

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: P476939

Luminaire Tested: **IFLD-L-SA8B-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476939
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

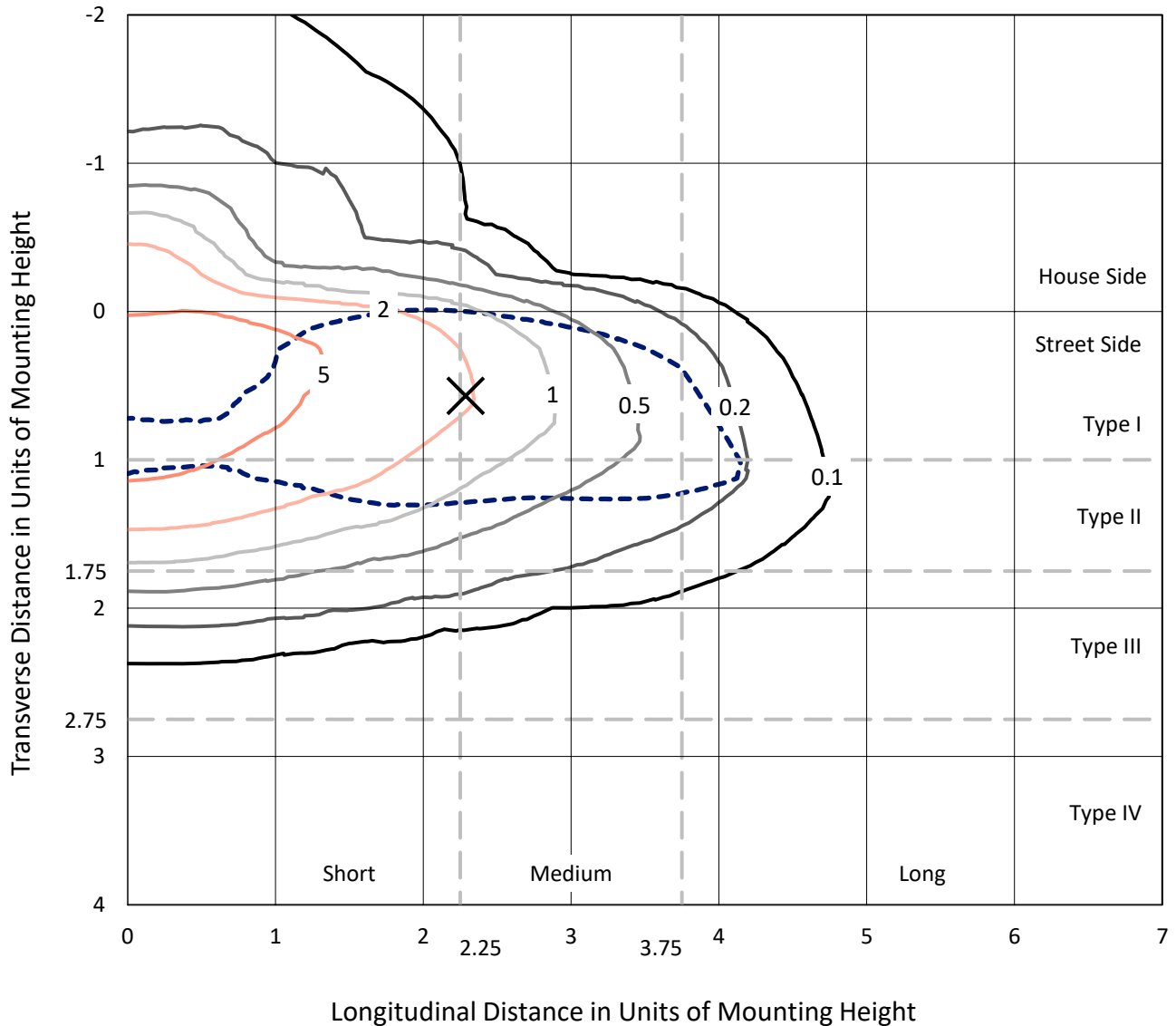
Lumens per Lamp: N/A
Luminaire Lumens: 37268.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

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Iso-Footcandle Lines of Horizontal Illumination

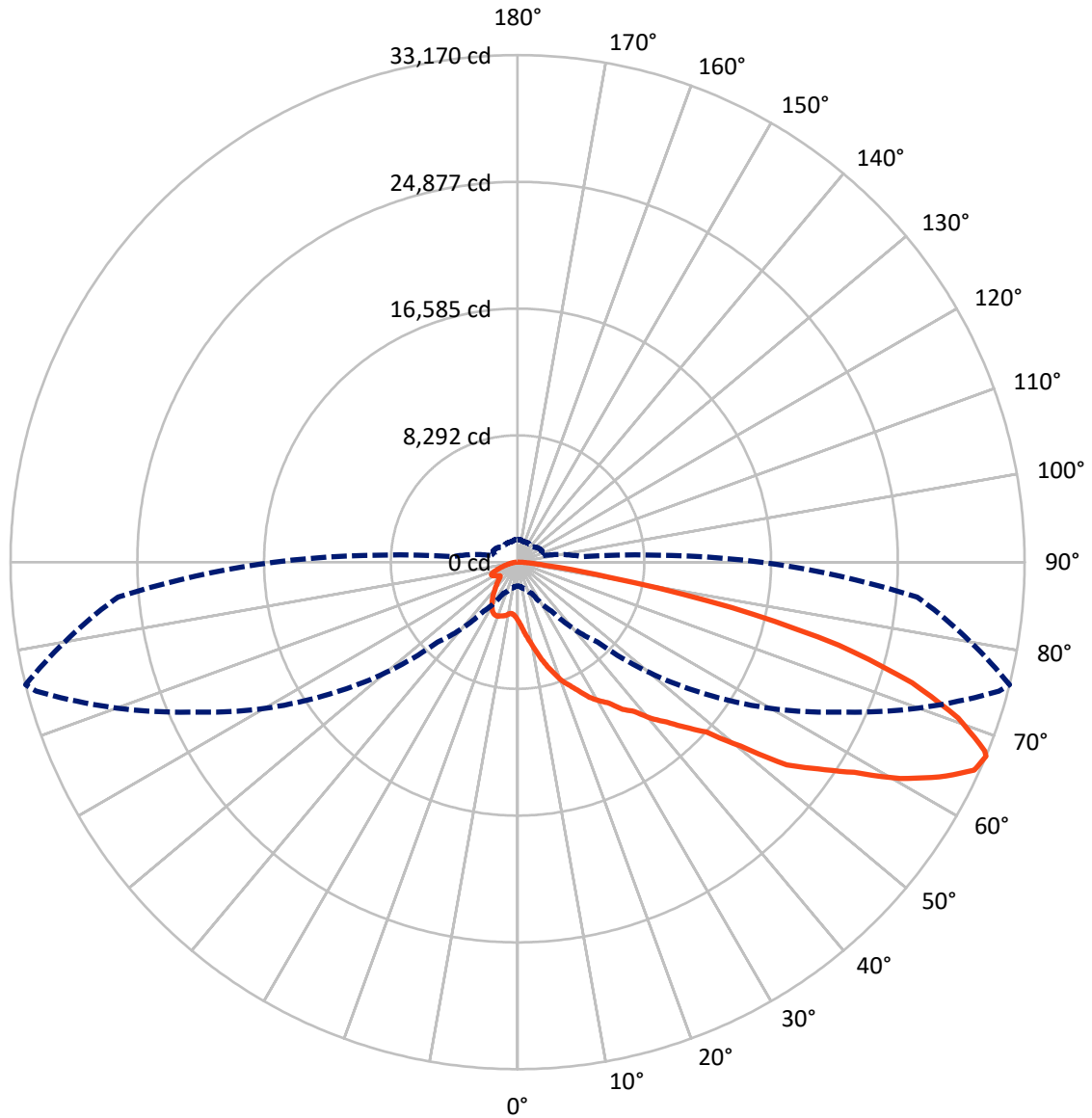
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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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	5301.9	0.0	5301.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31966.6	0.0	31966.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	37268.5	0.0	37268.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.2
10°-20°	1656.9	4.4
20°-30°	3080.4	8.3
30°-40°	4883.2	13.1
40°-50°	6753.8	18.1
50°-60°	8307.7	22.3
60°-70°	7730.7	20.7
70°-80°	3879.2	10.4
80°-90°	534.9	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°	37268.5	100.0
0°-180°	37268.5	100.0

Coefficient of Utilization

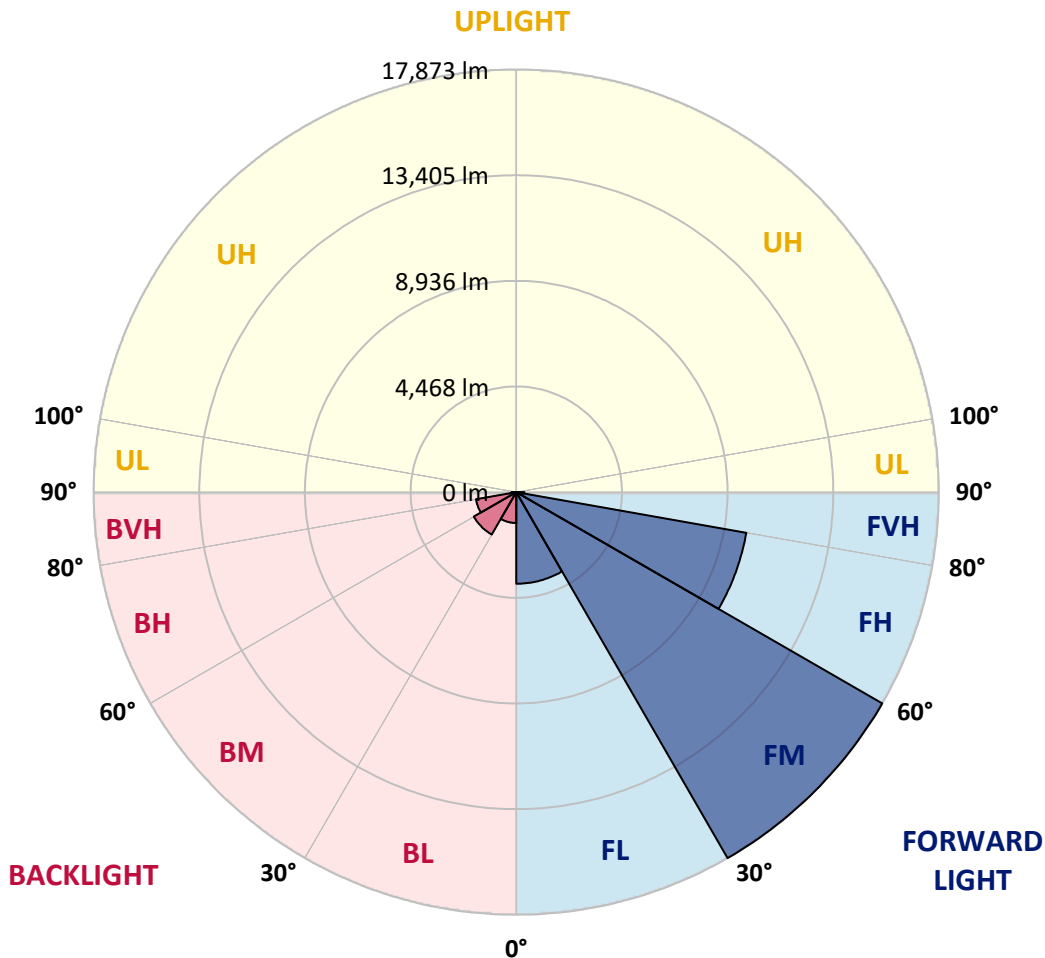


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3873.5	10.4			
FM (30°-60°)	17872.8	48.0			
FH (60°-80°)	9879.6	26.5			G4/12000
FVH (80°-90°)	340.8	0.9			G3/500
BL (0°-30°)	1305.6	3.5	B3/2500		
BM (30°-60°)	2071.9	5.6	B2/2500		
BH (60°-80°)	1730.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	194.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9
