

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: P480130

Luminaire Tested: **IFLD-M-SA4E-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480130  
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-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

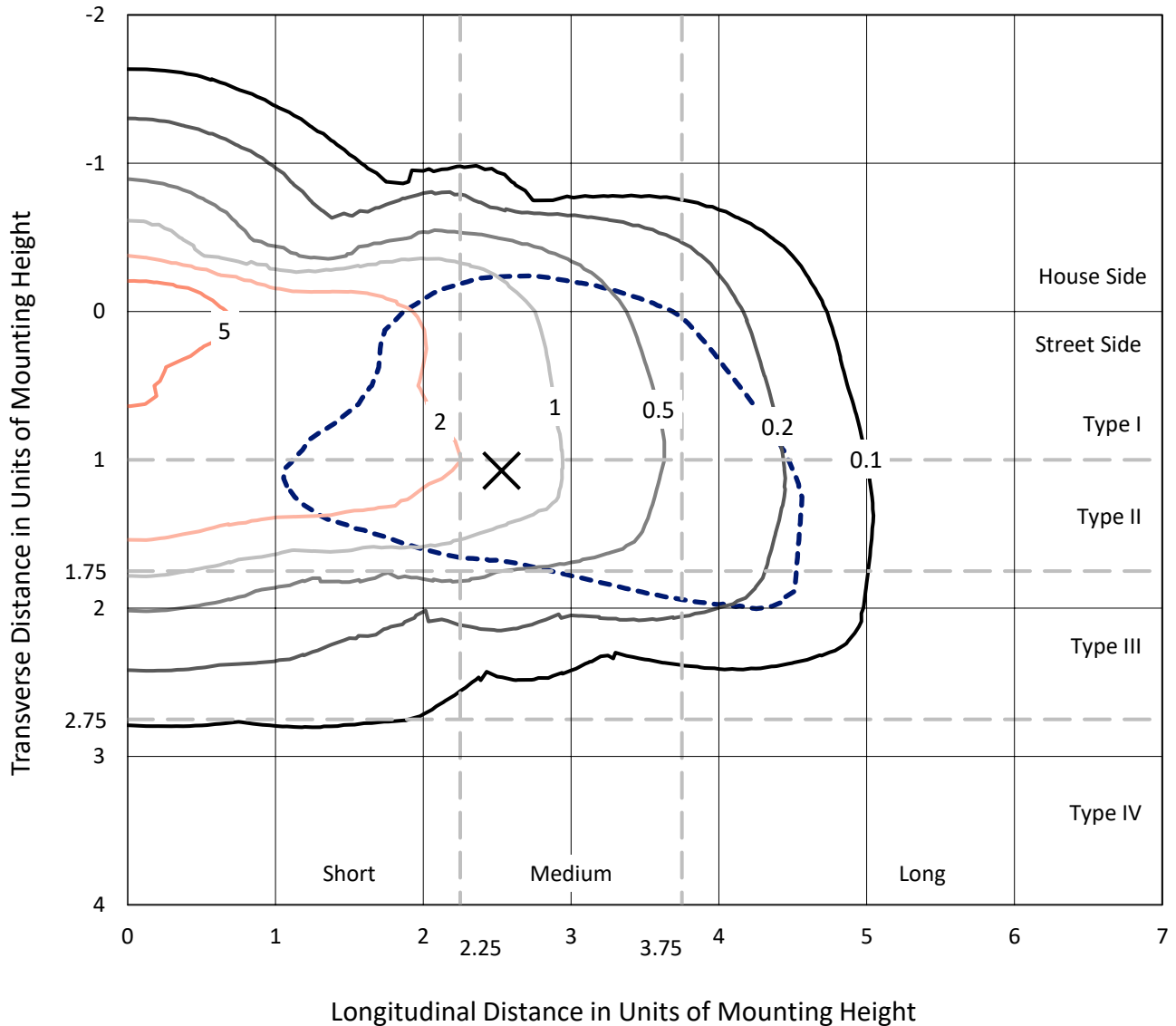
Lumens per Lamp: N/A  
Luminaire Lumens: 36098.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

