

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: P480168

Luminaire Tested: **IFLD-M-SA4D-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480168  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

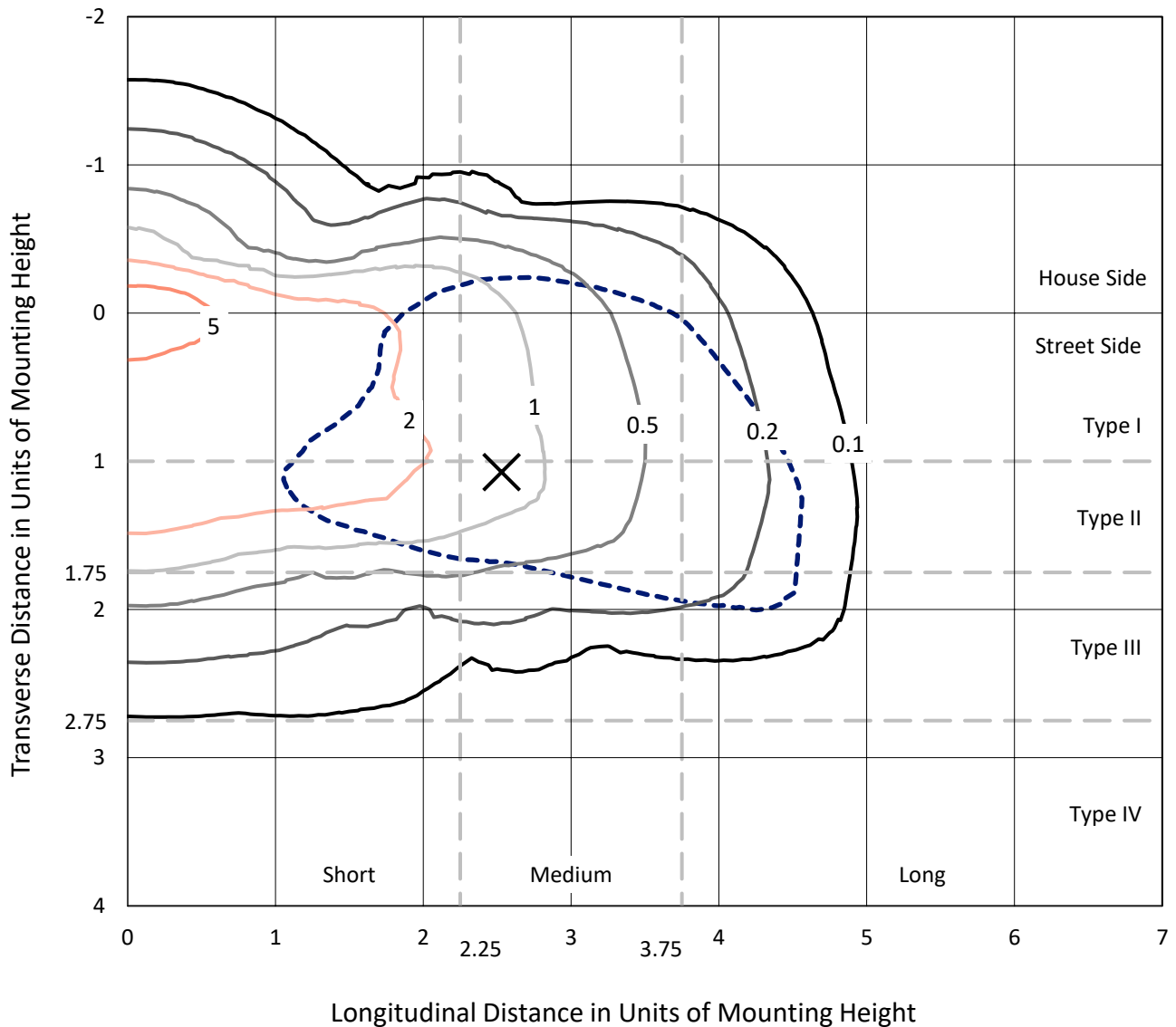
Lumens per Lamp: N/A  
Luminaire Lumens: 31906.2 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

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

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### Iso-Footcandle Lines of Horizontal Illumination

