

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: P480675

Luminaire Tested: **IFLD-M-SA4D-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480675  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

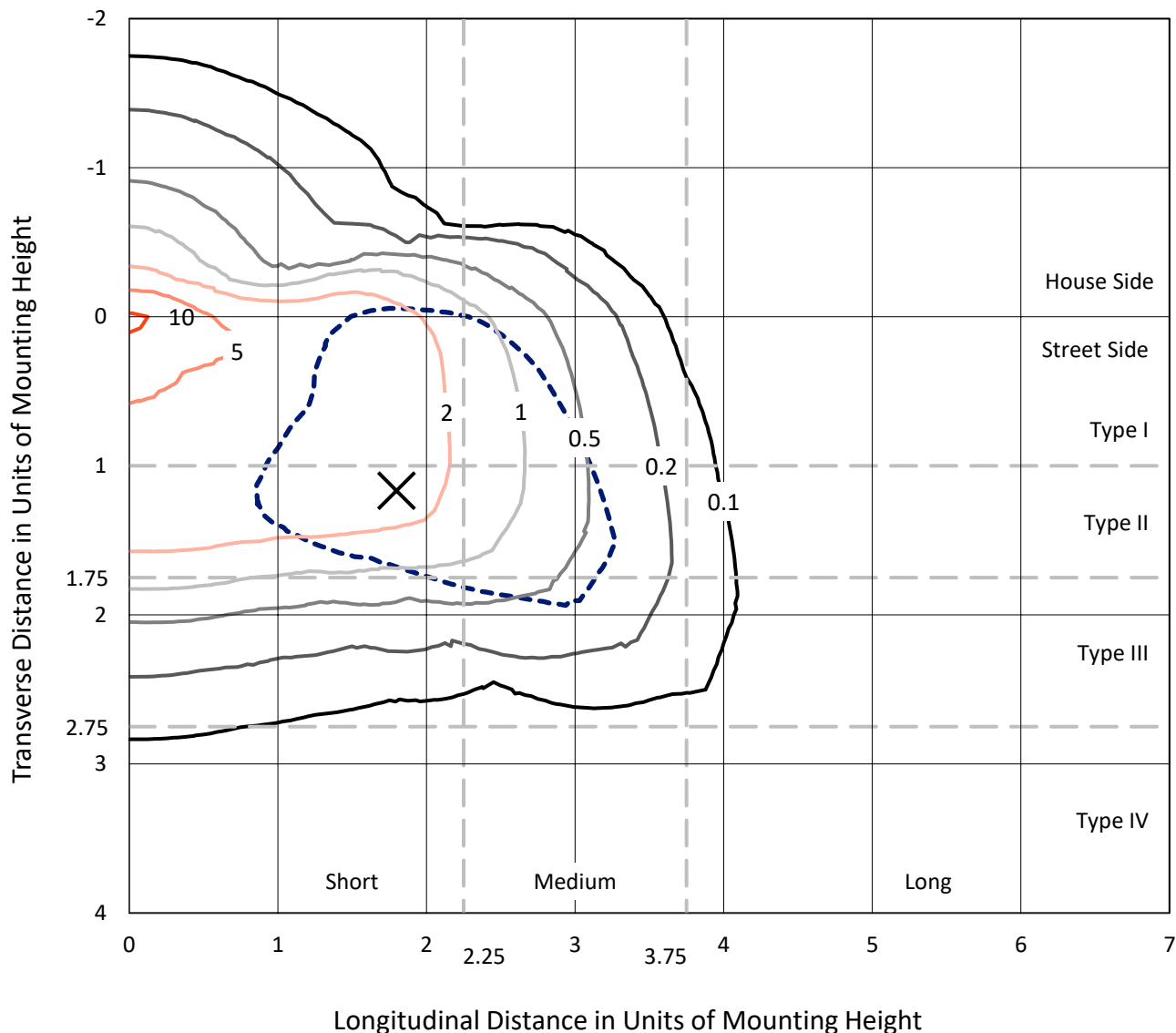
Lumens per Lamp: N/A  
Luminaire Lumens: 24528.3 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
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: P480675  
 CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

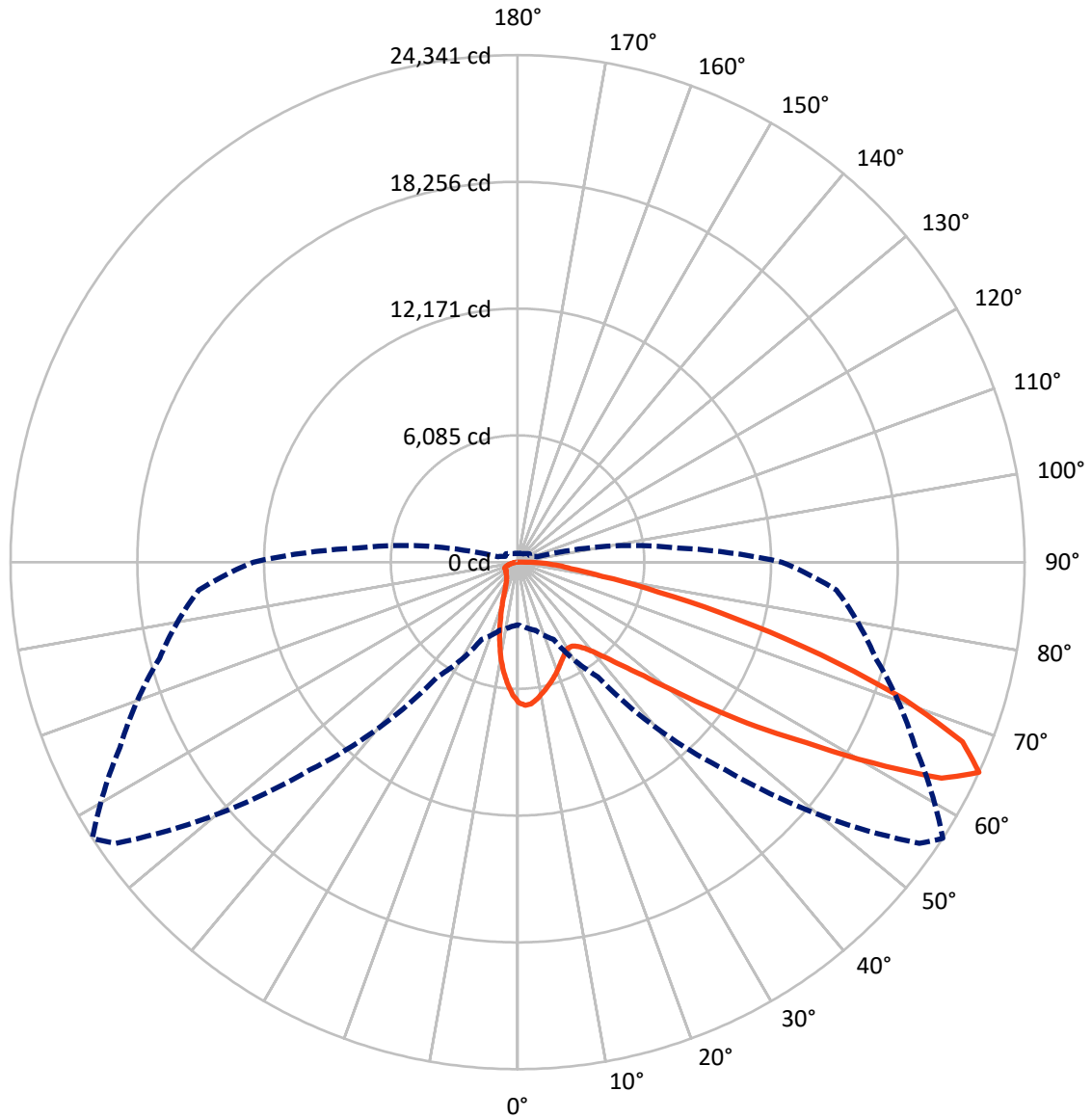
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P480675  
CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480675  
 CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3761.6	0.0	3761.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	20766.6	0.0	20766.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	24528.3	0.0	24528.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.8	2.3
10°-20°	1215.6	5.0
20°-30°	1571.7	6.4
30°-40°	2115.0	8.6
40°-50°	3372.4	13.7
50°-60°	5956.5	24.3
60°-70°	6552.9	26.7
70°-80°	2741.2	11.2
80°-90°	438.1	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°	24528.3	100.0
0°-180°	24528.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480675

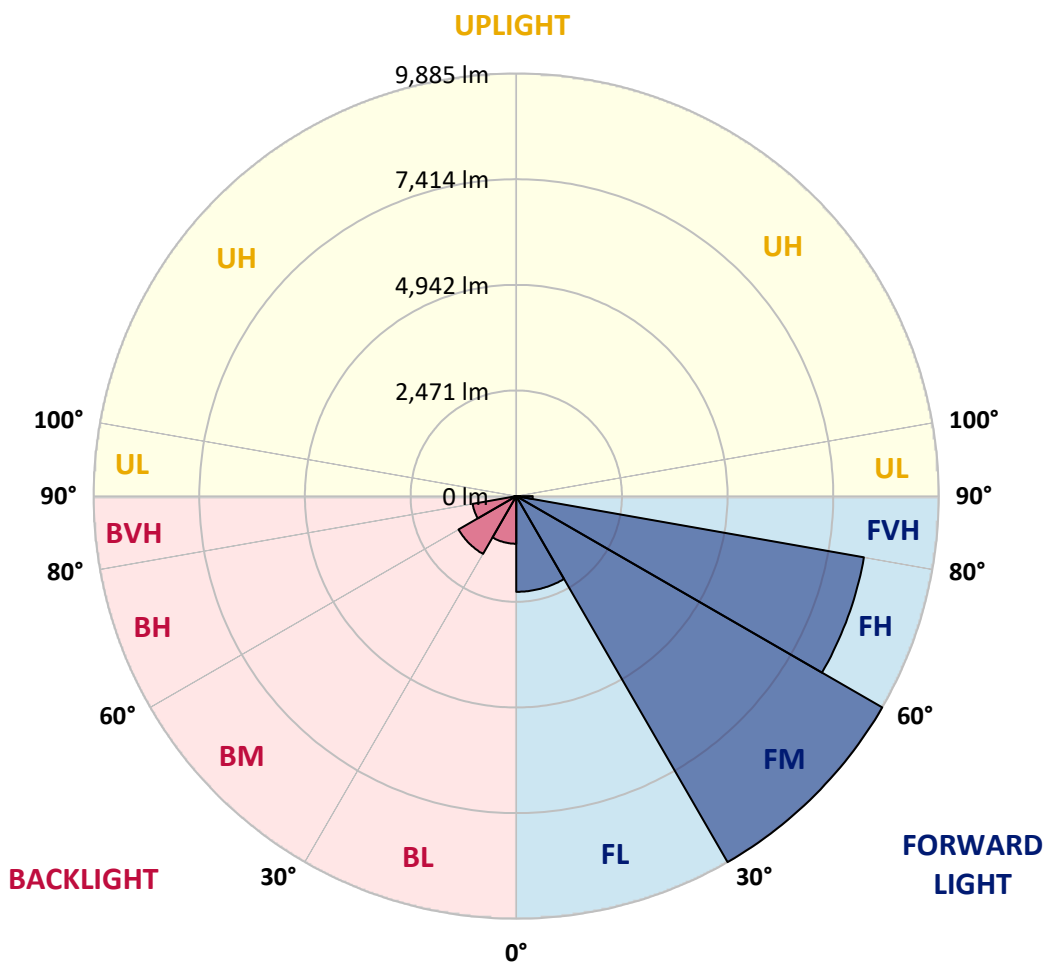
CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.1	9.1			
FM (30°-60°)	9884.8	40.3			
FH (60°-80°)	8256.9	33.7			G4/12000
FVH (80°-90°)	386.7	1.6			G3/500
BL (0°-30°)	1114.0	4.5	B3/2500		
BM (30°-60°)	1559.0	6.4	B2/2500		
