

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: P480479

Luminaire Tested: **IFLD-M-SA4C-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480479
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

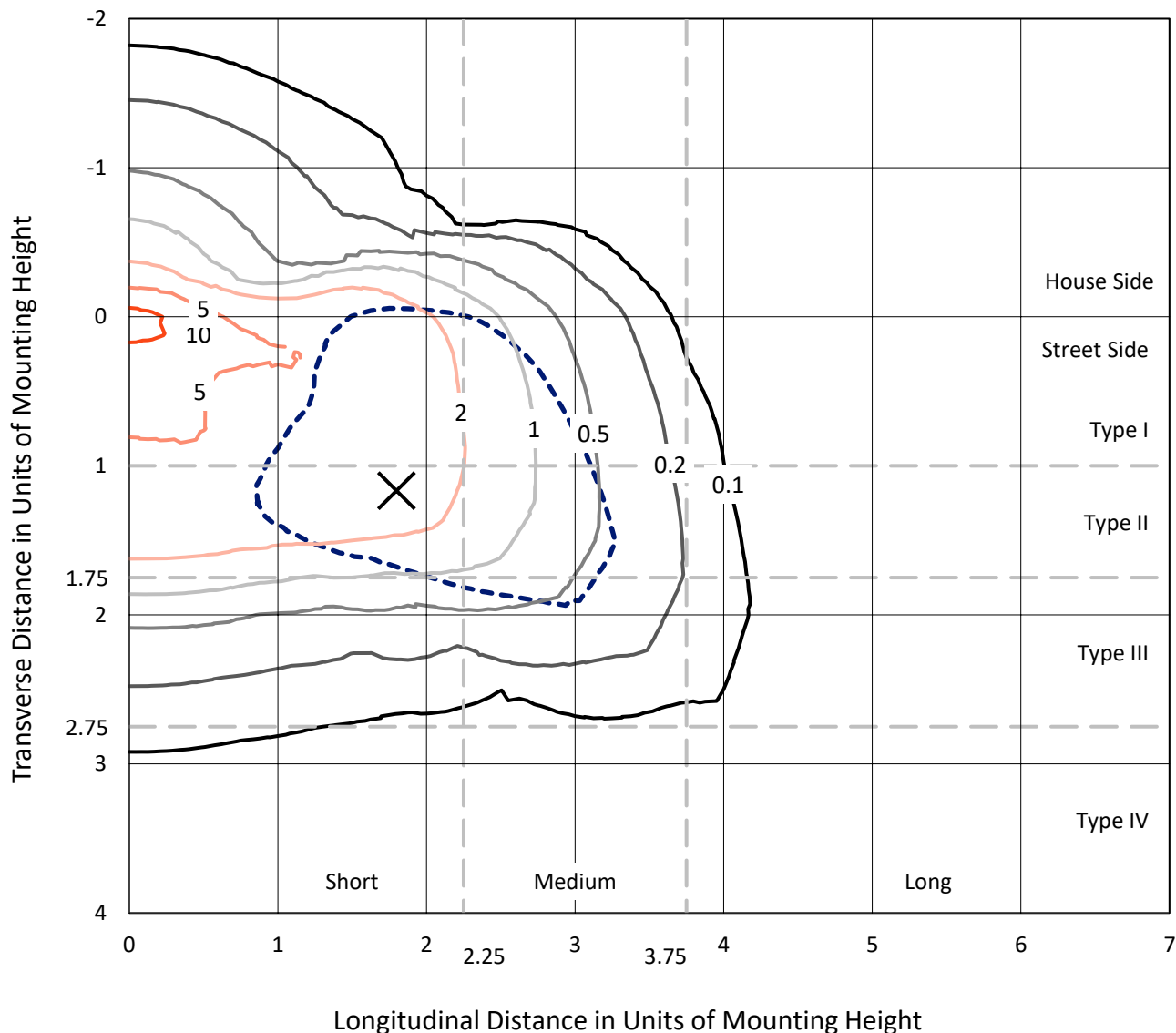
Lumens per Lamp: N/A
Luminaire Lumens: 27669.9 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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: P480479
 CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

