

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: P480918

Luminaire Tested: **IFLD-L-SA8C-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480918
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

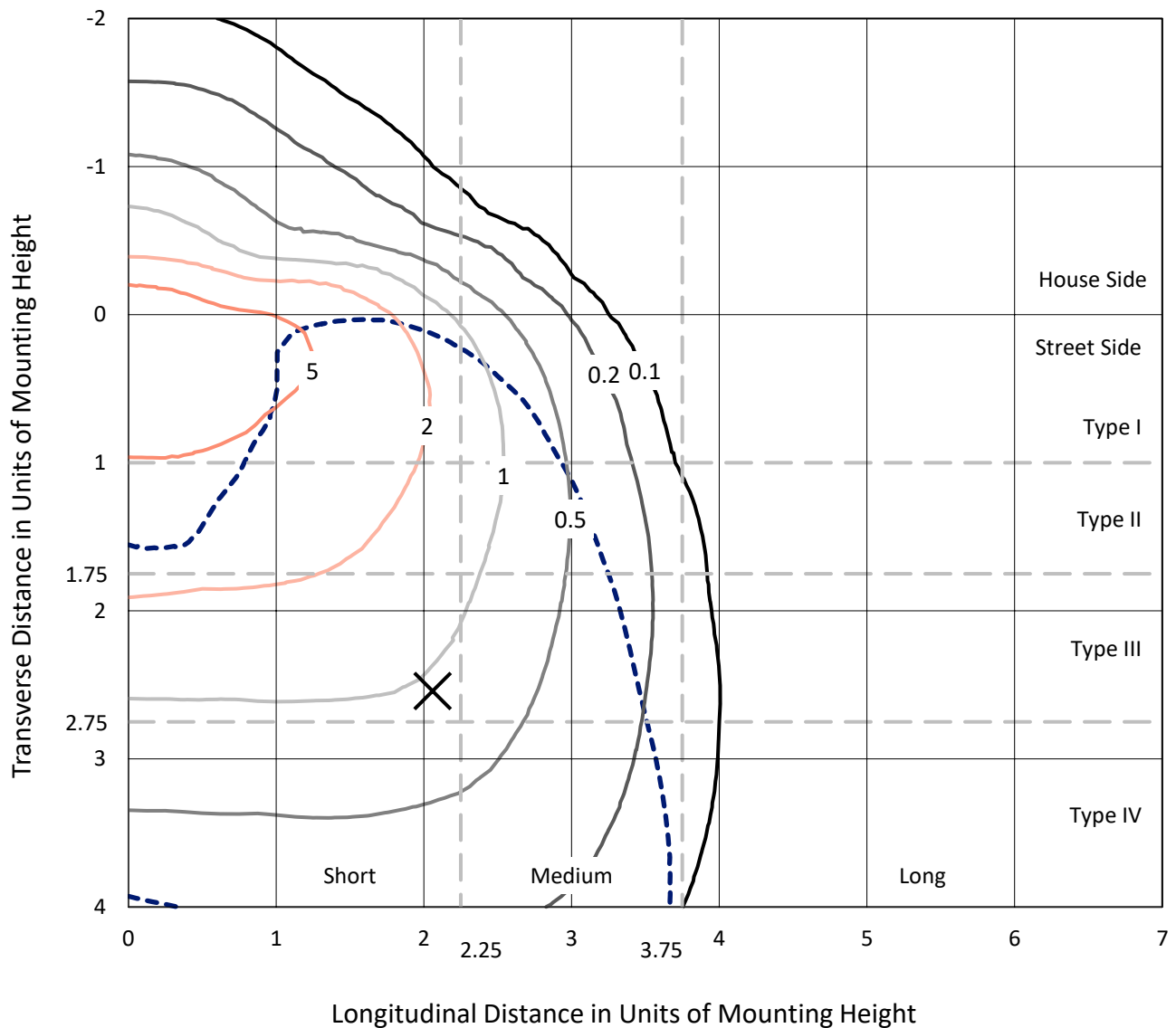
Lumens per Lamp: N/A
Luminaire Lumens: 49006.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

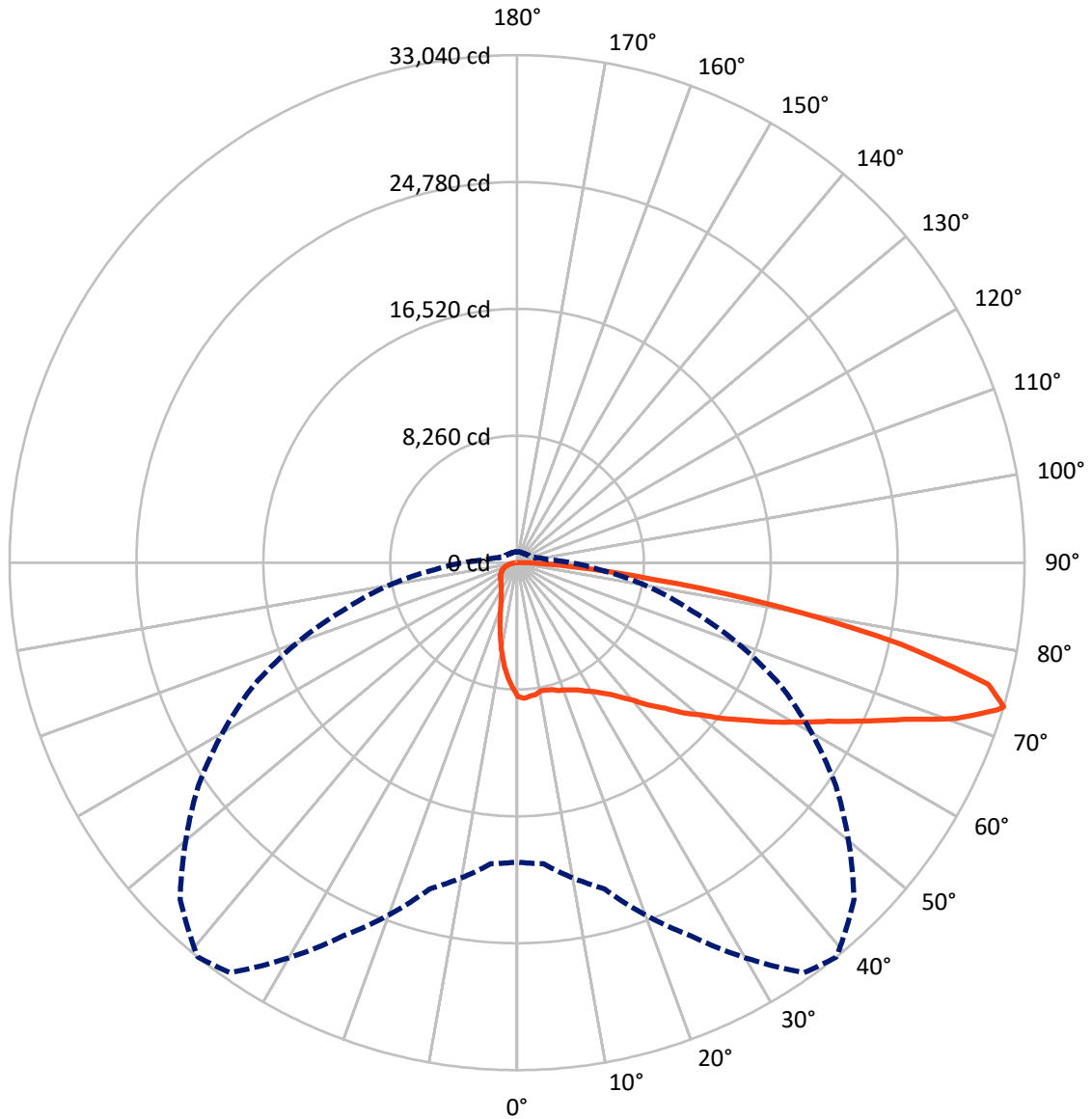
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	6888.9	0.0	6888.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	42117.3	0.0	42117.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	49006.2	0.0	49006.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.3	1.5
10°-20°	1925.1	3.9
20°-30°	2941.7	6.0
30°-40°	4289.1	8.8
40°-50°	6481.3	13.2
50°-60°	9385.3	19.2
60°-70°	11924.4	24.3
70°-80°	9666.6	19.7
80°-90°	1635.5	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°	49006.2	100.0
0°-180°	49006.2	100.0

Coefficient of Utilization



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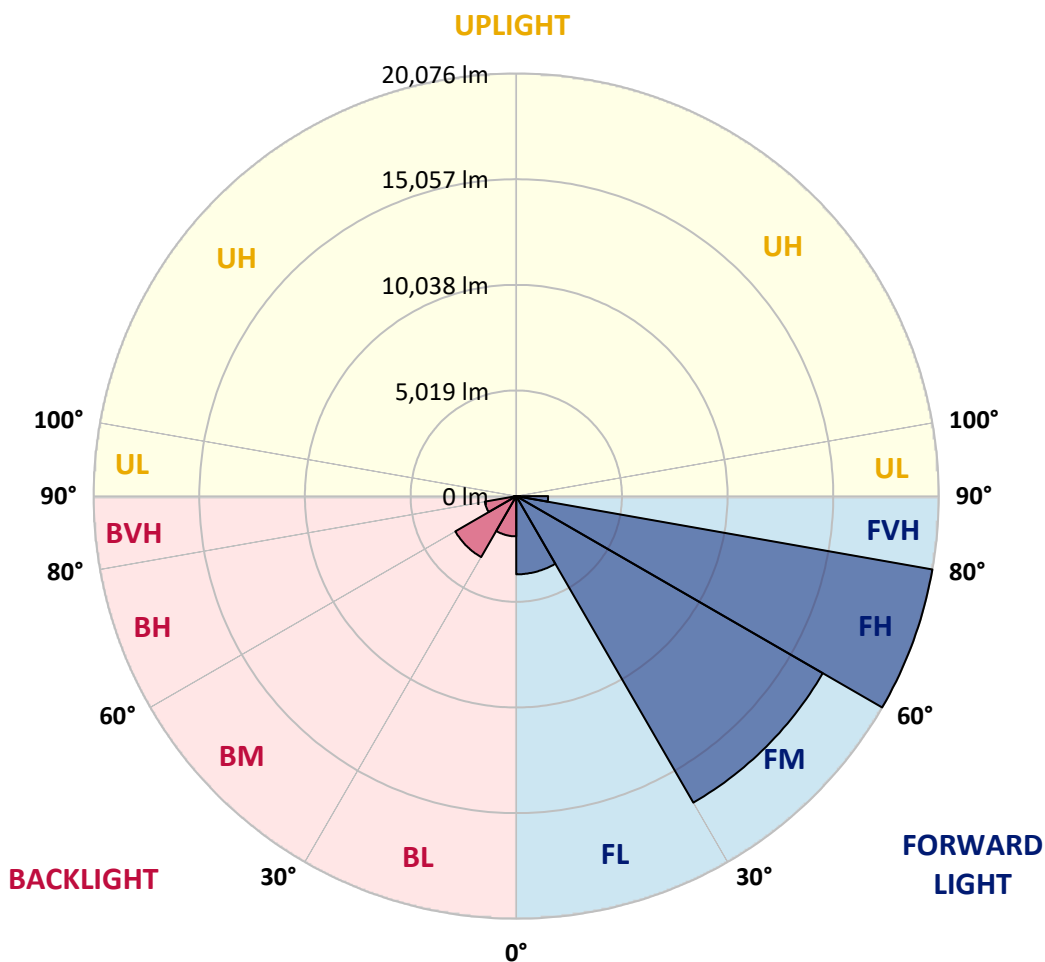
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3713.6	7.6			
FM (30°-60°)	16812.3	34.3			
FH (60°-80°)	20075.9	41.0			G5
FVH (80°-90°)	1515.5	3.1			G5
BL (0°-30°)	1910.4	3.9	B3/2500		
BM (30°-60°)	3343.4	6.8	B3/5000		
BH (60°-80°)	1515.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	120.0	0.2			G2/225
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°	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4
2.5°	8931.8	8838.6	8855.0	8822.1	8855.0	8844.0	8827.6	8745.3	8827.6	8745.3	8723.4