BH (60°-80°)	1037.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	51.4	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: P480675

CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9
2.5°	6927.1	6938.1	6938.1	6960.2	6885.7	6921.5	6916.0	6882.9	6893.9	6836.0	6778.0
5°	6731.1	6722.8	6767.0	6772.5	6830.5	6847.0	6860.8	6838.8	6844.3	6717.3	6662.1
7.5°	6228.8	6226.1	6300.6	6364.1	6485.5	6598.6	6673.2	6651.1	6681.4	6601.4	6471.7
10°	5632.7	5696.2	5773.5	5836.9	6060.5	6204.0	6397.2	6416.5	6532.4	6513.1	6278.5
12.5°	5185.6	5213.2	5271.2	5453.3	5657.6	5894.9	6170.9	6195.7	6308.9	6364.1	6159.8
15°	4818.6	4843.4	4917.9	5053.2	5282.2	5563.7	5914.2	5977.7	6204.0	6223.3	6005.3
17.5°	4550.9	4570.2	4619.9	4755.1	4942.8	5304.3	5635.5	5748.6	6046.7	6140.5	5845.2
20°	4446.0	4404.6	4432.2	4517.8	4705.4	4984.2	5411.9	5511.3	5892.1	6077.0	5693.4
22.5°	4399.1	4363.2	4379.8	4374.3	4523.3	4722.0	5171.8	5276.7	5745.9	6002.5	5558.2
25°	4435.0	4435.0	4418.4	4404.6	4421.2	4550.9	4912.4	5075.2	5549.9	5939.1	5420.2
27.5°	4628.2	4553.6	4561.9	4504.0	4487.4	4487.4	4796.5	4893.1	5486.5	5903.2	5307.1
30°	4752.4	4788.2	4791.0	4705.4	4619.9	4465.3	4688.9	4782.7	5434.0	5947.3	5240.8
32.5°	5069.7	5053.2	5006.3	4989.7	4862.7	4688.9	4741.3	4804.8	5403.7	6046.7	5260.2
35°	5387.1	5378.8	5381.6	5373.3	5240.8	4984.2	4882.1	4967.6	5458.9	6220.6	5326.4
37.5°	5715.5	5737.6	5831.4	5831.4	5690.7	5411.9	5276.7	5251.9	5660.3	6504.8	5483.7
40°	6043.9	6099.1	6217.8	6405.5	6206.8	5947.3	5729.3	5690.7	5903.2	6885.7	5861.8
