

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: P480949

Luminaire Tested: **IFLD-M-SA4E-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480949
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

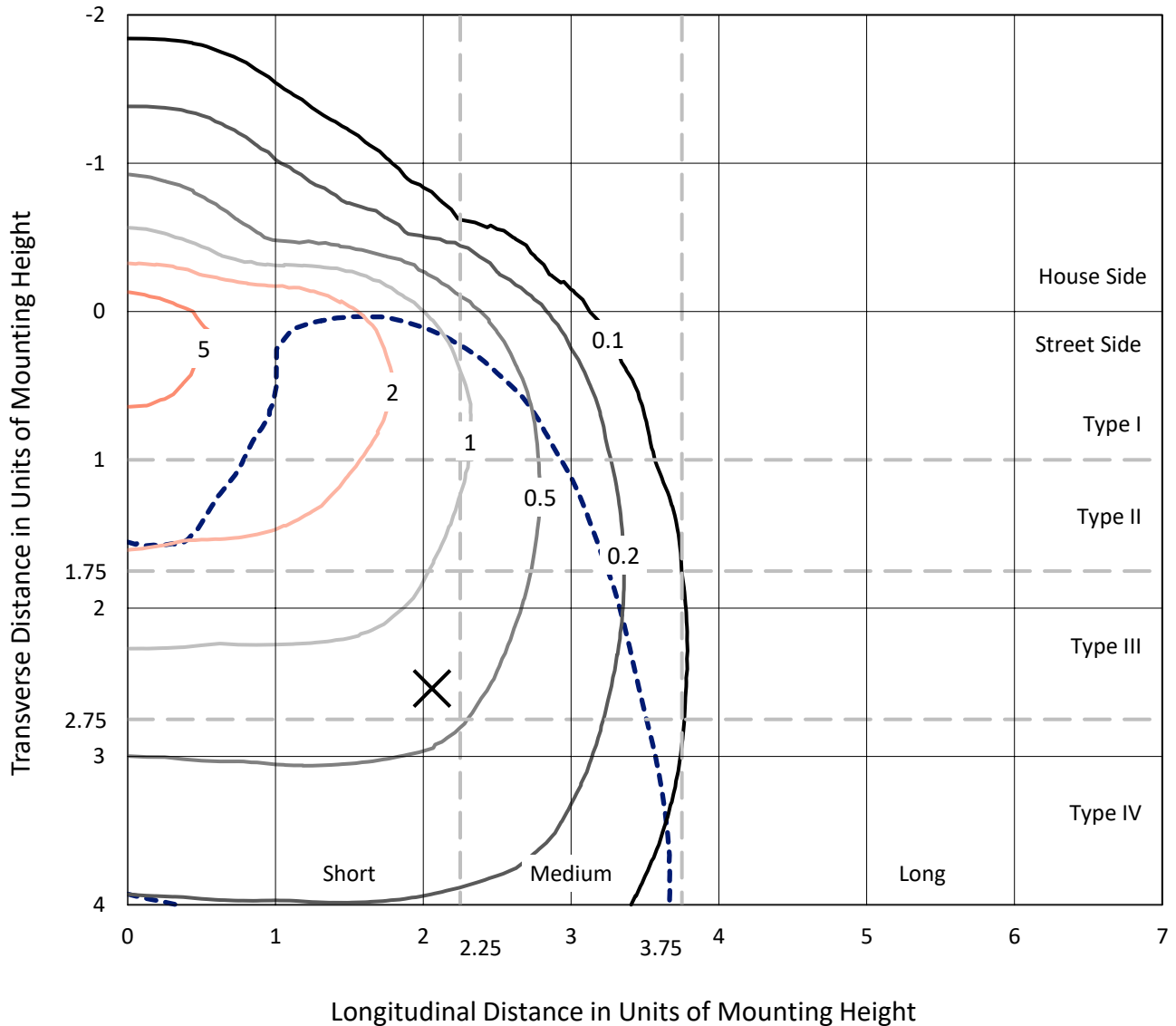
Lumens per Lamp: N/A
Luminaire Lumens: 35821.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

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Iso-Footcandle Lines of Horizontal Illumination

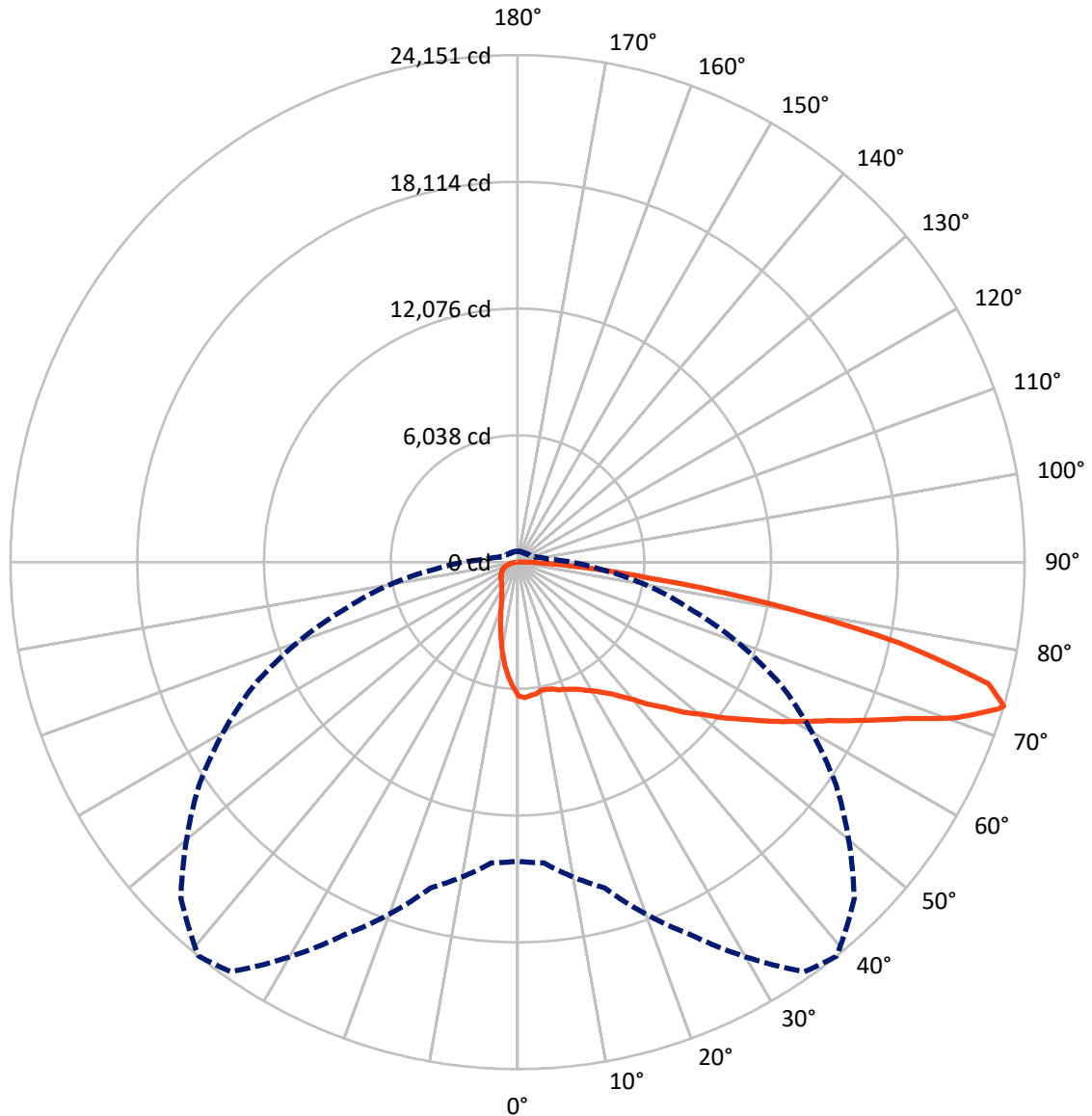
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5035.6	0.0	5035.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	30786.4	0.0	30786.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	35821.9	0.0	35821.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.5	1.5
10°-20°	1407.2	3.9
20°-30°	2150.3	6.0
30°-40°	3135.2	8.8
40°-50°	4737.6	13.2
50°-60°	6860.3	19.2
60°-70°	8716.4	24.3
70°-80°	7066.0	19.7
80°-90°	1195.5	3.3
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°	35821.9	100.0
0°-180°	35821.9	100.0

Coefficient of Utilization



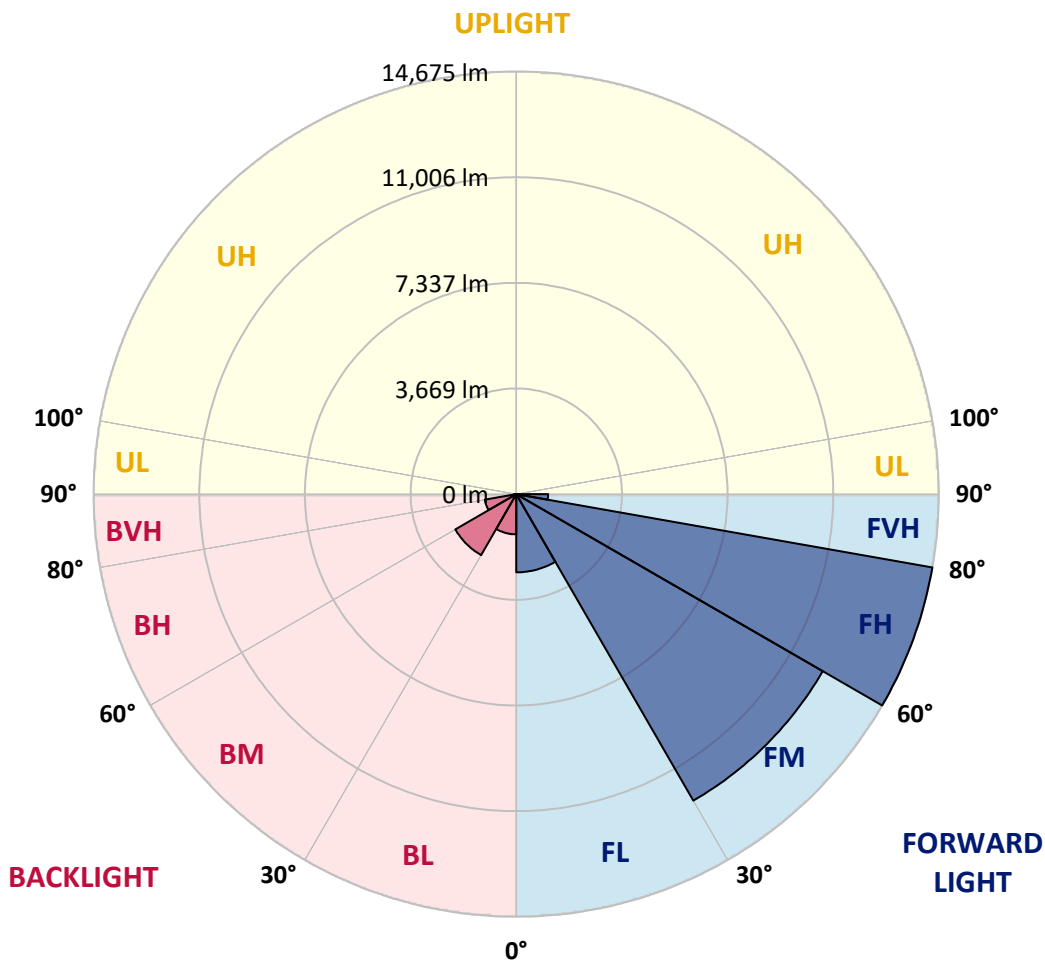
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.5	7.6			
FM (30°-60°)	12289.2	34.3			
FH (60°-80°)	14674.8	41.0			G5
FVH (80°-90°)	1107.8	3.1			G5
BL (0°-30°)	1396.5	3.9	B3/2500		
BM (30°-60°)	2443.9	6.8	B2/2500		
BH (60°-80°)	1107.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	87.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5
2.5°	6528.8	6460.7	6472.7	6448.7	6472.7	6464.7	6452.7	6392.6	6452.7	6392.6	6376.5