5°	8811.1	8811.1	8866.0	8783.7	8794.7	8739.9	8794.7	8734.4	8679.5	8542.5	8504.1
7.5°	8772.8	8767.3	8772.8	8657.6	8712.4	8679.5	8624.7	8558.9	8449.3	8361.5	8235.4
10°	8509.6	8564.4	8504.1	8537.0	8580.9	8482.2	8476.7	8460.2	8410.9	8295.7	8219.0
12.5°	8367.0	8460.2	8493.1	8465.7	8504.1	8515.1	8482.2	8460.2	8399.9	8323.2	8103.8
15°	8427.3	8317.7	8410.9	8591.8	8553.4	8580.9	8586.3	8564.4	8537.0	8394.4	8251.9
17.5°	8443.8	8378.0	8575.4	8613.8	8663.1	8761.8	8696.0	8690.5	8586.3	8487.6	8279.3
20°	8482.2	8454.7	8613.8	8816.6	8822.1	8838.6	8871.5	8789.2	8734.4	8564.4	8246.4
22.5°	8624.7	8717.9	8866.0	8953.7	9003.0	9014.0	9014.0	8849.5	8789.2	8652.1	8399.9
25°	9052.4	8953.7	9162.0	9266.2	9194.9	9178.5	9140.1	8992.1	8926.3	8805.7	8471.2
27.5°	9364.9	9359.4	9480.1	9622.6	9430.7	9469.1	9332.0	9288.2	9140.1	9074.3	8597.3
30°	9792.6	9913.2	9907.7	9951.6	9699.4	9743.2	9567.8	9485.5	9403.3	9441.7	8970.1
32.5°	10340.9	10297.0	10368.3	10335.4	10083.2	10121.6	9913.2	9787.1	9814.5	9929.7	9480.1
35°	10691.8	10647.9	10675.3	10675.3	10598.6	10554.7	10467.0	10302.5	10434.1	10647.9	10050.3
37.5°	11070.1	11125.0	11284.0	11251.1	11152.4	11152.4	11141.4	11026.3	11196.2	11722.6	10960.5
40°	11404.6	11552.6	11651.3	11717.1	11832.3	11832.3	11925.5	11859.7	12166.7	13011.1	12073.5
42.5°	11755.5	11761.0	12298.3	12347.7	12605.4	12715.0	12786.3	12841.1	13416.8	14359.9	13263.3
45°	12205.1	12232.5	12704.0	13082.4	13482.6	13521.0	13789.7	13970.6	14677.9	15834.8	14557.3
47.5°	12797.3	12764.4	13268.8	13871.9	14370.9	14634.1	14957.6	15154.9	16026.7	17435.9	15971.9