42.5°	6358.5	6449.6	6684.2	6962.9	6896.7	6637.3	6347.5	6303.4	6402.7	7451.4	6388.9
45°	6761.5	6838.8	7208.6	7636.3	7727.4	7498.3	7158.9	7123.0	7117.5	8279.4	7114.7
47.5°	7374.1	7456.9	7826.8	8257.3	8538.8	8574.7	8193.8	8155.2	8022.7	9397.1	8177.2
50°	8141.4	8276.6	8588.5	9090.7	9499.2	9882.8	9775.2	9662.0	9402.6	10696.9	9524.0
52.5°	8701.6	8867.2	9289.4	9932.5	10652.8	11262.7	11649.1	11649.1	11052.9	12123.7	11144.0
55°	8850.6	8950.0	9482.6	10412.7	11646.3	13189.0	13997.6	13936.9	13017.9	13625.1	13029.0
57.5°	8257.3	8387.0	9032.8	10007.0	12167.9	14991.2	16329.7	16343.5	15165.0	15369.3	14889.0
60°	6623.5	6664.9	7426.6	8729.2	11665.6	16442.8	19514.4	19566.9	17607.4	16923.0	15835.7
62.5°	4578.5	4711.0	5285.0	6427.5	9664.8	16280.0	22586.1	22845.5	19564.1	17742.7	15984.7
65°	3013.7	3093.7	3400.1	4095.5	6728.4	14110.8	23541.0	24341.3	21059.9	17789.6	15361.0
67.5°	2185.8	2199.5	2290.6	2649.4	4043.1	10147.7	21909.9	23038.7	21620.2	17397.7	13898.3
70°	1766.3	1777.3	1810.4	2039.5	2610.8	6350.3	17869.6	19638.6	19939.5	15540.4	11193.7
72.5°	1435.1	1448.9	1490.3	1705.5	2152.6	3532.5	13067.6	15223.0	16219.3	11497.3	7440.4
75°	1128.8	1139.8	1239.1	1451.6	2022.9	2425.9	8668.5	10779.7	10915.0	6720.1	3482.9
77.5°	772.7	792.1	913.5	1230.9	1904.3	2122.3	5403.7	6905.0	6195.7	2630.1	1197.7
80°	491.2	518.8	590.6	932.8	1683.5	2025.7	3361.4	4123.1	2712.9	899.7	576.8
82.5°	289.8	317.4	389.1	604.4	1321.9	1879.4	2367.9	2580.4	1272.3	460.9	347.7
