

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: P476858

Luminaire Tested: **IFLD-L-SA7D-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

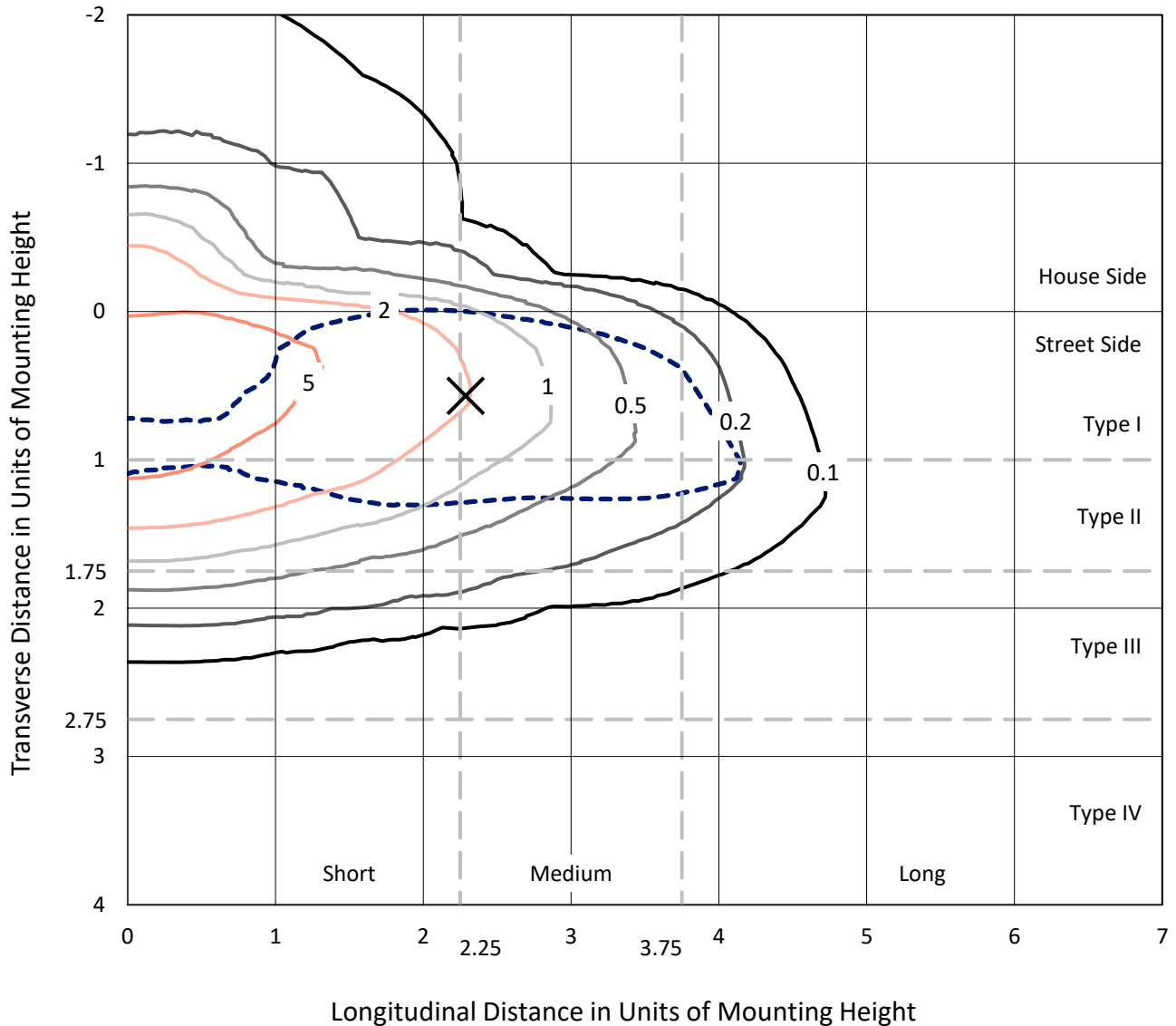
Lumens per Lamp: N/A
Luminaire Lumens: 36132.6 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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: P476858
 CATALOG NUMBER: IFLD-L-SA7D-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