50°	13575.8	13477.1	13767.7	14716.3	15303.0	15593.6	16169.3	16498.3	17518.1	18965.6	16942.4
52.5°	14524.4	14359.9	14590.2	15626.5	16284.4	16871.1	17419.4	17786.8	18850.5	20149.9	17660.7
55°	15527.8	15187.8	15253.6	16591.5	17540.0	18093.8	18845.0	19228.8	20314.4	21213.6	18378.9
57.5°	16520.2	16306.4	16174.8	17518.1	19036.9	19568.7	20259.6	20758.5	21679.7	22156.7	18987.5
60°	17353.6	17298.8	17084.9	18954.6	20621.5	21076.5	21800.3	22107.3	22803.7	23028.5	18998.5
62.5°	18039.0	17852.6	18192.5	20111.5	22233.5	22748.9	23543.9	23571.3	24064.8	23571.3	18439.2
65°	18576.3	18587.3	19130.1	21509.7	24097.7	24859.8	25501.3	25430.0	25112.0	23247.8	17117.8
67.5°	19064.3	19272.7	20067.7	23044.9	26493.7	27212.0	27924.8	26981.7	25397.1	21734.5	14535.4
70°	19448.1	19656.5	21334.2	24914.6	29317.5	30370.2	30529.2	27595.8	24086.7	18411.8	10965.9
72.5°	19404.2	19782.6	22052.5	26406.0	31823.2	32733.3	31450.3	25868.7	20067.7	12835.6	6398.6
73°	19497.5	19683.9	21992.2	26822.7	32585.3	33040.4	31022.7	25325.9	18927.2	11514.2	5411.7
75°	17699.0	18329.6	20901.1	26142.8	31768.3	31686.1	28566.3	21104.0	13455.2	6047.7	2620.9
77.5°	13093.3	13493.6	16470.9	21498.7	26077.0	25550.7	21548.1	13488.1	6387.7	2242.5	1414.6
80°	6398.6	6711.2	8728.9	12413.5	17052.0	17095.9	13373.0	7018.2	2736.0	1266.6	965.0
82.5°	3196.6	3383.0	4194.5	5455.6	8388.9	8789.2	6782.4	3991.6	1694.2	718.3	548.3
85°	2089.0	2220.6	2582.5	2670.2	3558.4	3755.8	3158.2	3114.3	1102.1	389.3	444.1
87.5°	1387.2	1409.1	1584.6	1348.8	1425.6	1370.7	1524.3	1962.9	323.5	164.5	120.6