85°	160.1	179.4	234.6	364.3	775.5	1669.7	1896.0	1851.8	728.6	245.6	218.0
87.5°	52.4	60.7	85.6	146.3	320.1	786.5	1137.0	1068.0	378.1	113.2	85.6
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: P480675

CATALOG NUMBER: IFLD-M-SA4D-830-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9	6744.9
2.5°	6739.4	6731.1	6606.9	6513.1	6353.0	6220.6	6168.1	6096.4	6093.6	6041.2	6027.4
5°	6576.6	6491.0	6300.6	6118.4	5834.2	5643.8	5469.9	5348.5	5298.8	5191.2	5166.3
7.5°	6366.8	6253.7	5961.1	5618.9	5285.0	4986.9	4716.5	4446.0	4294.2	4241.8	4183.8
10°	6148.8	5950.1	5516.8	5133.2	4666.8	4208.7	3783.7	3402.8	3195.8	3049.6	2986.1
12.5°	5974.9	5710.0	5158.0	4584.0	3968.6	3355.9	2861.9	2461.7	2227.1	2116.8	2067.1
15°	5779.0	5428.5	4766.2	4040.3	3273.1	2577.6	2094.7	1780.1	1686.2	1633.8	1625.5
17.5°	5572.0	5166.3	4341.1	3504.9	2594.2	1940.1	1628.3	1501.3	1459.9	1437.8	1426.8
20°	5378.8	4931.7	3905.1	2908.8	2031.2	1556.5	1410.3	1344.0	1341.3	1352.3	1349.5
22.5°	5105.6	4625.4	3474.6	2356.9	1622.8	1355.1	1261.2	1244.7	1261.2	1275.0	1280.5
25°	4951.1	4374.3	2994.4	1871.1	1341.3	1203.3	1172.9	1167.4	1192.2	1208.8	1206.0
27.5°	4791.0	4114.8	2547.3	1498.6	1175.7	1095.6	1090.1	1095.6	1120.5	1145.3	1142.6
30°	4666.8	3907.9	2127.8	1252.9	1048.7	1018.4	1012.8	1018.4	1032.2	1034.9	1034.9
32.5°	4564.7	3662.2	1771.8	1087.4	971.4	946.6	952.1	949.4	952.1	954.9	957.6
35°	4504.0	3516.0	1479.2	985.2	908.0	888.7	885.9	877.6	880.4	883.1	880.4
37.5°	4633.7	3444.2	1247.4	913.5	863.8	847.3	841.7	836.2	827.9	827.9	827.9