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

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### Iso-Footcandle Lines of Horizontal Illumination

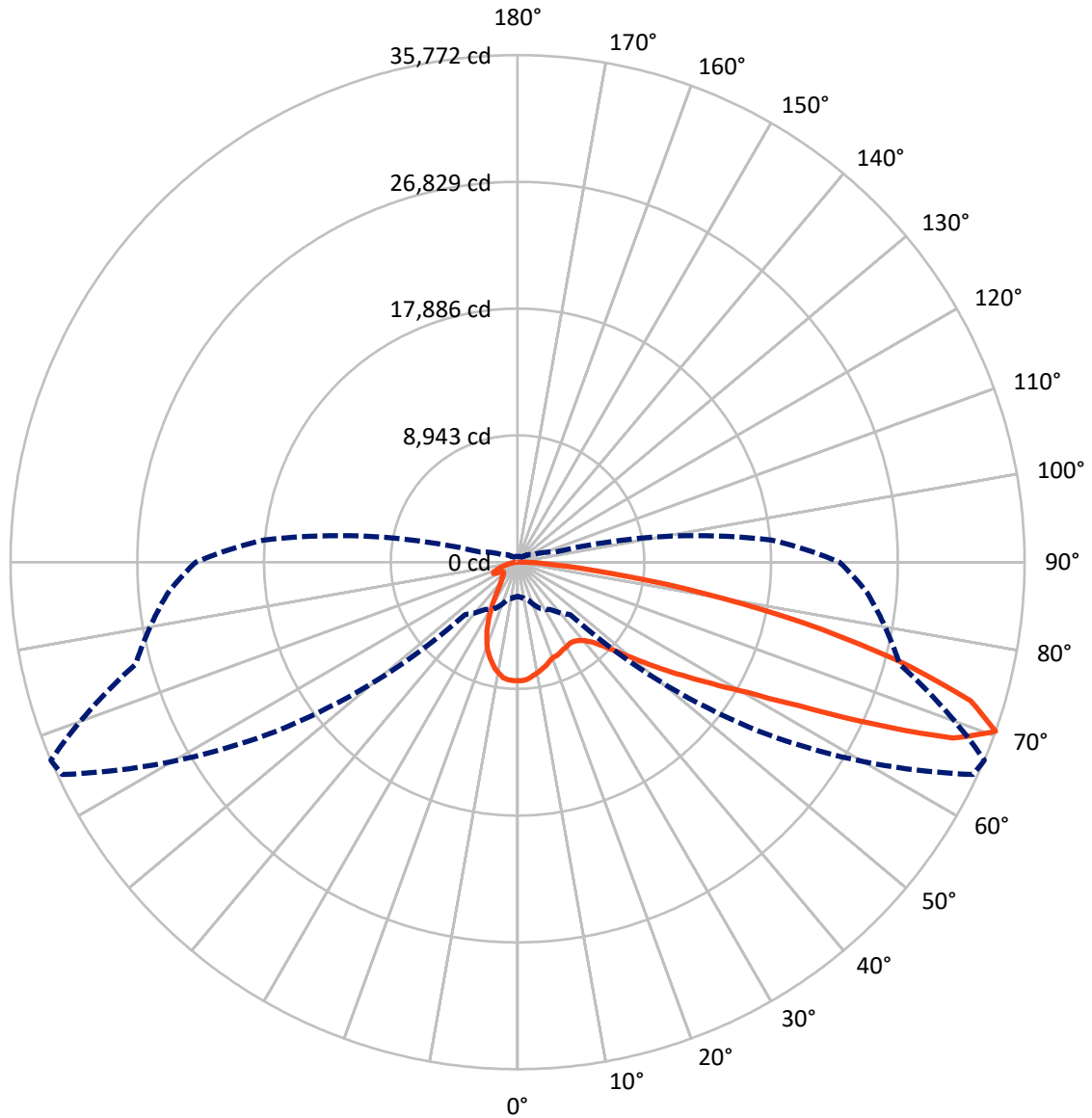
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480130  
CATALOG NUMBER: IFLD-M-SA4E-740-U-SL2