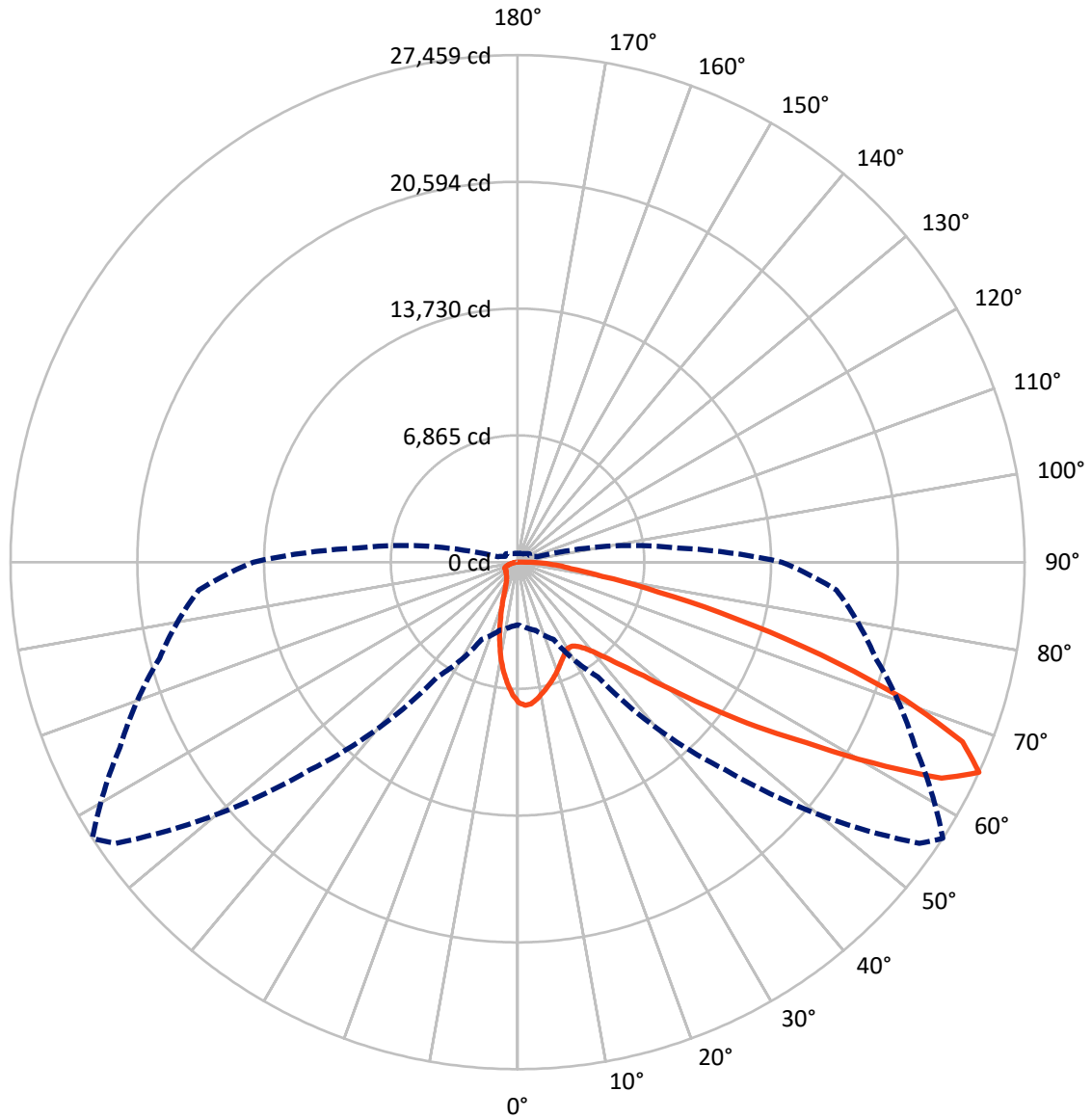
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

REPORT NUMBER: P480479
CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480479

CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4243.4	0.0	4243.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23426.5	0.0	23426.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	27669.9	0.0	27669.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.2	2.3
10°-20°	1371.3	5.0
20°-30°	1773.0	6.4
30°-40°	2385.9	8.6
40°-50°	3804.4	13.7
50°-60°	6719.4	24.3
60°-70°	7392.3	26.7
70°-80°	3092.3	11.2
80°-90°	494.2	1.8
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°	27669.9	100.0
0°-180°	27669.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480479