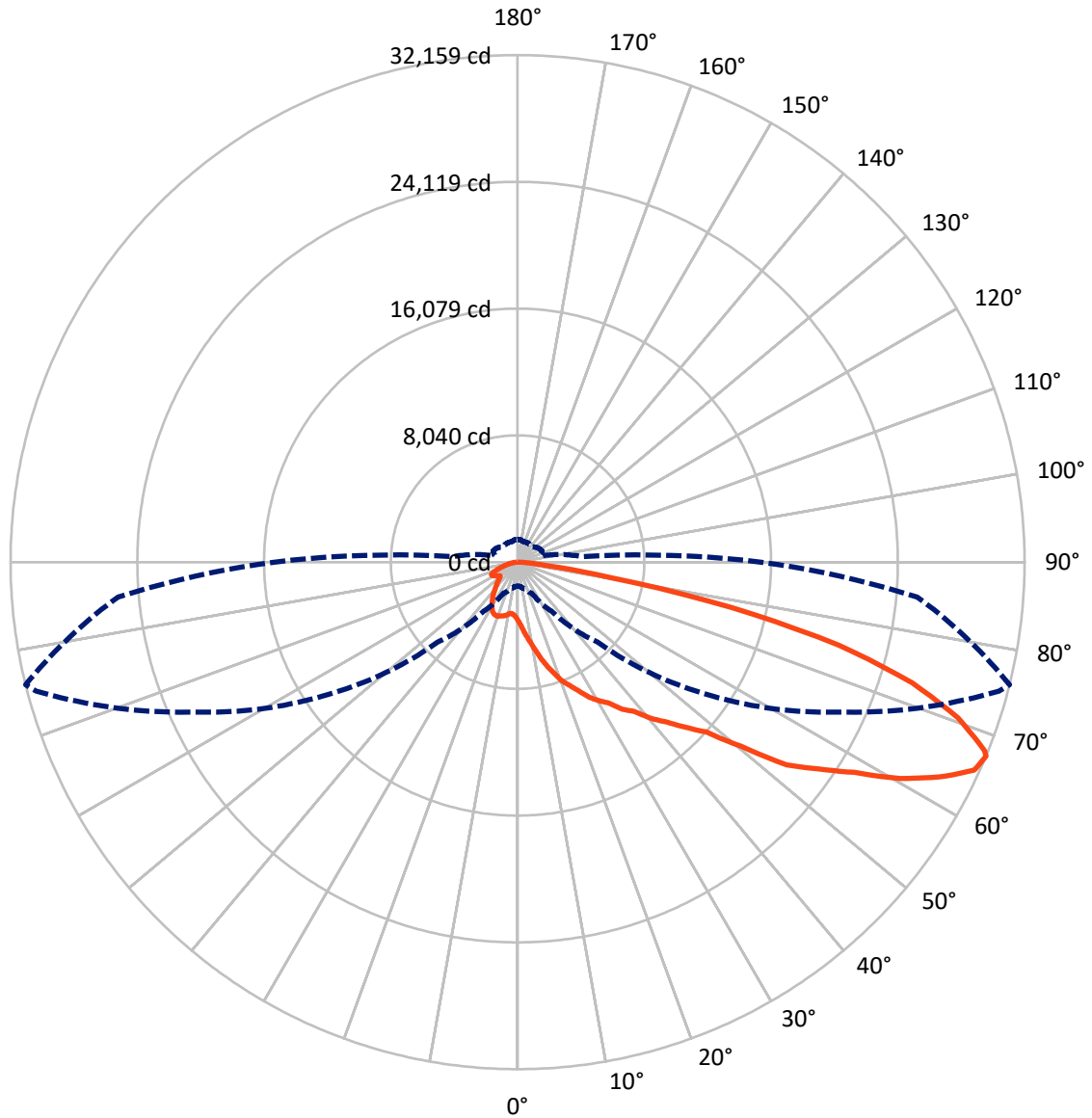
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P476858
CATALOG NUMBER: IFLD-L-SA7D-722-U-T2R

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5140.3	0.0	5140.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30992.3	0.0	30992.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	36132.6	0.0	36132.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	1.2
10°-20°	1606.4	4.4
20°-30°	2986.5	8.3
30°-40°	4734.3	13.1
40°-50°	6548.0	18.1
50°-60°	8054.4	22.3
60°-70°	7495.0	20.7
70°-80°	3761.0	10.4
80°-90°	518.6	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°	36132.6	100.0
0°-180°	36132.6	100.0