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°	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4	8723.4
2.5°	8696.0	8619.2	8537.0	8421.8	8339.6	8213.5	8098.4	8049.0	8038.0	8043.5	7988.7
5°	8471.2	8361.5	8197.0	7961.3	7824.2	7615.8	7440.4	7347.2	7248.5	7264.9	7221.1
7.5°	8158.7	8038.0	7785.8	7511.7	7171.7	6875.6	6711.2	6480.9	6349.3	6250.6	6305.4
10°	8060.0	7851.6	7473.3	7095.0	6568.6	6179.3	5801.0	5537.8	5356.9	5181.4	5258.2
12.5°	8010.6	7802.3	7275.9	6716.6	6036.8	5444.6	4912.7	4589.2	4331.5	4178.0	4238.3
15°	7966.8	7709.1	7089.5	6299.9	5537.8	4759.2	4161.6	3733.9	3487.2	3339.1	3355.6
17.5°	8027.1	7659.7	6815.3	5894.2	4989.5	4156.1	3492.7	3048.5	2796.3	2703.1	2681.2
20°	7966.8	7604.9	6546.7	5488.5	4441.2	3580.4	2944.4	2577.0	2401.5	2324.8	2308.3
22.5°	7988.7	7473.3	6267.0	5038.9	3931.3	3097.9	2577.0	2297.4	2160.3	2121.9	2132.9
25°	8092.9	7396.5	5987.4	4545.4	3426.9	2741.5	2341.2	2127.4	2028.7	1990.3	2001.3
27.5°	8169.6	7462.3	5735.2	4079.3	2999.2	2423.5	2143.8	2001.3	1935.5	1908.1	1902.6
30°	8361.5	7500.7	5488.5	3662.6	2648.3	2215.1	2006.8	1891.6	1847.8	1831.3	1825.8
32.5°	8646.6	7572.0	5203.3	3278.8	2390.6	2017.7	1897.1	1798.4	1787.4	1771.0	1776.5
35°	9112.7	7818.7	4885.3	2949.8	2143.8	1886.1	1782.0	1716.2	1716.2	1716.2	1732.6
37.5°	9781.6	8164.1	4600.2	2637.3	1984.8	1771.0	1683.3	1661.3	1650.4	1666.8	1677.8
40°	10642.5	8580.9	4369.9	2390.6	1847.8	1694.2	1617.5	1606.5	1601.0	1595.5	1606.5
42.5°	11585.5	9112.7	4172.5	2198.7	1749.1	1612.0	1557.2	1546.2	1524.3	1535.2	1551.7