2.5°	5291.8	5228.1	5164.4	5028.5	4981.8	4854.4	4620.8	4361.7	4149.4	4119.7	3971.0
5°	6566.0	6472.5	6451.3	6374.8	6132.8	5886.4	5504.2	5088.0	4569.8	4608.1	4098.4
7.5°	7521.5	7466.3	7351.7	7279.5	7135.1	6808.0	6413.1	5860.9	5202.7	5075.2	4383.0
10°	8243.5	8167.1	8162.9	8099.1	8022.7	7687.2	7385.6	6642.4	5797.2	5623.1	4731.2
12.5°	8608.8	8596.1	8821.1	8821.1	8791.4	8651.3	8133.1	7453.6	6362.1	6302.6	5134.7
15°	9003.8	8897.6	9093.0	9241.6	9318.1	9390.3	8961.3	8243.5	7084.1	6969.4	5567.9
17.5°	9003.8	8995.3	9190.6	9437.0	9836.2	9929.6	9696.0	8969.8	7682.9	7598.0	6043.6
20°	8850.9	8974.0	9109.9	9441.2	9874.4	10252.4	10320.4	9713.0	8345.5	8277.5	6582.9
22.5°	9564.4	9445.5	9585.6	9713.0	10048.5	10621.9	10808.8	10367.1	9042.0	8782.9	7071.4
25°	10762.1	10681.4	10579.4	10392.6	10532.7	10783.3	11067.8	10851.2	9636.6	9347.8	7542.8
27.5°	11930.0	11934.2	11713.4	11305.7	11004.1	11055.1	11390.6	11276.0	10137.7	10010.3	7865.6
30°	13590.6	13488.7	13242.3	12690.2	12099.9	11615.7	11560.5	11670.9	10774.8	10528.5	8328.5
32.5°	14835.0	14856.2	14508.0	13713.8	12906.8	12511.8	12027.7	12074.4	11178.3	10995.6	8698.0
35°	15841.5	15816.1	15569.7	14911.4	13955.8	13480.2	12826.1	12558.6	12116.9	11828.1	9262.8
37.5°	16928.8	16720.7	16321.5	15578.2	14966.6	14308.4	13671.3	13068.2	12741.2	12392.9	9747.0
40°	17366.2	17366.2	16831.1	16491.3	15765.1	15268.2	14856.2	13739.2	13501.4	13433.5	10367.1
42.5°	17056.2	17247.3	17026.5	16640.0	16342.7	15714.1	15603.7	14435.8	14440.0	14304.1	11110.3