Coefficient of Utilization



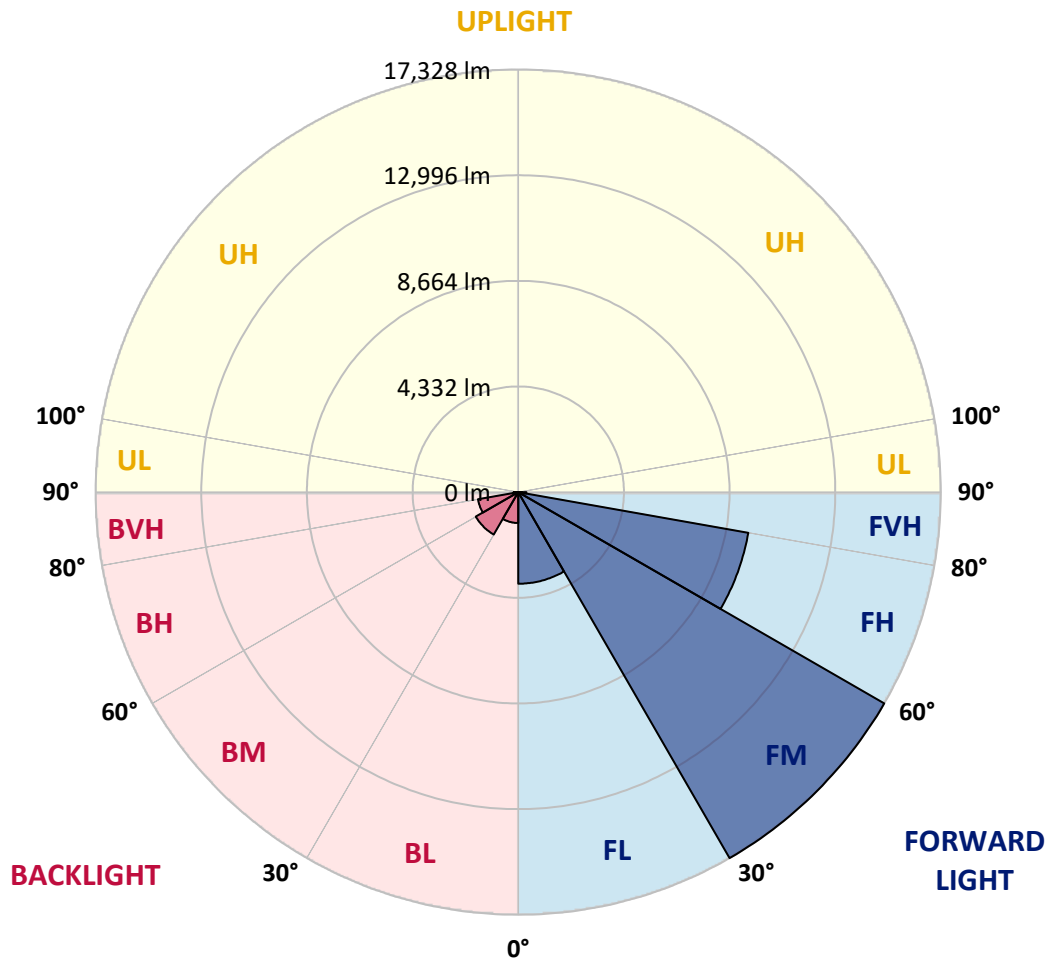
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3755.4	10.4			
FM (30°-60°)	17328.0	48.0			
FH (60°-80°)	9578.5	26.5			G4/12000
FVH (80°-90°)	330.4	0.9			G3/500
BL (0°-30°)	1265.8	3.5	B3/2500		
BM (30°-60°)	2008.7	5.6	B2/2500		
BH (60°-80°)	1677.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	188.2	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-G4