5°	6440.6	6440.6	6480.7	6420.6	6428.6	6388.5	6428.6	6384.5	6344.5	6244.3	6216.2
7.5°	6412.6	6408.6	6412.6	6328.4	6368.5	6344.5	6304.4	6256.3	6176.1	6112.0	6019.8
10°	6220.2	6260.3	6216.2	6240.3	6272.3	6200.2	6196.2	6184.1	6148.1	6063.9	6007.8
12.5°	6116.0	6184.1	6208.2	6188.2	6216.2	6224.2	6200.2	6184.1	6140.1	6083.9	5923.6
15°	6160.1	6079.9	6148.1	6280.3	6252.3	6272.3	6276.3	6260.3	6240.3	6136.0	6031.8
17.5°	6172.1	6124.0	6268.3	6296.4	6332.4	6404.6	6356.5	6352.5	6276.3	6204.2	6051.9
20°	6200.2	6180.1	6296.4	6444.7	6448.7	6460.7	6484.7	6424.6	6384.5	6260.3	6027.8
22.5°	6304.4	6372.5	6480.7	6544.9	6580.9	6588.9	6588.9	6468.7	6424.6	6324.4	6140.1
25°	6617.0	6544.9	6697.2	6773.3	6721.2	6709.2	6681.1	6572.9	6524.8	6436.6	6192.2
27.5°	6845.4	6841.4	6929.6	7033.8	6893.5	6921.6	6821.4	6789.3	6681.1	6633.0	6284.3
30°	7158.1	7246.2	7242.2	7274.3	7089.9	7122.0	6993.7	6933.6	6873.5	6901.6	6556.9
32.5°	7558.8	7526.8	7578.9	7554.8	7370.5	7398.5	7246.2	7154.0	7174.1	7258.3	6929.6
35°	7815.3	7783.3	7803.3	7803.3	7747.2	7715.2	7651.0	7530.8	7627.0	7783.3	7346.4
37.5°	8091.9	8132.0	8248.2	8224.1	8152.0	8152.0	8144.0	8059.8	8184.1	8568.8	8011.7
40°	8336.4	8444.6	8516.7	8564.8	8649.0	8649.0	8717.1	8669.0	8893.5	9510.7	8825.3
42.5°	8592.9	8596.9	8989.7	9025.7	9214.1	9294.3	9346.4	9386.4	9807.3	10496.6	9695.0
45°	8921.5	8941.6	9286.2	9562.8	9855.4	9883.4	10079.8	10212.1	10729.1	11574.7	10640.9
47.5°	9354.4	9330.3	9699.0	10139.9	10504.6	10697.0	10933.5	11077.8	11715.0	12745.0	11674.9