45°	17026.5	16763.2	16580.5	16678.2	16538.1	16504.1	16784.4	15399.8	15425.3	15408.3	12108.4
47.5°	16172.8	16053.9	16325.7	16487.1	16601.8	17128.4	17935.3	16550.8	16733.4	16606.0	13259.3
50°	15323.4	15302.2	15472.0	16058.1	16555.0	17421.4	19031.1	18326.1	18924.9	18916.4	15344.6
52.5°	12996.0	13221.1	13887.9	15128.0	16355.4	17820.7	19859.3	20594.0	21736.5	22046.5	17073.2
55°	10770.6	10651.6	11637.0	13437.7	15484.8	17977.8	20785.1	21957.3	23639.1	23864.2	18848.5
57.5°	8379.5	8600.3	9377.5	11106.1	13684.0	17200.6	21464.7	23303.6	25788.2	25962.3	20908.3
60°	6251.7	6281.4	7135.1	8528.1	11288.7	15446.6	21685.5	24683.9	28251.5	28748.4	23065.8
62.5°	3932.8	4111.2	4761.0	6132.8	8498.4	12991.8	20695.9	25520.6	30833.7	30965.3	25240.3
65°	2119.3	2234.0	2722.4	3584.5	5937.4	9827.7	18071.3	25019.4	32048.3	32829.8	26208.6
67°	1567.2	1588.4	1813.5	2289.2	3971.0	7398.4	15068.6	23205.9	32600.5	33169.6	26246.8
67.5°	1469.5	1499.2	1677.6	2055.6	3520.8	6812.3	14282.9	22560.4	32354.1	32965.7	25949.6
70°	1257.1	1265.6	1308.1	1414.3	1974.9	4098.4	9725.8	18487.5	29988.5	30574.6	23864.2
72.5°	1117.0	1125.5	1142.5	1163.7	1337.8	2369.9	5916.2	14227.7	26064.2	26998.6	20589.8
75°	981.1	1010.8	1019.3	1002.3	1138.2	1541.7	3147.1	10456.3	21260.8	21715.2	16011.4
77.5°	832.4	845.2	862.2	879.1	1015.0	1151.0	1512.0	7058.6	14592.9	14316.8	8659.8
80°	700.8	705.0	717.8	730.5	879.1	879.1	857.9	3813.9	6374.8	6094.5	2926.2
82.5°	501.2	530.9	560.6	594.6	730.5	590.3	560.6	1698.8	2017.4	1919.7	989.6
85°	195.4	237.8	369.5	407.7	462.9	318.5	373.7	734.7	840.9	832.4	369.5