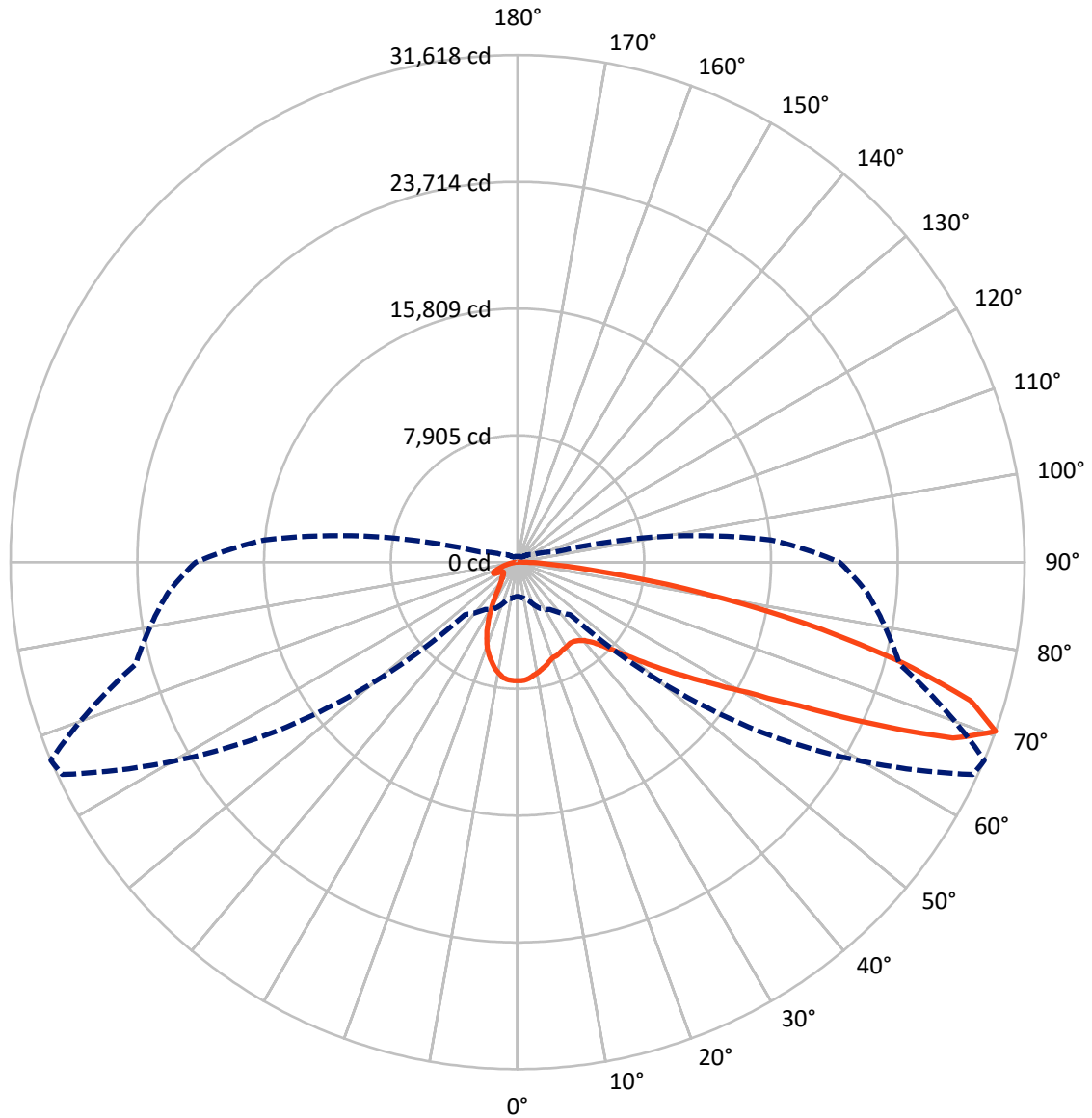
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480168  
CATALOG NUMBER: IFLD-M-SA4D-750-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480168