50°	9923.5	9851.3	10063.8	10757.1	11186.0	11398.4	11819.2	12059.7	12805.1	13863.2	12384.3
52.5°	10616.8	10496.6	10664.9	11422.4	11903.4	12332.2	12733.0	13001.5	13779.1	14728.9	12909.4
55°	11350.3	11101.8	11149.9	12127.8	12821.2	13226.0	13775.1	14055.6	14849.2	15506.5	13434.4
57.5°	12075.7	11919.4	11823.2	12805.1	13915.3	14304.1	14809.1	15173.8	15847.1	16195.8	13879.3
60°	12684.9	12644.8	12488.5	13855.2	15073.6	15406.3	15935.3	16159.7	16668.7	16833.1	13887.3
62.5°	13185.9	13049.6	13298.1	14700.9	16251.9	16628.7	17209.8	17229.8	17590.5	17229.8	13478.5
65°	13578.7	13586.7	13983.5	15722.9	17614.6	18171.7	18640.6	18588.5	18356.0	16993.4	12512.6
67.5°	13935.4	14087.7	14668.8	16845.1	19366.0	19891.1	20412.1	19722.7	18564.5	15887.2	10624.9
70°	14215.9	14368.2	15594.6	18211.8	21430.1	22199.6	22315.8	20171.6	17606.6	13458.4	8015.7
72.5°	14183.9	14460.4	16119.7	19301.9	23261.7	23927.0	22989.1	18909.1	14668.8	9382.4	4677.2
73°	14252.0	14388.3	16075.6	19606.5	23818.8	24151.4	22676.5	18512.4	13835.2	8416.5	3955.8
75°	12937.4	13398.3	15278.0	19109.5	23221.6	23161.5	20881.0	15426.3	9835.3	4420.7	1915.8
77.5°	9570.8	9863.4	12039.6	15714.9	19061.4	18676.7	15750.9	9859.4	4669.2	1639.2	1034.0
80°	4677.2	4905.6	6380.5	9073.8	12464.5	12496.5	9775.2	5130.1	1999.9	925.8	705.4
82.5°	2336.6	2472.9	3066.0	3987.8	6132.0	6424.6	4957.7	2917.7	1238.4	525.0	400.8
85°	1527.0	1623.2	1887.7	1951.8	2601.1	2745.4	2308.5	2276.5	805.6	284.6	324.6
87.5°	1014.0	1030.0	1158.3	985.9	1042.0	1002.0	1114.2	1434.8	236.5	120.2	88.2