### Luminous Intensity Polar Plot



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

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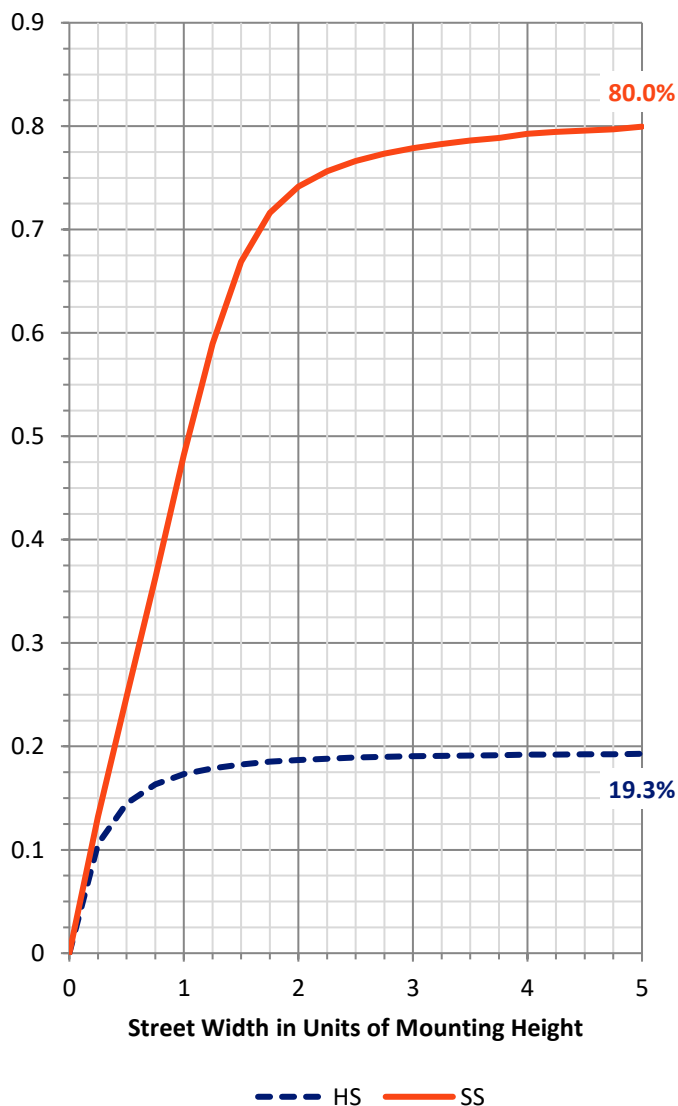
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7030.4	0.0	7030.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	29067.6	0.0	29067.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	36098.1	0.0	36098.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.1	2.0
10°-20°	1746.2	4.8
20°-30°	2358.2	6.5
30°-40°	3155.4	8.7
40°-50°	4640.0	12.9
50°-60°	7232.6	20.0
60°-70°	8909.4	24.7
70°-80°	6295.3	17.4
80°-90°	1031.8	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°	36098.1	100.0
0°-180°	36098.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P480130