CATALOG NUMBER: IFLD-M-SA4D-750-U-SL2

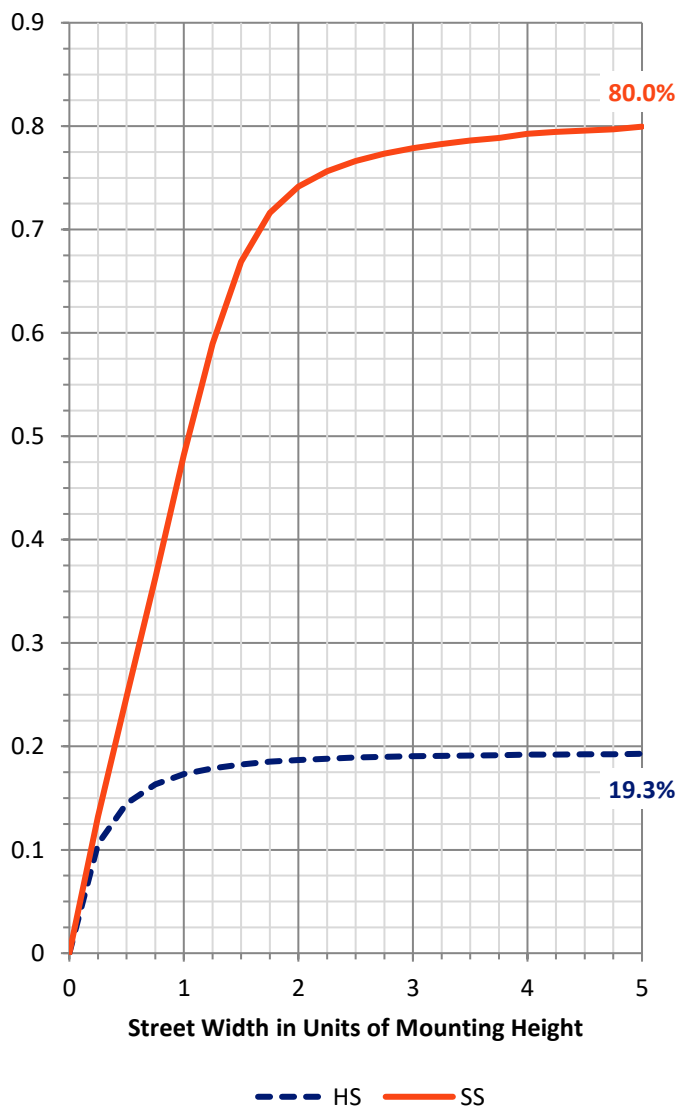
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6214.0	0.0	6214.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	25692.1	0.0	25692.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	31906.2	0.0	31906.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.5	2.0
10°-20°	1543.5	4.8
20°-30°	2084.3	6.5
30°-40°	2789.0	8.7
40°-50°	4101.2	12.9
50°-60°	6392.7	20.0
60°-70°	7874.8	24.7
70°-80°	5564.2	17.4
80°-90°	912.0	2.9
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°	31906.2	100.0
0°-180°	31906.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480168