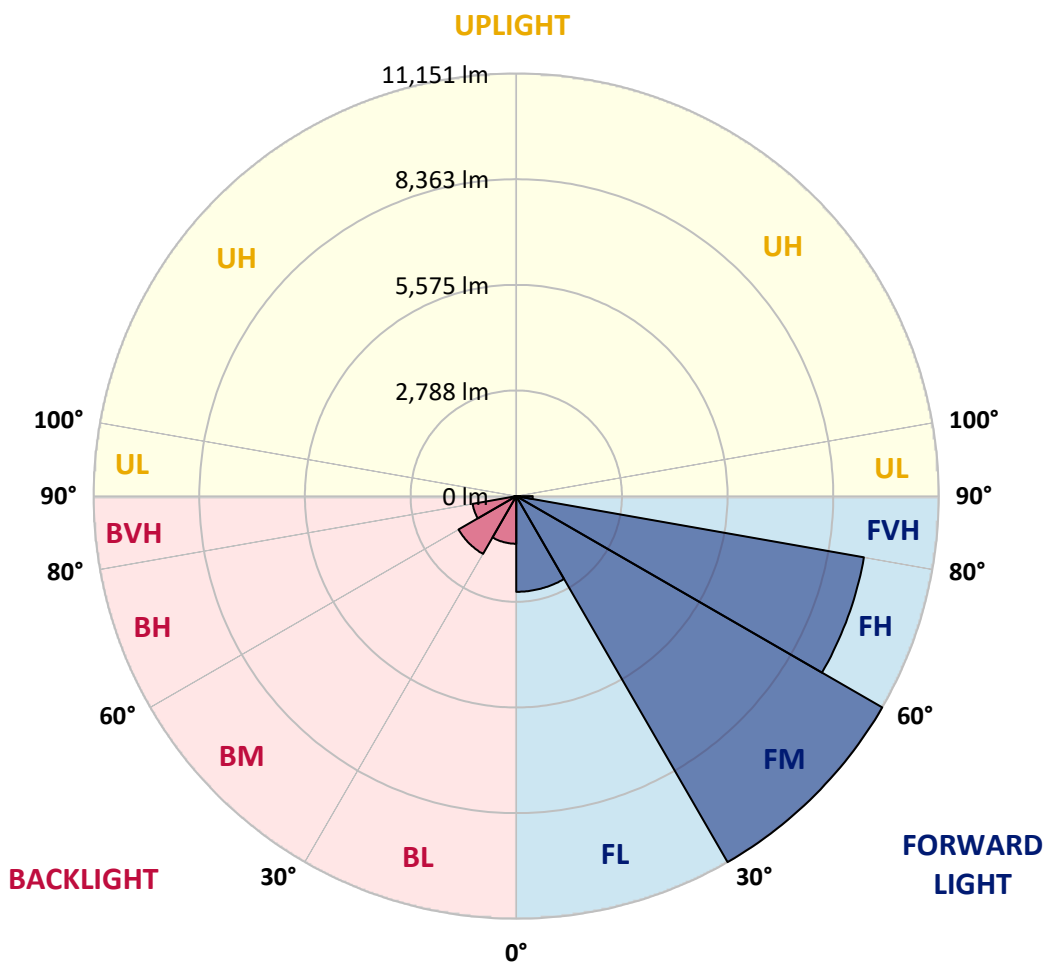
CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.8	9.1			
FM (30°-60°)	11150.9	40.3			
FH (60°-80°)	9314.5	33.7			G4/12000
FVH (80°-90°)	436.2	1.6			G3/500
BL (0°-30°)	1256.7	4.5	B3/2500		
BM (30°-60°)	1758.7	6.4	B2/2500		
BH (60°-80°)	1170.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	58.0	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-G4

