

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: P480517

Luminaire Tested: **IFLD-M-SA4B-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480517  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

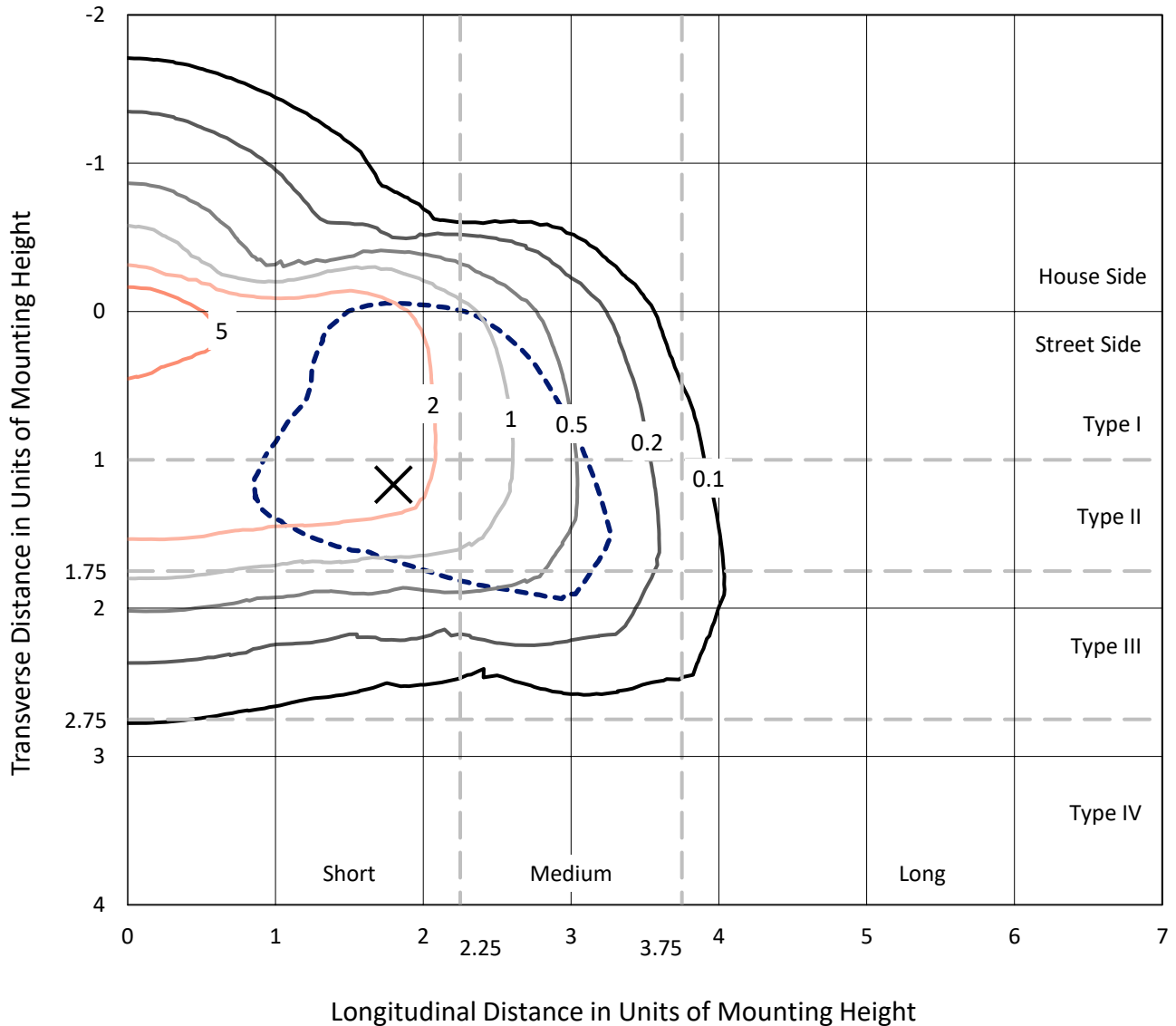
Lumens per Lamp: N/A  
Luminaire Lumens: 22536.3 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

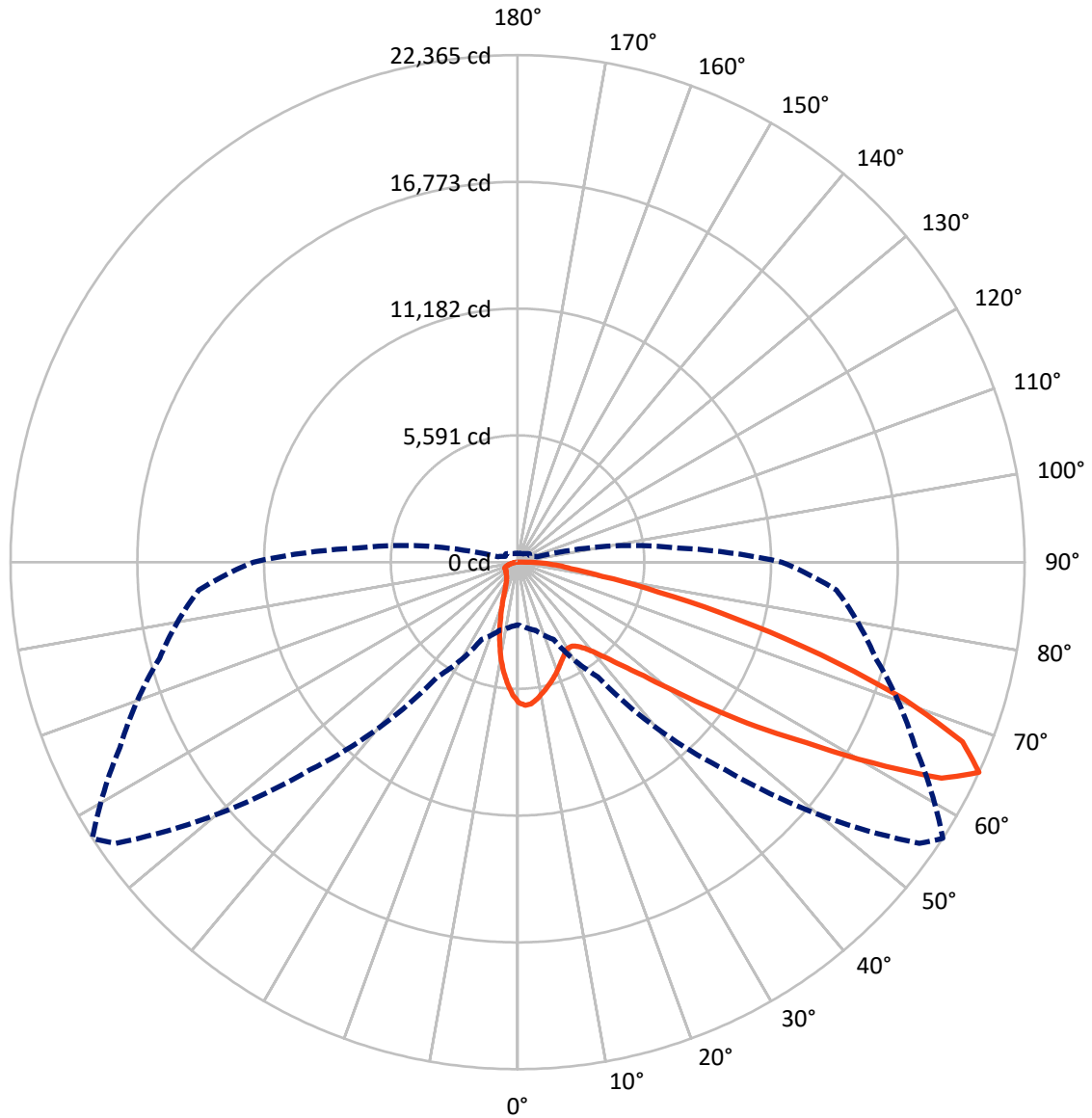
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3456.2	0.0	3456.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	19080.1	0.0	19080.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	22536.3	0.0	22536.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.0	2.3
10°-20°	1116.9	5.0
20°-30°	1444.0	6.4
30°-40°	1943.2	8.6
40°-50°	3098.5	13.7
50°-60°	5472.8	24.3
60°-70°	6020.8	26.7
70°-80°	2518.6	11.2
80°-90°	402.5	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°	22536.3	100.0
0°-180°	22536.3	100.0

**Coefficient of Utilization**



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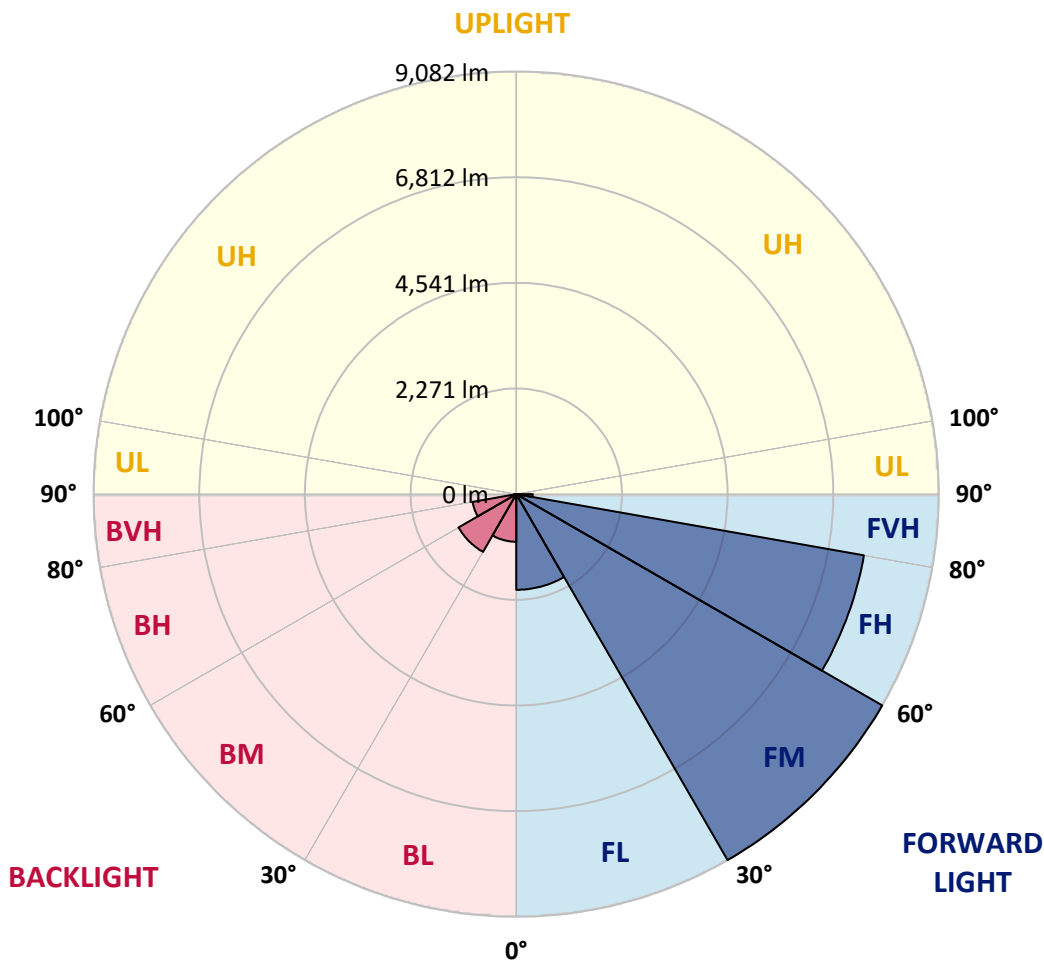
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.3	9.1			
FM (30°-60°)	9082.1	40.3			
FH (60°-80°)	7586.4	33.7			G4/12000
FVH (80°-90°)	355.3	1.6			G3/500
BL (0°-30°)	1023.5	4.5	B3/2500		
BM (30°-60°)	1432.4	6.4	B2/2500		
BH (60°-80°)	953.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	47.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2