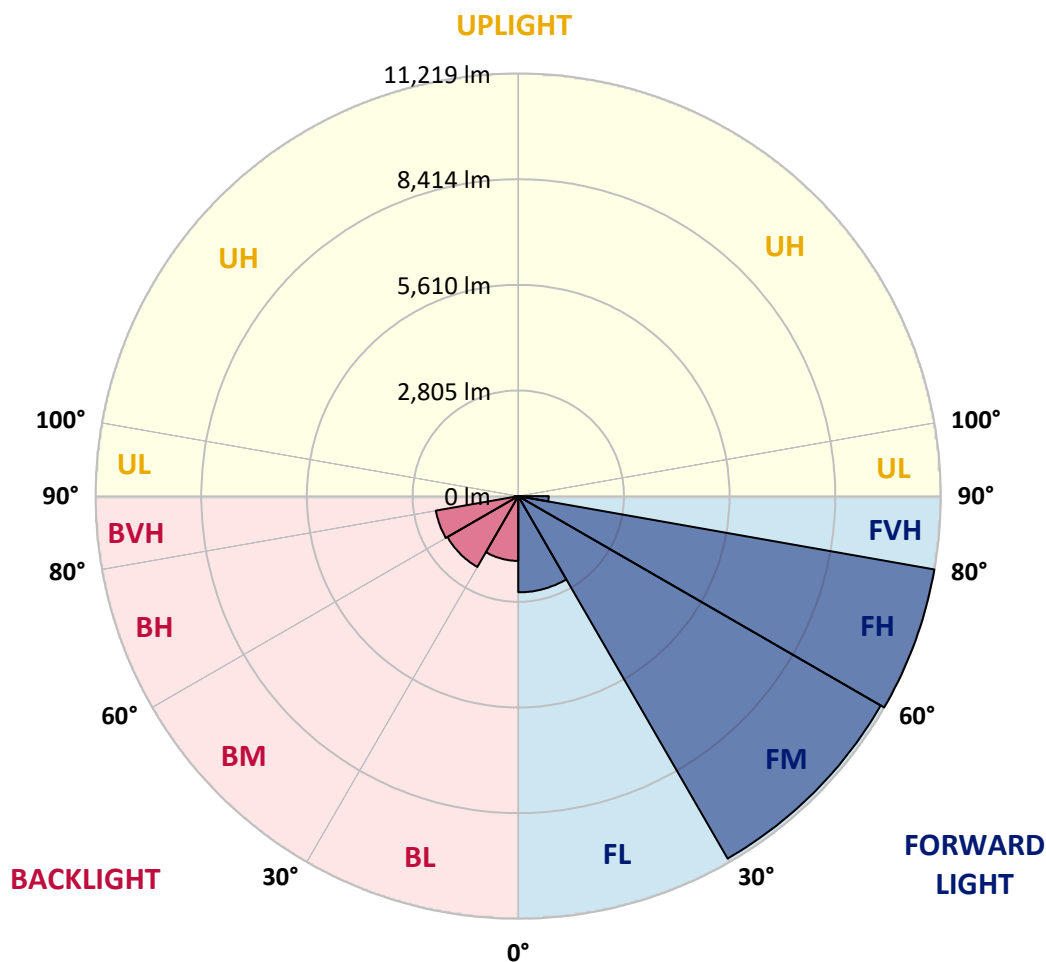
CATALOG NUMBER: IFLD-M-SA4D-750-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2553.8	8.0			
FM (30°-60°)	11112.2	34.8			
FH (60°-80°)	11219.3	35.2			G4/12000
FVH (80°-90°)	806.8	2.5			G5
BL (0°-30°)	1718.4	5.4	B3/2500		
BM (30°-60°)	2170.7	6.8	B2/2500		
BH (60°-80°)	2219.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	105.2	0.3			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 III Medium