87.5°	34.0	38.2	101.9	157.1	169.9	110.4	178.4	263.3	314.3	339.8	135.9
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°	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9
2.5°	3847.8	3716.2	3559.0	3401.9	3300.0	3138.6	3125.8	3028.2	3015.4	2981.4	2998.4
5°	3877.6	3720.4	3401.9	3151.3	3036.6	2943.2	2964.4	2922.0	2909.2	2888.0	2854.0
7.5°	4111.2	3801.1	3325.4	3108.8	3023.9	2981.4	2981.4	2930.5	2892.2	2917.7	2943.2
10°	4264.1	3839.3	3384.9	3168.3	3100.4	3006.9	3040.9	2977.2	2998.4	2947.5	2947.5
12.5°	4510.4	4055.9	3508.1	3257.5	3147.1	3062.1	3096.1	3023.9	3006.9	3011.2	2998.4
15°	4841.7	4200.3	3563.3	3308.5	3232.0	3125.8	3100.4	3036.6	2972.9	2951.7	2977.2
17.5°	5151.7	4378.7	3601.5	3338.2	3215.0	3096.1	3066.4	2985.7	2964.4	2900.7	2849.8
20°	5521.2	4591.1	3652.5	3363.7	3151.3	3032.4	2956.0	2875.3	2803.1	2764.8	2781.8
22.5°	5767.5	4701.5	3678.0	3312.7	3057.9	2947.5	2786.1	2730.9	2628.9	2586.5	2552.5
25°	6171.0	4837.4	3614.3	3172.6	2892.2	2713.9	2569.5	2493.0	2420.8	2365.6	2348.6
27.5°	6272.9	4939.3	3465.6	2934.7	2628.9	2442.1	2318.9	2225.5	2178.7	2093.8	2076.8
30°	6570.2	4837.4	3244.8	2645.9	2378.4	2187.2	2064.1	1996.1	1885.7	1864.5	1817.7
32.5°	6761.3	4867.1	2964.4	2365.6	2089.6	1919.7	1839.0	1771.0	1741.3	1639.4	1613.9
35°	7079.9	4765.2	2679.9	2106.5	1851.7	1720.1	1652.1	1630.9	1533.2	1486.5	1444.0
37.5°	7283.7	4705.7	2395.3	1813.5	1592.6	1537.4	1558.7	1469.5	1350.6	1261.4	1231.6
40°	7640.5	4684.5	2072.6	1571.4	1414.3	1401.5	1469.5	1299.6	1083.0	1006.6	964.1
42.5°	8154.4	4540.1	1822.0	1354.8	1274.1	1329.3	1342.1	1083.0	959.8	896.1	866.4