Type III Short





REPORT NUMBER: P480479

CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8
2.5°	7814.3	7826.8	7826.8	7851.7	7767.6	7808.1	7801.9	7764.5	7777.0	7711.6	7646.2
5°	7593.3	7583.9	7633.7	7640.0	7705.4	7724.0	7739.6	7714.7	7720.9	7577.7	7515.4
7.5°	7026.7	7023.5	7107.6	7179.2	7316.2	7443.8	7527.9	7503.0	7537.2	7446.9	7300.6
10°	6354.2	6425.8	6513.0	6584.6	6836.7	6998.6	7216.6	7238.4	7369.1	7347.3	7082.7
12.5°	5849.8	5881.0	5946.4	6151.8	6382.2	6650.0	6961.3	6989.3	7116.9	7179.2	6948.8
15°	5435.8	5463.8	5547.9	5700.4	5958.8	6276.4	6671.7	6743.3	6998.6	7020.4	6774.5
17.5°	5133.8	5155.6	5211.6	5364.2	5575.9	5983.7	6357.3	6484.9	6821.2	6927.0	6593.9
20°	5015.5	4968.8	4999.9	5096.4	5308.1	5622.6	6105.1	6217.2	6646.8	6855.4	6422.7
22.5°	4962.6	4922.1	4940.8	4934.5	5102.7	5326.8	5834.3	5952.6	6481.8	6771.4	6270.1
25°	5003.0	5003.0	4984.4	4968.8	4987.5	5133.8	5541.6	5725.3	6260.8	6699.8	6114.5
27.5°	5221.0	5136.9	5146.2	5080.9	5062.2	5062.2	5410.9	5519.8	6189.2	6659.3	5986.8
30°	5361.1	5401.5	5404.6	5308.1	5211.6	5037.3	5289.5	5395.3	6130.0	6709.1	5912.1
32.5°	5719.1	5700.4	5647.5	5628.8	5485.6	5289.5	5348.6	5420.2	6095.8	6821.2	5933.9
35°	6077.1	6067.8	6070.9	6061.5	5912.1	5622.6	5507.4	5603.9	6158.1	7017.3	6008.6
37.5°	6447.6	6472.5	6578.3	6578.3	6419.6	6105.1	5952.6	5924.6	6385.3	7338.0	6186.1
40°	6818.1	6880.3	7014.2	7225.9	7001.8	6709.1	6463.2	6419.6	6659.3	7767.6	6612.6
42.5°	7173.0	7275.7	7540.3	7854.8	7780.1	7487.4	7160.5	7110.7	7222.8	8405.8	7207.2
45°	7627.5	7714.7	8131.9	8614.4	8717.2	8458.8	8075.8	8035.4	8029.1	9339.8	8026.0
47.5°	8318.7	8412.1	8829.2	9314.9	9632.5	9672.9	9243.3	9199.7	9050.3	10600.7	9224.6
50°	9184.2	9336.7	9688.5	10255.1	10715.9	11148.6	11027.2	10899.6	10606.9	12067.0	10743.9
52.5°	9816.2	10002.9	10479.3	11204.7	12017.2	12705.3	13141.1	13141.1	12468.7	13676.6	12571.4
55°	9984.3	10096.3	10697.2	11746.4	13138.0	14878.3	15790.5	15722.0	14685.3	15370.2	14697.8
57.5°	9314.9	9461.2	10189.7	11288.7	13726.4	16911.3	18421.2	18436.8	17107.4	17337.8	16796.1
60°	7471.9	7518.6	8377.8	9847.3	13159.8	18548.9	22014.0	22073.1	19862.7	19090.6	17864.0
62.5°	5164.9	5314.4	5961.9	7250.8	10902.7	18365.2	25479.0	25771.7	22070.0	20015.2	18032.1
65°	3399.7	3490.0	3835.6	4620.1	7590.2	15918.2	26556.2	27459.1	23757.4	20068.2	17328.5
67.5°	2465.7	2481.3	2584.0	2988.7	4560.9	11447.5	24716.3	25989.6	24389.4	19626.1	15678.4
70°	1992.5	2004.9	2042.3	2300.7	2945.2	7163.6	20158.4	22154.1	22493.4	17530.8	12627.4
72.5°	1618.9	1634.5	1681.2	1924.0	2428.4	3985.0	14741.3	17172.8	18296.7	12969.9	8393.4
75°	1273.3	1285.8	1397.9	1637.6	2282.0	2736.6	9778.8	12160.4	12313.0	7580.8	3929.0
77.5°	871.7	893.5	1030.5	1388.5	2148.2	2394.1	6095.8	7789.4	6989.3	2966.9	1351.2
80°	554.2	585.3	666.2	1052.3	1899.1	2285.1	3792.0	4651.2	3060.3	1014.9	650.7
82.5°	326.9	358.0	439.0	681.8	1491.3	2120.1	2671.2	2910.9	1435.2	519.9	392.3
85°	180.6	202.4	264.6	411.0	874.8	1883.5	2138.8	2089.0	821.9	277.1	245.9