2.5°	6364.5	6374.7	6374.7	6394.9	6326.5	6359.4	6354.4	6323.9	6334.1	6280.8	6227.6
5°	6184.5	6176.9	6217.4	6222.5	6275.8	6291.0	6303.7	6283.4	6288.4	6171.8	6121.1
7.5°	5723.0	5720.5	5788.9	5847.2	5958.8	6062.8	6131.2	6110.9	6138.8	6065.3	5946.1
10°	5175.3	5233.6	5304.6	5362.9	5568.3	5700.2	5877.7	5895.4	6001.9	5984.2	5768.6
12.5°	4764.5	4789.9	4843.1	5010.5	5198.1	5416.2	5669.7	5692.6	5796.5	5847.2	5659.6
15°	4427.3	4450.1	4518.5	4642.8	4853.3	5111.9	5433.9	5492.2	5700.2	5717.9	5517.6
17.5°	4181.3	4199.1	4244.7	4368.9	4541.4	4873.5	5177.8	5281.8	5555.6	5641.8	5370.5
20°	4084.9	4046.9	4072.3	4150.9	4323.3	4579.4	4972.4	5063.7	5413.6	5583.5	5231.1
22.5°	4041.8	4008.9	4024.1	4019.0	4155.9	4338.5	4751.8	4848.2	5279.2	5515.1	5106.8
25°	4074.8	4074.8	4059.6	4046.9	4062.1	4181.3	4513.5	4663.1	5099.2	5456.7	4980.0
27.5°	4252.3	4183.8	4191.4	4138.2	4123.0	4123.0	4407.0	4495.7	5040.9	5423.8	4876.1
30°	4366.4	4399.4	4401.9	4323.3	4244.7	4102.7	4308.1	4394.3	4992.7	5464.3	4815.2
32.5°	4658.0	4642.8	4599.7	4584.5	4467.8	4308.1	4356.3	4414.6	4964.8	5555.6	4833.0
35°	4949.6	4942.0	4944.5	4936.9	4815.2	4579.4	4485.6	4564.2	5015.5	5715.4	4893.8
37.5°	5251.4	5271.6	5357.9	5357.9	5228.5	4972.4	4848.2	4825.4	5200.6	5976.6	5038.4
40°	5553.1	5603.8	5712.8	5885.3	5702.7	5464.3	5264.0	5228.5	5423.8	6326.5	5385.7
42.5°	5842.2	5925.8	6141.4	6397.5	6336.6	6098.3	5832.0	5791.4	5882.7	6846.3	5870.1
