

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: P480910

Luminaire Tested: **IFLD-M-SA4E-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480910
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

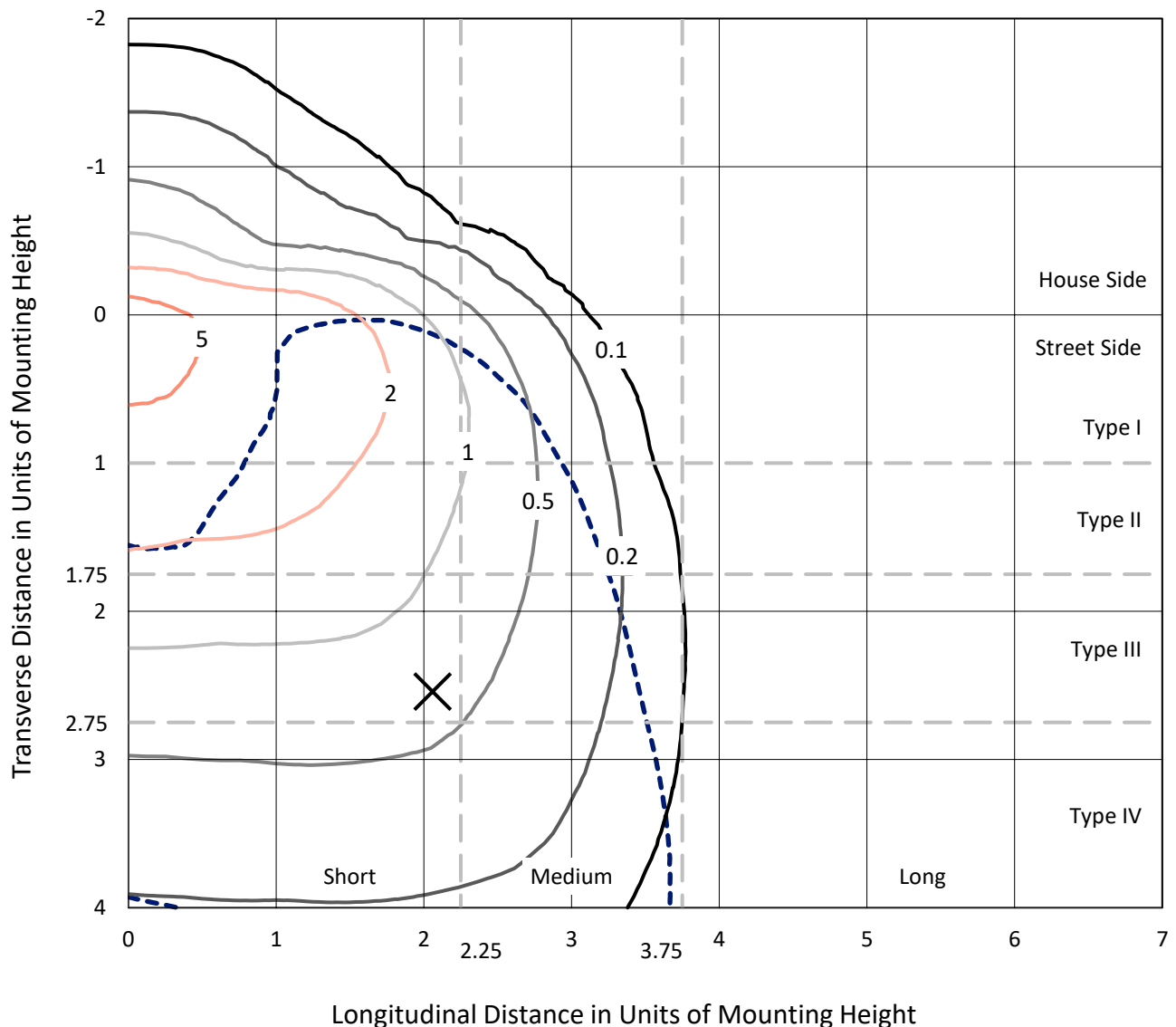
Lumens per Lamp: N/A
Luminaire Lumens: 35020 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P480910
 CATALOG NUMBER: IFLD-M-SA4E-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