40°	4829.6	3405.6	1106.7	866.6	830.7	811.4	794.8	789.3	789.3	792.1	794.8
42.5°	5218.8	3469.1	1010.1	830.7	789.3	767.2	750.7	753.4	761.7	770.0	764.5
45°	5781.8	3662.2	965.9	803.1	764.5	734.1	723.1	720.3	728.6	742.4	753.4
47.5°	6518.6	3963.1	949.4	778.3	747.9	706.5	692.7	701.0	712.0	731.3	723.1
50°	7724.6	4639.2	963.2	756.2	723.1	692.7	676.1	667.9	676.1	689.9	695.5
52.5°	9300.5	5867.3	1015.6	745.1	706.5	681.7	654.1	640.3	648.5	659.6	659.6
55°	11185.4	7545.3	1161.9	731.3	678.9	665.1	634.8	607.2	612.7	612.7	609.9
57.5°	12846.8	8812.0	1335.7	712.0	662.3	643.0	604.4	571.3	565.8	568.5	571.3
60°	13591.9	9148.7	1418.5	706.5	662.3	615.4	563.0	529.9	521.6	516.1	516.1
62.5°	13462.2	8566.4	1250.2	681.7	678.9	593.4	524.4	488.5	477.4	466.4	469.2
65°	12678.5	7735.7	985.2	648.5	681.7	579.6	485.7	449.8	430.5	416.7	414.0
67.5°	11246.1	6604.2	781.0	623.7	654.1	554.7	452.6	411.2	394.6	380.9	375.3
70°	8798.2	5177.4	678.9	590.6	587.8	494.0	414.0	378.1	353.3	336.7	336.7
72.5°	5704.5	3273.1	582.3	524.4	507.8	414.0	358.8	336.7	317.4	303.6	303.6
75°	2583.2	1520.6	469.2	438.8	414.0	331.2	303.6	292.5	276.0	262.2	262.2
77.5°	927.3	648.5	350.5	345.0	309.1	256.7	245.6	237.3	226.3	212.5	212.5
80°	518.8	411.2	262.2	251.1	215.3	190.4	176.6	176.6	171.1	162.8	160.1
82.5°	328.4	267.7	193.2	168.3	140.7	127.0	121.4	118.7	115.9	104.9	102.1
85°	207.0	182.1	127.0	99.4	82.8	63.5	60.7	58.0	52.4	46.9	46.9
87.5°	93.8	104.9	49.7	30.4	22.1	13.8	8.3	2.8	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)