45°	6212.4	6283.4	6623.1	7016.2	7099.9	6889.4	6577.5	6544.5	6539.5	7607.0	6536.9
47.5°	6775.3	6851.4	7191.1	7586.7	7845.3	7878.3	7528.4	7492.9	7371.2	8633.9	7513.2
50°	7480.2	7604.4	7891.0	8352.5	8727.7	9080.2	8981.3	8877.3	8639.0	9828.2	8750.6
52.5°	7994.9	8147.1	8535.0	9125.8	9787.7	10348.0	10703.0	10703.0	10155.3	11139.2	10239.0
55°	8131.9	8223.1	8712.5	9567.0	10700.5	12117.9	12860.9	12805.1	11960.7	12518.6	11970.9
57.5°	7586.7	7705.9	8299.2	9194.3	11179.7	13773.7	15003.5	15016.2	13933.5	14121.1	13679.9
60°	6085.6	6123.6	6823.5	8020.3	10718.2	15107.5	17929.7	17977.8	16177.5	15548.7	14549.6
62.5°	4206.7	4328.4	4855.8	5905.6	8879.9	14957.9	20751.8	20990.2	17975.3	16301.8	14686.5
65°	2768.9	2842.5	3123.9	3762.9	6181.9	12964.8	21629.2	22364.5	19349.6	16344.9	14113.5
67.5°	2008.2	2020.9	2104.6	2434.2	3714.7	9323.6	20130.6	21167.7	19864.4	15984.8	12769.6
70°	1622.8	1633.0	1663.4	1873.9	2398.7	5834.6	16418.4	18043.8	18320.1	14278.3	10284.6
72.5°	1318.5	1331.2	1369.3	1567.0	1977.8	3245.6	12006.4	13986.7	14902.1	10563.6	6836.1
75°	1037.1	1047.2	1138.5	1333.8	1858.6	2228.8	7964.5	9904.3	10028.5	6174.3	3200.0
77.5°	710.0	727.7	839.3	1130.9	1749.6	1949.9	4964.8	6344.2	5692.6	2416.5	1100.5
80°	451.3	476.7	542.6	857.1	1546.8	1861.2	3088.4	3788.3	2492.6	826.6	530.0
82.5°	266.2	291.6	357.5	555.3	1214.6	1726.8	2175.6	2370.8	1168.9	423.5	319.5
85°	147.1	164.8	215.5	334.7	712.5	1534.1	1742.0	1701.4	669.4	225.7	200.3