REPORT NUMBER: P480168

CATALOG NUMBER: IFLD-M-SA4D-750-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2
2.5°	6877.5	6955.2	6983.5	7025.9	7135.4	7216.6	7266.1	7322.6	7389.7	7446.2	7481.6
5°	6397.1	6439.5	6506.6	6552.5	6690.3	6909.3	7057.7	7297.9	7290.8	7379.1	7513.3
7.5°	5930.8	5973.2	6005.0	6096.9	6294.7	6492.5	6764.5	7153.0	7124.8	7329.7	7538.1
10°	5641.2	5609.4	5620.0	5775.4	5930.8	6153.4	6496.0	6891.6	6994.1	7312.0	7608.7
12.5°	5369.2	5333.9	5418.7	5517.6	5708.3	5909.7	6319.4	6676.2	6831.6	7248.4	7640.5
15°	5199.6	5174.9	5280.9	5323.3	5549.3	5789.5	6079.2	6513.7	6683.2	7170.7	7591.1
17.5°	5104.3	5125.5	5164.3	5256.2	5401.0	5605.9	5923.8	6404.2	6478.4	7075.3	7580.5
20°	5121.9	5146.7	5150.2	5189.0	5288.0	5446.9	5771.9	6287.6	6337.1	7057.7	7608.7
22.5°	5263.2	5227.9	5242.0	5217.3	5245.6	5369.2	5655.3	6132.2	6322.9	6909.3	7548.7
25°	5475.2	5425.7	5418.7	5333.9	5280.9	5316.2	5634.1	6093.3	6217.0	6863.4	7545.1
27.5°	5849.6	5775.4	5775.4	5648.3	5432.8	5376.3	5574.1	6029.8	6139.3	6821.0	7463.9
30°	6209.9	6209.9	6213.4	6033.3	5793.1	5514.0	5598.8	6005.0	6075.7	6693.8	7354.4
32.5°	6647.9	6637.3	6619.7	6531.3	6160.4	5743.6	5718.9	5973.2	6008.6	6651.4	7322.6
35°	7075.3	7047.1	7184.8	7107.1	6729.2	6192.2	5842.5	5987.4	6065.1	6587.9	7223.7
37.5°	7396.8	7414.4	7700.6	7750.0	7425.0	6700.9	6192.2	6128.7	6202.8	6679.7	7223.7
40°	7813.6	7884.2	8152.7	8318.7	8120.9	7372.1	6746.8	6365.3	6418.3	6884.6	7379.1
42.5°	8361.1	8421.2	8763.8	8979.3	8922.8	8226.9	7294.3	6859.9	6817.5	7227.2	7612.3
45°	9085.2	9095.8	9442.0	9738.7	9855.3	9120.6	8163.3	7485.1	7449.8	7817.1	8039.7
47.5°	9947.1	9936.5	10152.0	10469.9	10784.3	10187.3	9163.0	8435.3	8308.1	8661.4	8749.7
50°	10780.8	10734.9	10784.3	11190.5	11794.6	11522.6	10378.1	9597.4	9470.3	9664.6	9816.4
52.5°	11240.0	11296.5	11162.3	11699.2	12868.4	13101.5	11988.9	10985.7	10876.2	10971.5	11236.5
55°	10918.5	11035.1	10946.8	11455.5	13338.2	15026.7	14073.0	12592.9	12451.6	12416.3	12850.8
57.5°	9551.5	9763.5	9781.1	10586.5	13175.7	16517.3	17004.8	14489.8	14277.8	13917.5	14366.1
60°	7333.2	7545.1	7707.6	8661.4	11784.0	17407.5	20403.0	17188.5	16489.1	15556.5	15825.0
62.5°	5139.6	5284.4	5446.9	6033.3	9085.2	16884.7	23341.9	20989.3	19700.0	17283.9	17619.4
65°	3744.3	3857.3	4023.4	4369.5	5581.1	13970.5	24705.4	25503.7	24281.5	19481.0	19438.6
67.5°	2818.8	2889.5	3108.5	3663.1	3867.9	8629.6	23292.4	30272.4	29283.3	21921.9	20901.0
70°	2133.5	2193.6	2398.5	3157.9	3613.6	4627.4	18375.4	31335.6	31618.2	24659.5	21883.0
72.5°	1469.5	1536.6	1766.2	2631.6	3440.5	3670.1	11533.2	28467.3	29537.7	25786.3	20830.4
75°	900.8	946.7	1080.9	1995.8	3415.8	3588.9	6347.7	23327.8	24461.6	23825.8	18223.5
77.5°	635.8	632.3	657.0	1169.2	2960.1	3610.1	3913.9	17093.1	18195.2	17559.4	12366.8
80°	462.7	466.3	491.0	699.4	2009.9	3670.1	3083.8	11448.4	11776.9	9155.9	4878.2
82.5°	279.1	293.2	353.2	473.3	1208.1	3313.4	2850.6	6361.8	5952.0	2938.9	1342.3
85°	148.4	148.4	208.4	300.3	642.9	2472.7	2744.6	3027.2	2536.2	911.4	498.1