45°	12523.1	9770.7	3997.1	2045.1	1683.3	1568.1	1491.4	1485.9	1474.9	1469.4	1496.9
47.5°	13564.9	10417.6	3942.3	1951.9	1633.9	1502.3	1447.5	1442.0	1409.1	1403.6	1425.6
50°	14376.4	10894.7	4002.6	1908.1	1562.6	1453.0	1414.6	1387.2	1359.8	1332.4	1332.4
52.5°	14935.6	11223.6	4046.4	1875.2	1524.3	1387.2	1337.8	1326.9	1299.5	1272.0	1261.1
55°	15440.1	11421.0	4057.4	1880.7	1485.9	1310.4	1277.5	1272.0	1255.6	1211.7	1200.8
57.5°	15610.0	11338.8	3838.1	1831.3	1464.0	1261.1	1217.2	1228.2	1206.3	1167.9	1162.4
60°	15593.6	10768.6	3339.1	1765.5	1414.6	1206.3	1151.4	1184.3	1184.3	1140.5	1135.0
62.5°	14645.0	9452.6	2730.5	1639.4	1359.8	1151.4	1091.1	1140.5	1156.9	1129.5	1124.0
65°	12676.6	7698.1	2280.9	1513.3	1277.5	1091.1	1030.8	1085.6	1113.0	1102.1	1096.6
67.5°	10488.9	5888.7	1897.1	1348.8	1173.4	1008.9	959.5	997.9	1014.4	1019.8	1025.3
70°	7413.0	3920.3	1584.6	1167.9	1030.8	921.1	866.3	871.8	866.3	882.8	882.8
72.5°	4030.0	2259.0	1288.5	992.4	888.2	800.5	762.1	734.7	734.7	729.2	729.2
73°	3448.8	2028.7	1228.2	965.0	849.9	778.6	734.7	712.8	712.8	707.3	701.8
75°	1935.5	1485.9	1052.7	827.9	734.7	679.9	647.0	614.1	608.6	608.6	608.6
77.5°	1272.0	1156.9	838.9	663.4	592.2	542.8	531.8	499.0	499.0	499.0	493.5
80°	954.0	910.2	647.0	504.4	455.1	416.7	405.7	383.8	378.3	356.4	361.9
82.5°	636.0	718.3	471.5	356.4	307.0	285.1	285.1	279.6	263.2	235.8	235.8
85°	504.4	586.7	339.9	219.3	180.9	153.5	159.0	153.5	148.0	120.6	115.1
87.5°	93.2	235.8	98.7	60.3	43.9	27.4	27.4	16.4	11.0	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)