87.5°	48.2	55.8	78.6	134.4	294.1	722.7	1044.7	981.3	347.4	104.0	78.6
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°	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2	6197.2
2.5°	6192.1	6184.5	6070.4	5984.2	5837.1	5715.4	5667.2	5601.3	5598.7	5550.6	5537.9
5°	6042.5	5963.9	5788.9	5621.6	5360.4	5185.4	5025.7	4914.1	4868.5	4769.6	4746.8
7.5°	5849.8	5745.8	5477.0	5162.6	4855.8	4581.9	4333.4	4084.9	3945.5	3897.3	3844.1
10°	5649.5	5466.9	5068.8	4716.3	4287.8	3866.9	3476.4	3126.5	2936.3	2801.9	2743.6
12.5°	5489.7	5246.3	4739.2	4211.7	3646.3	3083.4	2629.5	2261.8	2046.3	1944.9	1899.2
15°	5309.7	4987.6	4379.1	3712.2	3007.3	2368.3	1924.6	1635.5	1549.3	1501.1	1493.5
17.5°	5119.5	4746.8	3988.6	3220.3	2383.5	1782.6	1496.0	1379.4	1341.4	1321.1	1310.9
20°	4942.0	4531.2	3588.0	2672.6	1866.2	1430.1	1295.7	1234.9	1232.3	1242.5	1239.9
22.5°	4691.0	4249.8	3192.4	2165.5	1491.0	1245.0	1158.8	1143.6	1158.8	1171.5	1176.5
25°	4549.0	4019.0	2751.2	1719.2	1232.3	1105.5	1077.7	1072.6	1095.4	1110.6	1108.1
27.5°	4401.9	3780.7	2340.4	1376.9	1080.2	1006.7	1001.6	1006.7	1029.5	1052.3	1049.8
30°	4287.8	3590.5	1955.0	1151.2	963.6	935.7	930.6	935.7	948.3	950.9	950.9
32.5°	4194.0	3364.8	1627.9	999.1	892.6	869.7	874.8	872.3	874.8	877.3	879.9
35°	4138.2	3230.4	1359.1	905.2	834.2	816.5	813.9	806.3	808.9	811.4	808.9
37.5°	4257.4	3164.5	1146.1	839.3	793.7	778.4	773.4	768.3	760.7	760.7	760.7
40°	4437.4	3129.0	1016.8	796.2	763.2	745.5	730.3	725.2	725.2	727.7	730.3