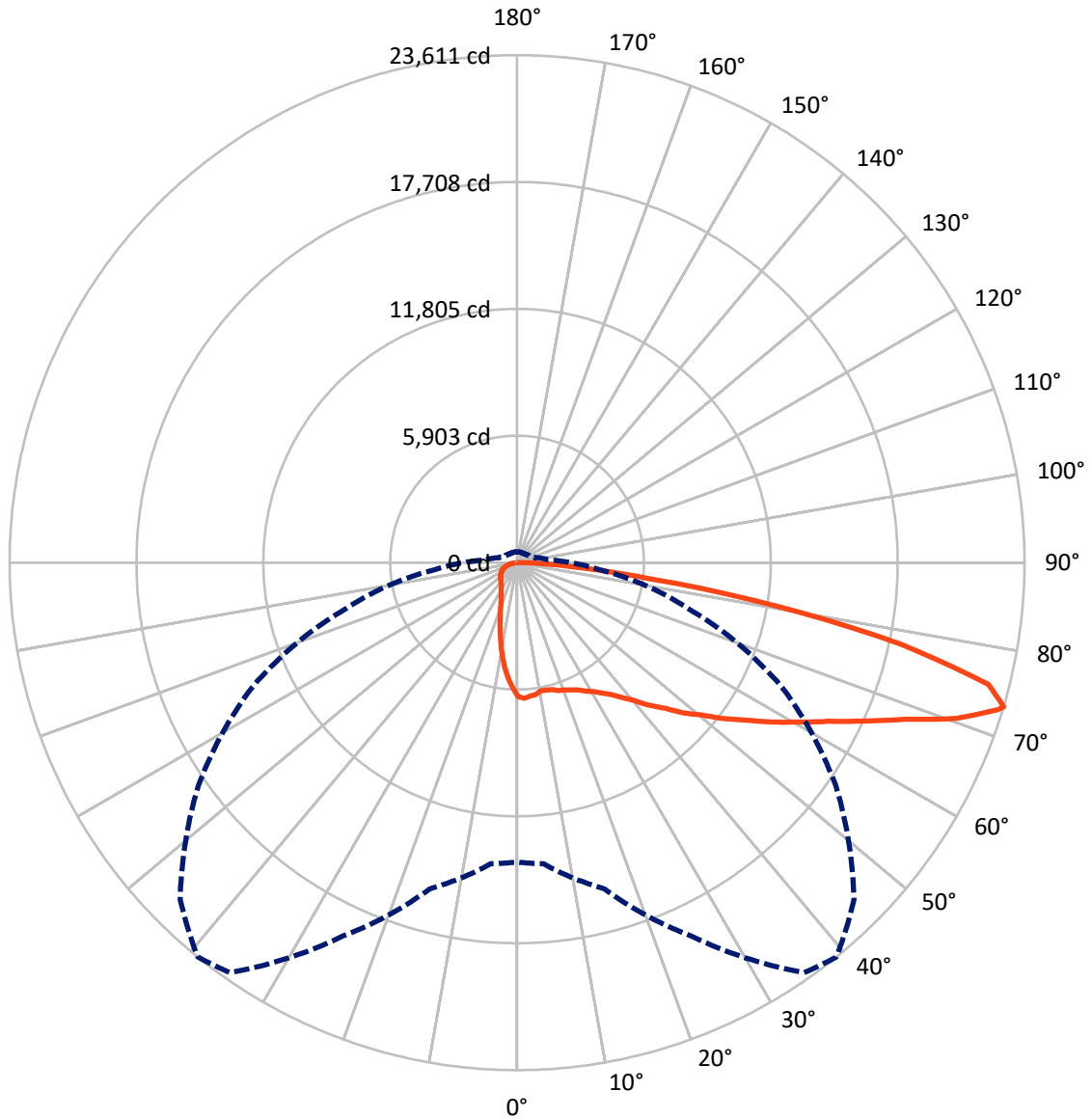
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P480910
CATALOG NUMBER: IFLD-M-SA4E-740-U-SL4

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	4922.8	0.0	4922.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	30097.1	0.0	30097.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	35020.0	0.0	35020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.1	1.5
10°-20°	1375.7	3.9
20°-30°	2102.2	6.0
30°-40°	3065.0	8.8
40°-50°	4631.5	13.2
50°-60°	6706.7	19.2
60°-70°	8521.2	24.3
70°-80°	6907.8	19.7
80°-90°	1168.8	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°	35020.0	100.0
0°-180°	35020.0	100.0