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°	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5	6376.5
2.5°	6356.5	6300.4	6240.3	6156.1	6096.0	6003.8	5919.6	5883.6	5875.5	5879.5	5839.5
5°	6192.2	6112.0	5991.8	5819.4	5719.2	5566.9	5438.7	5370.5	5298.4	5310.4	5278.4
7.5°	5963.7	5875.5	5691.2	5490.8	5242.3	5025.9	4905.6	4737.3	4641.1	4569.0	4609.1
10°	5891.6	5739.3	5462.7	5186.2	4801.4	4516.9	4240.3	4047.9	3915.7	3787.4	3843.5
12.5°	5855.5	5703.2	5318.4	4909.6	4412.7	3979.8	3591.1	3354.6	3166.2	3054.0	3098.1
15°	5823.4	5635.1	5182.2	4605.0	4047.9	3478.8	3042.0	2729.4	2549.0	2440.8	2452.8
17.5°	5867.5	5599.0	4981.8	4308.5	3647.2	3038.0	2553.0	2228.4	2044.0	1975.9	1959.8
20°	5823.4	5558.9	4785.4	4011.9	3246.4	2617.1	2152.2	1883.7	1755.4	1699.3	1687.3
22.5°	5839.5	5462.7	4581.0	3683.2	2873.6	2264.4	1883.7	1679.3	1579.1	1551.0	1559.1
25°	5915.6	5406.6	4376.6	3322.5	2504.9	2003.9	1711.4	1555.1	1482.9	1454.9	1462.9
27.5°	5971.7	5454.7	4192.2	2981.9	2192.3	1771.5	1567.1	1462.9	1414.8	1394.7	1390.7
30°	6112.0	5482.8	4011.9	2677.3	1935.8	1619.2	1466.9	1382.7	1350.7	1338.6	1334.6
32.5°	6320.4	5534.9	3803.5	2396.7	1747.4	1474.9	1386.7	1314.6	1306.6	1294.5	1298.5
35°	6661.1	5715.2	3571.0	2156.2	1567.1	1378.7	1302.6	1254.5	1254.5	1254.5	1266.5
37.5°	7150.0	5967.7	3362.6	1927.8	1450.8	1294.5	1230.4	1214.4	1206.4	1218.4	1226.4
40°	7779.3	6272.3	3194.3	1747.4	1350.7	1238.4	1182.3	1174.3	1170.3	1166.3	1174.3
42.5°	8468.6	6661.1	3050.0	1607.2	1278.5	1178.3	1138.2	1130.2	1114.2	1122.2	1134.2