42.5°	4794.9	3187.3	928.1	763.2	725.2	704.9	689.7	692.2	699.8	707.4	702.4
45°	5312.2	3364.8	887.5	737.9	702.4	674.5	664.3	661.8	669.4	682.1	692.2
47.5°	5989.2	3641.2	872.3	715.1	687.2	649.1	636.5	644.1	654.2	672.0	664.3
50°	7097.3	4262.4	884.9	694.8	664.3	636.5	621.2	613.6	621.2	633.9	639.0
52.5°	8545.2	5390.8	933.1	684.6	649.1	626.3	601.0	588.3	595.9	606.0	606.0
55°	10277.0	6932.5	1067.5	672.0	623.8	611.1	583.2	557.8	562.9	562.9	560.4
57.5°	11803.5	8096.4	1227.3	654.2	608.6	590.8	555.3	524.9	519.8	522.3	524.9
60°	12488.1	8405.7	1303.3	649.1	608.6	565.5	517.3	486.8	479.2	474.2	474.2
62.5°	12369.0	7870.7	1148.7	626.3	623.8	545.2	481.8	448.8	438.7	428.5	431.1
65°	11648.8	7107.5	905.2	595.9	626.3	532.5	446.3	413.3	395.6	382.9	380.3
67.5°	10332.8	6067.8	717.6	573.1	601.0	509.7	415.8	377.8	362.6	349.9	344.8
70°	8083.7	4756.9	623.8	542.6	540.1	453.9	380.3	347.4	324.6	309.4	309.4
72.5°	5241.2	3007.3	535.0	481.8	466.6	380.3	329.6	309.4	291.6	278.9	278.9
75°	2373.4	1397.1	431.1	403.2	380.3	304.3	278.9	268.8	253.6	240.9	240.9
77.5°	852.0	595.9	322.0	317.0	284.0	235.8	225.7	218.1	207.9	195.2	195.2
80°	476.7	377.8	240.9	230.7	197.8	175.0	162.3	162.3	157.2	149.6	147.1
82.5°	301.7	246.0	177.5	154.7	129.3	116.6	111.6	109.0	106.5	96.4	93.8
85°	190.2	167.4	116.6	91.3	76.1	58.3	55.8	53.2	48.2	43.1	43.1
87.5°	86.2	96.4	45.6	27.9	20.3	12.7	7.6	2.5	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)