Coefficient of Utilization



REPORT NUMBER: P480910

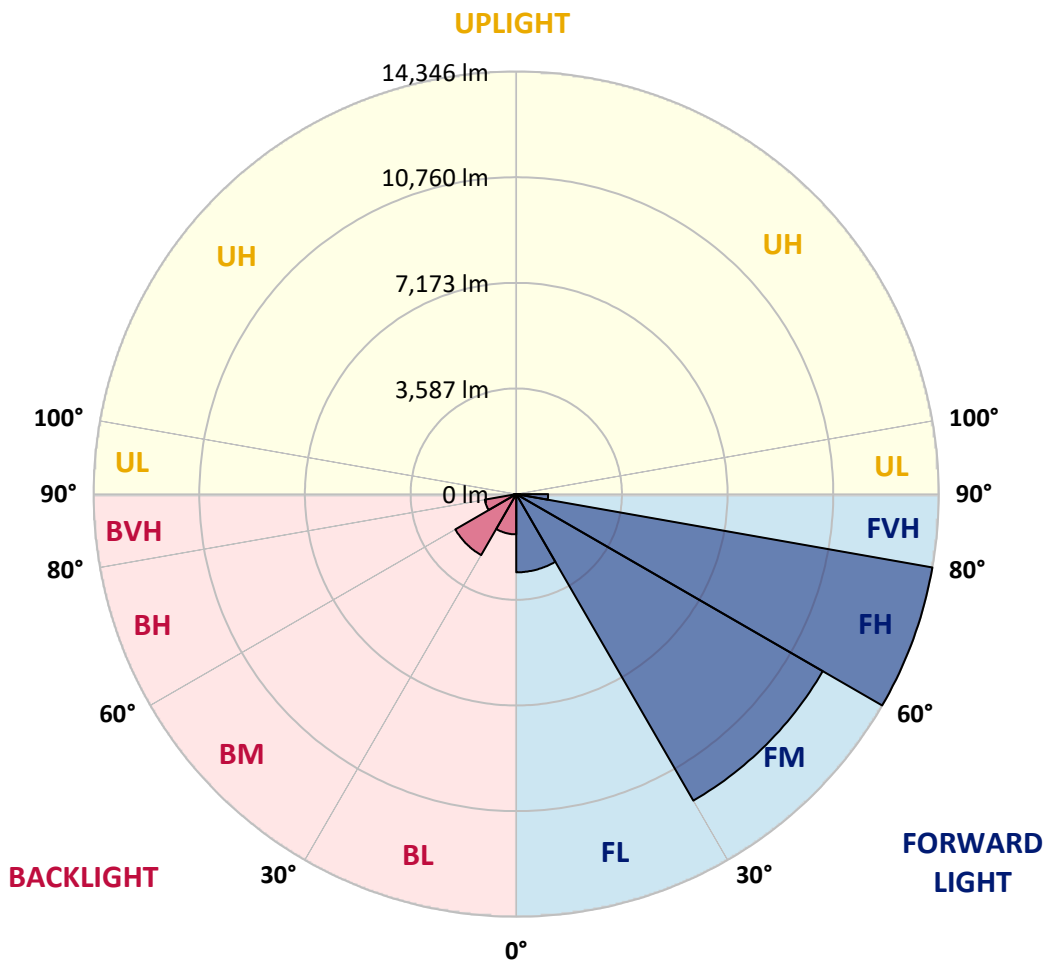
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.7	7.6			
FM (30°-60°)	12014.1	34.3			
FH (60°-80°)	14346.3	41.0			G5
FVH (80°-90°)	1083.0	3.1			G5
BL (0°-30°)	1365.2	3.9	B3/2500		
BM (30°-60°)	2389.2	6.8	B2/2500		
BH (60°-80°)	1082.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	85.7	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