87.5°	59.2	68.5	96.5	165.0	361.1	887.3	1282.7	1204.8	426.5	127.6	96.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480479
 CATALOG NUMBER: IFLD-M-SA4C-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8	7608.8
2.5°	7602.6	7593.3	7453.2	7347.3	7166.8	7017.3	6958.2	6877.2	6874.1	6815.0	6799.4
5°	7418.9	7322.4	7107.6	6902.1	6581.5	6366.6	6170.5	6033.5	5977.5	5856.1	5828.0
7.5°	7182.3	7054.7	6724.7	6338.6	5961.9	5625.7	5320.6	5015.5	4844.3	4785.1	4719.7
10°	6936.4	6712.2	6223.4	5790.7	5264.5	4747.7	4268.3	3838.7	3605.2	3440.2	3368.6
12.5°	6740.2	6441.4	5818.7	5171.1	4476.9	3785.7	3228.5	2777.0	2512.4	2387.9	2331.8
15°	6519.2	6123.8	5376.6	4557.8	3692.3	2907.8	2363.0	2008.1	1902.2	1843.1	1833.7
17.5°	6285.7	5828.0	4897.2	3953.9	2926.5	2188.6	1836.8	1693.6	1646.9	1622.0	1609.6
20°	6067.8	5563.4	4405.3	3281.4	2291.4	1755.9	1590.9	1516.2	1513.1	1525.5	1522.4
22.5°	5759.6	5217.8	3919.6	2658.7	1830.6	1528.6	1422.8	1404.1	1422.8	1438.3	1444.6
25°	5585.2	4934.5	3377.9	2110.8	1513.1	1357.4	1323.1	1316.9	1344.9	1363.6	1360.5
27.5°	5404.6	4641.9	2873.6	1690.5	1326.3	1236.0	1229.7	1236.0	1264.0	1292.0	1288.9
30°	5264.5	4408.4	2400.3	1413.4	1183.0	1148.8	1142.6	1148.8	1164.4	1167.5	1167.5
32.5°	5149.4	4131.3	1998.7	1226.6	1095.9	1067.9	1074.1	1071.0	1074.1	1077.2	1080.3
35°	5080.9	3966.3	1668.7	1111.4	1024.3	1002.5	999.4	990.0	993.1	996.2	993.1
37.5°	5227.2	3885.4	1407.2	1030.5	974.5	955.8	949.5	943.3	934.0	934.0	934.0
40°	5448.2	3841.8	1248.4	977.6	937.1	915.3	896.6	890.4	890.4	893.5	896.6
42.5°	5887.2	3913.4	1139.5	937.1	890.4	865.5	846.8	849.9	859.3	868.6	862.4
45°	6522.3	4131.3	1089.6	906.0	862.4	828.1	815.7	812.6	821.9	837.5	849.9
47.5°	7353.6	4470.7	1071.0	877.9	843.7	797.0	781.4	790.8	803.2	825.0	815.7
50°	8714.1	5233.4	1086.5	853.0	815.7	781.4	762.8	753.4	762.8	778.3	784.5
52.5°	10491.7	6618.8	1145.7	840.6	797.0	769.0	737.8	722.3	731.6	744.1	744.1
55°	12618.1	8511.7	1310.7	825.0	765.9	750.3	716.1	684.9	691.1	691.1	688.0
57.5°	14492.3	9940.7	1506.8	803.2	747.2	725.4	681.8	644.4	638.2	641.3	644.4
60°	15332.9	10320.5	1600.2	797.0	747.2	694.3	635.1	597.7	588.4	582.2	582.2
62.5°	15186.5	9663.6	1410.3	769.0	765.9	669.4	591.5	551.0	538.6	526.1	529.3
65°	14302.4	8726.5	1111.4	731.6	769.0	653.8	547.9	507.5	485.7	470.1	467.0
67.5°	12686.6	7450.1	881.1	703.6	737.8	625.8	510.6	463.9	445.2	429.6	423.4
70°	9925.1	5840.5	765.9	666.2	663.1	557.3	467.0	426.5	398.5	379.8	379.8
72.5°	6435.1	3692.3	656.9	591.5	572.8	467.0	404.7	379.8	358.0	342.5	342.5
75°	2914.0	1715.4	529.3	495.0	467.0	373.6	342.5	330.0	311.3	295.8	295.8
77.5°	1046.1	731.6	395.4	389.2	348.7	289.5	277.1	267.7	255.3	239.7	239.7
80°	585.3	463.9	295.8	283.3	242.8	214.8	199.2	199.2	193.0	183.7	180.6
82.5°	370.5	302.0	217.9	189.9	158.8	143.2	137.0	133.9	130.8	118.3	115.2
85°	233.5	205.5	143.2	112.1	93.4	71.6	68.5	65.4	59.2	52.9	52.9
87.5°	105.9	118.3	56.0	34.2	24.9	15.6	9.3	3.1	0.0	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)