Type II Medium





REPORT NUMBER: P476858

CATALOG NUMBER: IFLD-L-SA7D-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	5130.5	5068.8	5007.0	4875.3	4830.0	4706.4	4480.0	4228.8	4022.9	3994.1	3850.0
5°	6365.8	6275.2	6254.7	6180.5	5945.8	5707.0	5336.4	4932.9	4430.6	4467.6	3973.5
7.5°	7292.3	7238.8	7127.6	7057.6	6917.6	6600.5	6217.6	5682.3	5044.1	4920.6	4249.4
10°	7992.3	7918.2	7914.1	7852.3	7778.2	7452.9	7160.5	6440.0	5620.5	5451.7	4587.0
12.5°	8346.4	8334.1	8552.3	8552.3	8523.5	8387.6	7885.2	7226.4	6168.2	6110.5	4978.2
15°	8729.3	8626.4	8815.8	8959.9	9034.1	9104.0	8688.2	7992.3	6868.2	6757.0	5398.2
17.5°	8729.3	8721.1	8910.5	9149.3	9536.4	9627.0	9400.5	8696.4	7448.8	7366.4	5859.4
20°	8581.1	8700.5	8832.3	9153.5	9573.5	9939.9	10005.8	9417.0	8091.1	8025.2	6382.3
22.5°	9272.9	9157.6	9293.5	9417.0	9742.3	10298.2	10479.3	10051.1	8766.4	8515.2	6855.8
25°	10434.0	10355.8	10257.0	10075.8	10211.7	10454.6	10730.5	10520.5	9342.9	9062.9	7312.9
27.5°	11566.4	11570.5	11356.4	10961.1	10668.7	10718.2	11043.4	10932.3	9828.8	9705.2	7625.8
30°	13176.4	13077.5	12838.7	12303.4	11731.1	11261.7	11208.2	11315.2	10446.4	10207.6	8074.6
32.5°	14382.8	14403.4	14065.8	13295.8	12513.4	12130.5	11661.1	11706.4	10837.6	10660.5	8432.9
35°	15358.7	15334.0	15095.2	14457.0	13530.5	13069.3	12435.2	12175.8	11747.6	11467.6	8980.5
37.5°	16412.8	16211.1	15824.0	15103.4	14510.5	13872.2	13254.6	12669.9	12352.8	12015.2	9449.9
40°	16836.9	16836.9	16318.1	15988.7	15284.6	14802.8	14403.4	13320.5	13089.9	13024.0	10051.1
42.5°	16536.3	16721.6	16507.5	16132.8	15844.6	15235.2	15128.1	13995.8	13999.9	13868.1	10771.7
45°	16507.5	16252.2	16075.2	16169.9	16034.0	16001.1	16272.8	14930.5	14955.2	14938.7	11739.3
47.5°	15679.9	15564.6	15828.1	15984.6	16095.8	16606.3	17388.7	16046.4	16223.4	16099.9	12855.2
50°	14856.4	14835.8	15000.5	15568.7	16050.5	16890.5	18451.0	17767.5	18348.1	18339.9	14876.9
52.5°	12599.9	12818.1	13464.6	14666.9	15856.9	17277.5	19254.0	19966.3	21074.0	21374.5	16552.8
55°	10442.3	10327.0	11282.3	13028.1	15012.8	17429.9	20151.6	21288.1	22918.7	23136.9	18274.0
57.5°	8124.1	8338.2	9091.7	10767.6	13267.0	16676.3	20810.4	22593.4	25002.2	25171.0	20271.0
60°	6061.1	6090.0	6917.6	8268.2	10944.6	14975.8	21024.5	23931.6	27390.4	27872.1	22362.8
62.5°	3812.9	3985.9	4615.8	5945.8	8239.4	12595.8	20065.1	24742.8	29893.9	30021.5	24471.0
65°	2054.7	2165.9	2639.4	3475.3	5756.4	9528.2	17520.5	24256.9	31071.5	31829.2	25409.8
67°	1519.4	1540.0	1758.2	2219.4	3850.0	7172.9	14609.3	22498.7	31606.8	32158.6	25446.9
67.5°	1424.7	1453.5	1626.5	1992.9	3413.5	6604.7	13847.5	21872.8	31368.0	31960.9	25158.6
70°	1218.8	1227.0	1268.2	1371.2	1914.7	3973.5	9429.3	17924.0	29074.5	29642.7	23136.9
72.5°	1082.9	1091.2	1107.6	1128.2	1297.0	2297.6	5735.8	13794.0	25269.8	26175.7	19962.2
75°	951.2	980.0	988.2	971.8	1103.5	1494.7	3051.2	10137.6	20612.8	21053.4	15523.4
77.5°	807.1	819.4	835.9	852.3	984.1	1115.9	1465.9	6843.5	14148.1	13880.5	8395.8
80°	679.4	683.5	695.9	708.2	852.3	852.3	831.8	3697.6	6180.5	5908.8	2837.0
82.5°	485.9	514.7	543.5	576.5	708.2	572.3	543.5	1647.0	1955.9	1861.2	959.4