REPORT NUMBER: P480910
 CATALOG NUMBER: IFLD-M-SA4E-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8
2.5°	6382.7	6316.0	6327.8	6304.3	6327.8	6320.0	6308.2	6249.4	6308.2	6249.4	6233.8
5°	6296.5	6296.5	6335.6	6276.9	6284.7	6245.5	6284.7	6241.6	6202.4	6104.5	6077.0
7.5°	6269.0	6265.1	6269.0	6186.8	6225.9	6202.4	6163.2	6116.2	6037.9	5975.2	5885.1
10°	6081.0	6120.1	6077.0	6100.6	6131.9	6061.4	6057.5	6045.7	6010.4	5928.2	5873.3
12.5°	5979.1	6045.7	6069.2	6049.6	6077.0	6084.9	6061.4	6045.7	6002.6	5947.7	5791.0
15°	6022.2	5943.8	6010.4	6139.7	6112.3	6131.9	6135.8	6120.1	6100.6	5998.7	5896.8
17.5°	6033.9	5986.9	6128.0	6155.4	6190.7	6261.2	6214.2	6210.3	6135.8	6065.3	5916.4
20°	6061.4	6041.8	6155.4	6300.4	6304.3	6316.0	6339.6	6280.8	6241.6	6120.1	5892.9
22.5°	6163.2	6229.9	6335.6	6398.3	6433.6	6441.4	6441.4	6323.9	6280.8	6182.8	6002.6
25°	6468.9	6398.3	6547.2	6621.7	6570.7	6559.0	6531.5	6425.8	6378.7	6292.5	6053.5
27.5°	6692.2	6688.3	6774.5	6876.3	6739.2	6766.6	6668.7	6637.3	6531.5	6484.5	6143.7
30°	6997.8	7084.0	7080.1	7111.4	6931.2	6962.5	6837.2	6778.4	6719.6	6747.0	6410.1
32.5°	7389.6	7358.3	7409.2	7385.7	7205.5	7232.9	7084.0	6993.9	7013.5	7095.8	6774.5
35°	7640.4	7609.0	7628.6	7628.6	7573.8	7542.4	7479.7	7362.2	7456.2	7609.0	7182.0
37.5°	7910.7	7949.9	8063.5	8040.0	7969.5	7969.5	7961.7	7879.4	8000.9	8377.0	7832.4
40°	8149.7	8255.5	8326.1	8373.1	8455.4	8455.4	8522.0	8474.9	8694.4	9297.8	8627.8
42.5°	8400.5	8404.4	8788.4	8823.7	9007.8	9086.2	9137.1	9176.3	9587.7	10261.6	9478.0
45°	8721.8	8741.4	9078.3	9348.7	9634.7	9662.1	9854.1	9983.4	10488.9	11315.6	10402.7
47.5°	9144.9	9121.4	9481.9	9912.9	10269.5	10457.5	10688.7	10829.8	11452.7	12459.7	11413.6
50°	9701.3	9630.8	9838.5	10516.3	10935.5	11143.2	11554.6	11789.7	12518.5	13552.9	12107.1
52.5°	10379.2	10261.6	10426.2	11166.7	11636.9	12056.1	12447.9	12710.5	13470.6	14399.2	12620.3
55°	11096.2	10853.3	10900.3	11856.3	12534.1	12929.9	13466.7	13740.9	14516.7	15159.3	13133.6
57.5°	11805.4	11652.6	11558.5	12518.5	13603.8	13983.9	14477.5	14834.1	15492.3	15833.2	13568.5
60°	12400.9	12361.7	12208.9	13545.0	14736.1	15061.3	15578.5	15798.0	16295.6	16456.2	13576.4
62.5°	12890.7	12757.5	13000.4	14371.8	15888.1	16256.4	16824.5	16844.1	17196.7	16844.1	13176.7
65°	13274.7	13282.5	13670.4	15370.9	17220.2	17764.9	18223.3	18172.4	17945.1	16612.9	12232.4
67.5°	13623.4	13772.3	14340.4	16468.0	18932.5	19445.8	19955.1	19281.2	18148.8	15531.5	10387.0
70°	13897.7	14046.5	15245.5	17804.0	20950.3	21702.6	21816.2	19720.0	17212.4	13157.1	7836.3
72.5°	13866.3	14136.7	15758.8	18869.8	22740.9	23391.3	22474.5	18485.8	14340.4	9172.4	4572.5
73°	13932.9	14066.1	15715.7	19167.6	23285.5	23610.7	22168.9	18097.9	13525.4	8228.1	3867.2
75°	12647.8	13098.4	14936.0	18681.7	22701.7	22643.0	20413.5	15080.9	9615.1	4321.7	1872.9
77.5°	9356.5	9642.6	11770.1	15363.0	18634.7	18258.6	15398.3	9638.6	4564.6	1602.5	1010.9
80°	4572.5	4795.8	6237.7	8870.7	12185.4	12216.8	9556.4	5015.2	1955.2	905.1	689.6
82.5°	2284.3	2417.5	2997.4	3898.6	5994.8	6280.8	4846.7	2852.4	1210.7	513.3	391.8
85°	1492.8	1586.8	1845.4	1908.1	2542.9	2683.9	2256.9	2225.5	787.5	278.2	317.4
