°	11848.2	12053.4	12661.3	13791.9	14910.9	16246.7	18105.2	18775.1	19816.6	20099.3	15565.2
55°	9819.3	9710.8	10609.1	12250.8	14117.1	16389.9	18949.3	20018.0	21551.3	21756.5	17183.7
57.5°	7639.4	7840.7	8549.3	10125.1	12475.4	15681.4	19568.8	21245.4	23510.5	23669.2	19061.6
60°	5699.5	5726.6	6504.9	7774.9	10291.6	14082.3	19770.2	22503.8	25756.2	26209.2	21028.5
62.5°	3585.4	3748.0	4340.5	5591.1	7747.8	11844.3	18868.0	23266.5	28110.3	28230.4	23011.0
65°	1932.1	2036.6	2481.9	3267.9	5413.0	8959.7	16475.1	22809.6	29217.7	29930.1	23893.8
67°	1428.7	1448.1	1653.3	2087.0	3620.3	6744.9	13737.7	21156.3	29721.1	30239.9	23928.6
67.5°	1339.7	1366.8	1529.4	1874.0	3209.8	6210.6	13021.4	20567.8	29496.5	30054.0	23657.6
70°	1146.1	1153.8	1192.6	1289.4	1800.5	3736.4	8866.8	16854.6	27339.8	27874.1	21756.5
72.5°	1018.3	1026.1	1041.6	1060.9	1219.7	2160.5	5393.6	12971.0	23762.1	24614.0	18771.2
75°	894.4	921.5	929.3	913.8	1037.7	1405.5	2869.1	9532.7	19383.0	19797.3	14597.2
77.5°	758.9	770.5	786.0	801.5	925.4	1049.3	1378.4	6435.2	13304.0	13052.3	7894.9
80°	638.9	642.7	654.4	666.0	801.5	801.5	782.1	3477.0	5811.8	5556.2	2667.8
82.5°	456.9	484.0	511.1	542.1	666.0	538.2	511.1	1548.8	1839.2	1750.1	902.2
85°	178.1	216.8	336.9	371.7	422.0	290.4	340.7	669.8	766.6	758.9	336.9
87.5°	31.0	34.8	92.9	143.3	154.9	100.7	162.6	240.1	286.5	309.8	123.9
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: P476977
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0	3477.0
2.5°	3508.0	3388.0	3244.7	3101.4	3008.5	2861.4	2849.8	2760.7	2749.1	2718.1	2733.6
5°	3535.1	3391.8	3101.4	2873.0	2768.4	2683.3	2702.6	2663.9	2652.3	2632.9	2601.9
7.5°	3748.0	3465.4	3031.7	2834.3	2756.8	2718.1	2718.1	2671.6	2636.8	2660.0	2683.3
10°	3887.4	3500.2	3085.9	2888.5	2826.5	2741.3	2772.3	2714.2	2733.6	2687.1	2687.1
12.5°	4112.0	3697.7	3198.2	2969.8	2869.1	2791.7	2822.6	2756.8	2741.3	2745.2	2733.6
15°	4414.0	3829.4	3248.6	3016.2	2946.6	2849.8	2826.5	2768.4	2710.4	2691.0	2714.2
17.5°	4696.7	3992.0	3283.4	3043.3	2931.1	2822.6	2795.5	2722.0	2702.6	2644.5	2598.1
20°	5033.5	4185.6	3329.9	3066.6	2873.0	2764.6	2694.9	2621.3	2555.5	2520.6	2536.1
22.5°	5258.1	4286.2	3353.1	3020.1	2787.8	2687.1	2540.0	2489.7	2396.7	2358.0	2327.0
25°	5625.9	4410.1	3295.0	2892.3	2636.8	2474.2	2342.5	2272.8	2207.0	2156.7	2141.2
27.5°	5718.9	4503.1	3159.5	2675.5	2396.7	2226.4	2114.1	2028.9	1986.3	1908.9	1893.4
30°	5989.9	4410.1	2958.2	2412.2	2168.3	1994.1	1881.8	1819.8	1719.1	1699.8	1657.2
32.5°	6164.1	4437.3	2702.6	2156.7	1905.0	1750.1	1676.6	1614.6	1587.5	1494.6	1471.3
35°	6454.5	4344.3	2443.2	1920.5	1688.2	1568.1	1506.2	1486.8	1397.8	1355.2	1316.5
37.5°	6640.4	4290.1	2183.8	1653.3	1452.0	1401.6	1421.0	1339.7	1231.3	1150.0	1122.9
40°	6965.6	4270.8	1889.5	1432.6	1289.4	1277.7	1339.7	1184.8	987.3	917.7	878.9
42.5°	7434.1	4139.1	1661.1	1235.2	1161.6	1211.9	1223.5	987.3	875.1	817.0	789.9
45°	7883.3	4166.2	1436.5	1022.2	1010.6	1084.1	1057.0	836.3	770.5	727.9	751.2
47.5°	8746.7	4301.7	1215.8	851.8	909.9	979.6	820.9	747.3	685.3	654.4	658.2
50°	10082.5	4433.4	1022.2	778.3	859.6	886.7	704.7	677.6	673.7	611.8	607.9
52.5°	10884.0	4383.0	987.3	871.2	921.5	886.7	766.6	747.3	716.3	689.2	658.2
55°	12157.9	4530.2	1060.9	1018.3	1045.4	851.8	859.6	851.8	828.6	758.9	778.3
57.5°	13172.4	4627.0	1157.7	1138.4	1122.9	886.7	898.3	902.2	886.7	855.7	882.8
60°	14566.3	4820.6	1258.4	1262.3	1266.1	964.1	983.5	1006.7	1002.8	991.2	999.0
62.5°	15422.0	4731.5	1370.7	1432.6	1413.3	1122.9	1119.0	1134.5	1134.5	1153.8	1165.5
65°	15294.2	4402.4	1428.7	1583.6	1483.0	1239.0	1239.0	1246.8	1250.6	1289.4	1293.2
67°	14527.5	3813.9	1397.8	1606.9	1483.0	1285.5	1285.5	1293.2	1266.1	1366.8	1335.8
67.5°	14171.3	3639.6	1370.7	1587.5	1471.3	1281.6	1281.6	1285.5	1262.3	1359.1	1328.1
70°	12324.4	2702.6	1180.9	1405.5	1362.9	1246.8	1246.8	1223.5	1204.2	1331.9	1304.8
72.5°	10520.1	1963.1	948.6	1196.4	1231.3	1200.3	1208.0	1150.0	1095.8	1184.8	1161.6
75°	8057.5	1444.2	739.5	921.5	1041.6	1122.9	1173.2	1026.1	956.4	979.6	937.0
77.5°	4495.3	940.9	584.7	681.5	793.7	1045.4	1126.7	925.4	782.1	755.0	755.0
80°	1525.5	549.8	429.8	507.2	545.9	925.4	1053.2	751.2	615.6	588.5	569.2
82.5°	576.9	336.9	294.3	348.5	348.5	731.8	859.6	576.9	464.6	600.2	611.8
85°	263.3	201.3	193.6	201.3	201.3	449.1	607.9	375.6	418.2	360.1	317.5
87.5°	104.5	96.8	89.1	85.2	69.7	77.4	209.1	100.7	189.7	50.3	46.5
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)