85°	189.4	230.6	358.2	395.3	448.8	308.8	362.4	712.3	815.3	807.1	358.2
87.5°	32.9	37.1	98.8	152.4	164.7	107.1	172.9	255.3	304.7	329.4	131.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3730.6	3602.9	3450.6	3298.2	3199.4	3042.9	3030.6	2935.9	2923.5	2890.6	2907.0
5°	3759.4	3607.0	3298.2	3055.3	2944.1	2853.5	2874.1	2832.9	2820.6	2800.0	2767.0
7.5°	3985.9	3685.3	3224.1	3014.1	2931.7	2890.6	2890.6	2841.2	2804.1	2828.8	2853.5
10°	4134.1	3722.3	3281.7	3071.7	3005.9	2915.3	2948.2	2886.4	2907.0	2857.6	2857.6
12.5°	4372.9	3932.3	3401.2	3158.2	3051.2	2968.8	3001.7	2931.7	2915.3	2919.4	2907.0
15°	4694.1	4072.3	3454.7	3207.6	3133.5	3030.6	3005.9	2944.1	2882.3	2861.7	2886.4
17.5°	4994.7	4245.3	3491.7	3236.4	3117.0	3001.7	2972.9	2894.7	2874.1	2812.3	2762.9
20°	5352.9	4451.1	3541.1	3261.2	3055.3	2940.0	2865.9	2787.6	2717.6	2680.6	2697.0
22.5°	5591.7	4558.2	3565.9	3211.7	2964.7	2857.6	2701.2	2647.6	2548.8	2507.6	2474.7
25°	5982.9	4690.0	3504.1	3075.9	2804.1	2631.2	2491.2	2417.0	2347.0	2293.5	2277.0
27.5°	6081.7	4788.8	3360.0	2845.3	2548.8	2367.6	2248.2	2157.6	2112.3	2030.0	2013.5
30°	6370.0	4690.0	3145.9	2565.3	2305.9	2120.6	2001.2	1935.3	1828.2	1807.6	1762.3
32.5°	6555.2	4718.8	2874.1	2293.5	2025.9	1861.2	1782.9	1717.0	1688.2	1589.4	1564.7
35°	6864.1	4620.0	2598.2	2042.3	1795.3	1667.6	1601.8	1581.2	1486.5	1441.2	1400.0
37.5°	7061.7	4562.3	2322.3	1758.2	1544.1	1490.6	1511.2	1424.7	1309.4	1222.9	1194.1
40°	7407.6	4541.7	2009.4	1523.5	1371.2	1358.8	1424.7	1260.0	1050.0	975.9	934.7
42.5°	7905.8	4401.7	1766.5	1313.5	1235.3	1288.8	1301.2	1050.0	930.6	868.8	840.0
45°	8383.5	4430.6	1527.6	1087.1	1074.7	1152.9	1124.1	889.4	819.4	774.1	798.8
47.5°	9301.7	4574.7	1292.9	905.9	967.6	1041.8	872.9	794.7	728.8	695.9	700.0
50°	10722.3	4714.7	1087.1	827.6	914.1	942.9	749.4	720.6	716.5	650.6	646.5
52.5°	11574.6	4661.1	1050.0	926.5	980.0	942.9	815.3	794.7	761.8	732.9	700.0
55°	12929.3	4817.6	1128.2	1082.9	1111.8	905.9	914.1	905.9	881.2	807.1	827.6
57.5°	14008.1	4920.6	1231.2	1210.6	1194.1	942.9	955.3	959.4	942.9	910.0	938.8
60°	15490.5	5126.4	1338.2	1342.3	1346.5	1025.3	1045.9	1070.6	1066.5	1054.1	1062.3
62.5°	16400.5	5031.7	1457.6	1523.5	1502.9	1194.1	1190.0	1206.5	1206.5	1227.0	1239.4
65°	16264.6	4681.7	1519.4	1684.1	1577.0	1317.6	1317.6	1325.9	1330.0	1371.2	1375.3
67°	15449.3	4055.9	1486.5	1708.8	1577.0	1367.0	1367.0	1375.3	1346.5	1453.5	1420.6
67.5°	15070.5	3870.6	1457.6	1688.2	1564.7	1362.9	1362.9	1367.0	1342.3	1445.3	1412.3
70°	13106.4	2874.1	1255.9	1494.7	1449.4	1325.9	1325.9	1301.2	1280.6	1416.5	1387.6
72.5°	11187.6	2087.6	1008.8	1272.3	1309.4	1276.5	1284.7	1222.9	1165.3	1260.0	1235.3
75°	8568.8	1535.9	786.5	980.0	1107.6	1194.1	1247.6	1091.2	1017.1	1041.8	996.5
77.5°	4780.6	1000.6	621.8	724.7	844.1	1111.8	1198.2	984.1	831.8	802.9	802.9
80°	1622.3	584.7	457.1	539.4	580.6	984.1	1120.0	798.8	654.7	625.9	605.3
82.5°	613.5	358.2	312.9	370.6	370.6	778.2	914.1	613.5	494.1	638.2	650.6
85°	280.0	214.1	205.9	214.1	214.1	477.6	646.5	399.4	444.7	382.9	337.6
87.5°	111.2	102.9	94.7	90.6	74.1	82.4	222.4	107.1	201.8	53.5	49.4
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)