87.5°	991.3	1007.0	1132.3	963.9	1018.7	979.5	1089.2	1402.7	231.2	117.5	86.2
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°	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8	6233.8
2.5°	6214.2	6159.3	6100.6	6018.3	5959.5	5869.4	5787.1	5751.8	5744.0	5747.9	5708.7
5°	6053.5	5975.2	5857.6	5689.1	5591.2	5442.3	5316.9	5250.3	5179.8	5191.5	5160.2
7.5°	5830.2	5744.0	5563.8	5367.9	5124.9	4913.4	4795.8	4631.2	4537.2	4466.7	4505.9
10°	5759.7	5610.8	5340.4	5070.1	4693.9	4415.7	4145.4	3957.3	3828.0	3702.6	3757.5
12.5°	5724.4	5575.5	5199.4	4799.7	4313.9	3890.7	3510.7	3279.5	3095.3	2985.6	3028.7
15°	5693.1	5508.9	5066.2	4501.9	3957.3	3400.9	2973.9	2668.3	2491.9	2386.2	2397.9
17.5°	5736.2	5473.6	4870.3	4212.0	3565.5	2970.0	2495.9	2178.5	1998.3	1931.6	1916.0
20°	5693.1	5434.5	4678.3	3922.1	3173.7	2558.5	2104.0	1841.5	1716.1	1661.3	1649.5
22.5°	5708.7	5340.4	4478.4	3600.8	2809.3	2213.8	1841.5	1641.7	1543.7	1516.3	1524.2
25°	5783.2	5285.6	4278.6	3248.1	2448.8	1959.1	1673.0	1520.2	1449.7	1422.3	1430.1
27.5°	5838.0	5332.6	4098.4	2915.1	2143.2	1731.8	1532.0	1430.1	1383.1	1363.5	1359.6
30°	5975.2	5360.0	3922.1	2617.3	1892.5	1582.9	1434.0	1351.8	1320.4	1308.7	1304.7
32.5°	6178.9	5411.0	3718.3	2343.1	1708.3	1441.9	1355.7	1285.2	1277.3	1265.6	1269.5
35°	6512.0	5587.3	3491.1	2108.0	1532.0	1347.8	1273.4	1226.4	1226.4	1226.4	1238.1
37.5°	6990.0	5834.1	3287.3	1884.6	1418.4	1265.6	1202.9	1187.2	1179.4	1191.1	1199.0
40°	7605.1	6131.9	3122.8	1708.3	1320.4	1210.7	1155.9	1148.0	1144.1	1140.2	1148.0
42.5°	8279.0	6512.0	2981.7	1571.2	1249.9	1151.9	1112.8	1104.9	1089.2	1097.1	1108.8
45°	8949.0	6982.1	2856.3	1461.5	1202.9	1120.6	1065.7	1061.8	1054.0	1050.1	1069.7
47.5°	9693.5	7444.5	2817.1	1394.9	1167.6	1073.6	1034.4	1030.5	1007.0	1003.0	1018.7
50°	10273.4	7785.4	2860.2	1363.5	1116.7	1038.3	1010.9	991.3	971.7	952.1	952.1
52.5°	10673.0	8020.4	2891.6	1340.0	1089.2	991.3	956.0	948.2	928.6	909.0	901.2
55°	11033.5	8161.5	2899.4	1343.9	1061.8	936.4	912.9	909.0	897.3	865.9	858.1
57.5°	11155.0	8102.7	2742.7	1308.7	1046.1	901.2	869.8	877.7	862.0	834.6	830.6
60°	11143.2	7695.2	2386.2	1261.6	1010.9	862.0	822.8	846.3	846.3	815.0	811.1
62.5°	10465.4	6754.9	1951.2	1171.5	971.7	822.8	779.7	815.0	826.7	807.1	803.2
65°	9058.8	5501.1	1629.9	1081.4	912.9	779.7	736.6	775.8	795.4	787.5	783.6
67.5°	7495.4	4208.1	1355.7	963.9	838.5	720.9	685.7	713.1	724.9	728.8	732.7
70°	5297.3	2801.5	1132.3	834.6	736.6	658.2	619.1	623.0	619.1	630.8	630.8
72.5°	2879.8	1614.3	920.8	709.2	634.7	572.0	544.6	525.0	525.0	521.1	521.1
73°	2464.5	1449.7	877.7	689.6	607.3	556.4	525.0	509.4	509.4	505.4	501.5
75°	1383.1	1061.8	752.3	591.6	525.0	485.8	462.3	438.8	434.9	434.9	434.9
77.5°	909.0	826.7	599.5	474.1	423.2	387.9	380.1	356.6	356.6	356.6	352.6
80°	681.8	650.4	462.3	360.5	325.2	297.8	289.9	274.3	270.4	254.7	258.6
82.5°	454.5	513.3	337.0	254.7	219.4	203.7	203.7	199.8	188.1	168.5	168.5
85°	360.5	419.2	242.9	156.7	129.3	109.7	113.6	109.7	105.8	86.2	82.3
87.5°	66.6	168.5	70.5	43.1	31.3	19.6	19.6	11.8	7.8	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)