45°	8647.0	4569.8	1575.7	1121.2	1108.5	1189.2	1159.4	917.4	845.2	798.4	823.9
47.5°	9594.1	4718.5	1333.6	934.4	998.1	1074.5	900.4	819.7	751.7	717.8	722.0
50°	11059.4	4862.9	1121.2	853.7	942.8	972.6	773.0	743.2	739.0	671.0	666.8
52.5°	11938.5	4807.7	1083.0	955.6	1010.8	972.6	840.9	819.7	785.7	756.0	722.0
55°	13335.8	4969.1	1163.7	1117.0	1146.7	934.4	942.8	934.4	908.9	832.4	853.7
57.5°	14448.5	5075.2	1269.9	1248.6	1231.6	972.6	985.3	989.6	972.6	938.6	968.3
60°	15977.4	5287.6	1380.3	1384.5	1388.8	1057.5	1078.8	1104.2	1100.0	1087.2	1095.7
62.5°	16916.0	5189.9	1503.5	1571.4	1550.2	1231.6	1227.4	1244.4	1244.4	1265.6	1278.4
65°	16775.9	4828.9	1567.2	1737.0	1626.6	1359.1	1359.1	1367.6	1371.8	1414.3	1418.5
67°	15935.0	4183.4	1533.2	1762.5	1626.6	1410.0	1410.0	1418.5	1388.8	1499.2	1465.2
67.5°	15544.2	3992.2	1503.5	1741.3	1613.9	1405.8	1405.8	1410.0	1384.5	1490.7	1456.7
70°	13518.4	2964.4	1295.4	1541.7	1495.0	1367.6	1367.6	1342.1	1320.8	1461.0	1431.3
72.5°	11539.3	2153.3	1040.5	1312.3	1350.6	1316.6	1325.1	1261.4	1201.9	1299.6	1274.1
75°	8838.1	1584.2	811.2	1010.8	1142.5	1231.6	1286.9	1125.5	1049.0	1074.5	1027.8
77.5°	4930.8	1032.0	641.3	747.5	870.6	1146.7	1235.9	1015.0	857.9	828.2	828.2
80°	1673.3	603.1	471.4	556.4	598.8	1015.0	1155.2	823.9	675.3	645.6	624.3
82.5°	632.8	369.5	322.8	382.2	382.2	802.7	942.8	632.8	509.6	658.3	671.0
85°	288.8	220.8	212.4	220.8	220.8	492.7	666.8	412.0	458.7	395.0	348.3
87.5°	114.7	106.2	97.7	93.4	76.4	84.9	229.3	110.4	208.1	55.2	51.0
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)