45°	9154.0	7142.0	2921.7	1494.9	1230.4	1146.3	1090.1	1086.1	1078.1	1074.1	1094.1
47.5°	9915.5	7615.0	2881.7	1426.8	1194.3	1098.2	1058.1	1054.1	1030.0	1026.0	1042.0
50°	10508.6	7963.6	2925.7	1394.7	1142.2	1062.1	1034.0	1014.0	994.0	973.9	973.9
52.5°	10917.4	8204.1	2957.8	1370.7	1114.2	1014.0	977.9	969.9	949.9	929.8	921.8
55°	11286.2	8348.4	2965.8	1374.7	1086.1	957.9	933.8	929.8	917.8	885.7	877.7
57.5°	11410.4	8288.3	2805.5	1338.6	1070.1	921.8	889.7	897.8	881.7	853.7	849.7
60°	11398.4	7871.5	2440.8	1290.5	1034.0	881.7	841.7	865.7	865.7	833.6	829.6
62.5°	10705.0	6909.6	1995.9	1198.4	994.0	841.7	797.6	833.6	845.7	825.6	821.6
65°	9266.2	5627.0	1667.3	1106.2	933.8	797.6	753.5	793.6	813.6	805.6	801.6
67.5°	7667.1	4304.5	1386.7	985.9	857.7	737.4	701.4	729.4	741.5	745.5	749.5
70°	5418.6	2865.6	1158.3	853.7	753.5	673.3	633.2	637.3	633.2	645.3	645.3
72.5°	2945.8	1651.2	941.8	725.4	649.3	585.1	557.1	537.1	537.1	533.0	533.0
73°	2521.0	1482.9	897.8	705.4	621.2	569.1	537.1	521.0	521.0	517.0	513.0
75°	1414.8	1086.1	769.5	605.2	537.1	497.0	472.9	448.9	444.9	444.9	444.9
77.5°	929.8	845.7	613.2	485.0	432.8	396.8	388.8	364.7	364.7	364.7	360.7
80°	697.4	665.3	472.9	368.7	332.7	304.6	296.6	280.6	276.5	260.5	264.5
82.5°	464.9	525.0	344.7	260.5	224.4	208.4	208.4	204.4	192.4	172.3	172.3
85°	368.7	428.8	248.5	160.3	132.3	112.2	116.2	112.2	108.2	88.2	84.2
87.5°	68.1	172.3	72.1	44.1	32.1	20.0	20.0	12.0	8.0	0.0	0.0
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)