87.5°	35.3	35.3	60.1	120.1	257.9	1183.3	1872.2	1204.5	964.3	307.3	204.9
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: P480168  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2	7386.2
2.5°	7467.4	7425.0	7478.0	7372.1	7287.3	7290.8	7160.1	7153.0	7135.4	7043.5	7075.3
5°	7552.2	7516.9	7456.8	7340.3	7153.0	6965.8	6852.8	6708.0	6647.9	6616.1	6630.3
7.5°	7633.4	7569.9	7396.8	7234.3	6944.6	6591.4	6386.5	6192.2	5945.0	5916.7	5867.3
10°	7654.6	7520.4	7297.9	6951.7	6566.7	6174.6	5708.3	5348.0	5157.3	5008.9	4952.4
12.5°	7622.8	7566.3	7138.9	6693.8	6111.0	5496.4	4952.4	4443.7	4090.5	3906.8	3857.3
15°	7619.3	7520.4	6962.3	6301.7	5556.4	4754.6	3981.0	3369.9	2999.0	2847.1	2847.1
17.5°	7622.8	7386.2	6753.9	5906.1	4902.9	3818.5	2967.2	2465.6	2260.7	2239.5	2257.2
20°	7552.2	7287.3	6534.9	5439.8	4083.4	2868.3	2154.7	1949.9	1949.9	1978.1	1988.7
22.5°	7488.6	7138.9	6188.7	4864.1	3249.8	2077.0	1752.1	1692.0	1759.1	1808.6	1829.8
25°	7400.3	7015.3	5835.5	4267.1	2472.7	1674.3	1522.5	1536.6	1600.2	1688.5	1681.4
27.5°	7273.1	6799.8	5415.1	3574.8	1840.4	1444.7	1405.9	1412.9	1480.1	1518.9	1511.9
30°	7128.3	6580.8	5026.6	2885.9	1458.9	1324.6	1321.1	1338.8	1349.4	1370.6	1367.0
32.5°	6944.6	6291.1	4613.3	2243.1	1314.0	1257.5	1243.4	1232.8	1243.4	1239.9	1229.3
35°	6813.9	6135.7	4192.9	1709.7	1232.8	1197.5	1186.9	1169.2	1155.1	1133.9	1130.4
37.5°	6778.6	5980.3	3751.4	1395.3	1169.2	1151.6	1116.2	1084.4	1066.8	1056.2	1049.1
40°	6757.4	5877.9	3320.4	1225.7	1116.2	1098.6	1056.2	1013.8	996.1	985.5	989.1
42.5°	6831.6	5821.3	2882.4	1141.0	1070.3	1038.5	992.6	943.1	939.6	932.5	943.1
45°	7093.0	5892.0	2476.2	1080.9	1024.4	971.4	911.4	886.6	883.1	876.0	883.1
47.5°	7686.4	6068.6	2130.0	1042.0	974.9	929.0	865.4	830.1	826.6	823.0	823.0
50°	8505.9	6612.6	1840.4	996.1	943.1	879.6	819.5	780.7	773.6	759.5	759.5
52.5°	9791.7	7527.5	1667.3	971.4	886.6	833.6	770.1	727.7	710.0	695.9	695.9
55°	11240.0	8661.4	1635.5	929.0	826.6	777.1	720.6	678.2	660.6	642.9	635.8
57.5°	12889.6	10162.6	1861.6	900.8	784.2	720.6	657.0	618.2	604.0	586.4	579.3
60°	14426.2	11660.3	2564.5	858.4	745.3	667.6	604.0	565.2	547.5	529.9	529.9
62.5°	16203.0	13514.8	3754.9	858.4	710.0	611.1	547.5	519.3	508.7	491.0	487.5
65°	18304.7	15432.9	4623.9	911.4	699.4	561.6	494.5	466.3	455.7	445.1	441.5
67.5°	19904.9	16535.0	3977.4	1052.6	745.3	519.3	441.5	423.9	416.8	406.2	399.2
70°	20074.4	15863.9	2398.5	1137.4	791.3	476.9	395.6	378.0	378.0	367.4	360.3
72.5°	18552.0	14076.5	1614.3	1013.8	717.1	427.4	349.7	335.6	328.5	321.4	317.9
75°	15524.8	11939.4	1275.2	808.9	551.0	353.2	303.8	289.7	279.1	275.5	268.5
77.5°	10427.5	7760.6	943.1	632.3	406.2	286.1	254.3	240.2	229.6	226.1	215.5
80°	4005.7	2956.6	607.6	459.2	286.1	226.1	201.3	187.2	180.2	169.6	162.5
82.5°	1179.8	957.3	339.1	282.6	183.7	155.4	144.8	134.2	123.6	113.0	109.5
85°	487.5	438.0	208.4	148.4	113.0	91.8	84.8	74.2	63.6	56.5	49.5
87.5°	226.1	187.2	95.4	56.5	38.9	21.2	10.6	3.5	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)