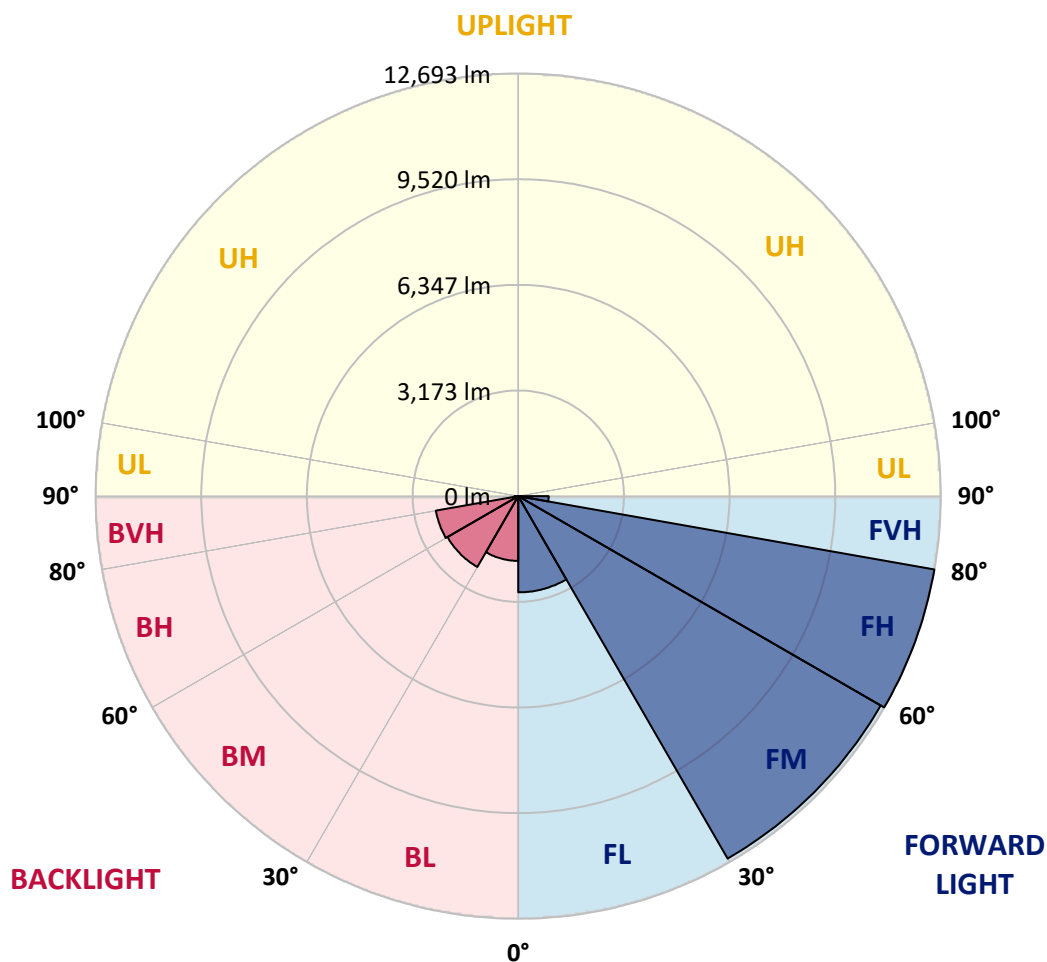
CATALOG NUMBER: IFLD-M-SA4E-740-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2889.4	8.0			
FM (30°-60°)	12572.2	34.8			
FH (60°-80°)	12693.3	35.2			G5
FVH (80°-90°)	912.8	2.5			G5
BL (0°-30°)	1944.2	5.4	B3/2500		
BM (30°-60°)	2455.9	6.8	B2/2500		
BH (60°-80°)	2511.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	119.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





REPORT NUMBER: P480130

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6
2.5°	7781.1	7869.0	7901.0	7949.0	8072.8	8164.8	8220.7	8284.7	8360.6	8424.5	8464.5
5°	7237.6	7285.5	7361.5	7413.4	7569.3	7817.1	7984.9	8256.7	8248.7	8348.6	8500.5
7.5°	6710.0	6758.0	6794.0	6897.9	7121.7	7345.5	7653.2	8092.8	8060.9	8292.6	8528.4
10°	6382.3	6346.4	6358.4	6534.2	6710.0	6961.8	7349.5	7797.1	7913.0	8272.7	8608.4
12.5°	6074.6	6034.6	6130.6	6242.5	6458.3	6686.1	7149.7	7553.3	7729.1	8200.7	8644.3
15°	5882.8	5854.8	5974.7	6022.7	6278.4	6550.2	6877.9	7369.5	7561.3	8112.8	8588.4
17.5°	5774.9	5798.9	5842.8	5946.7	6110.6	6342.4	6702.1	7245.6	7329.5	8004.9	8576.4
20°	5794.9	5822.8	5826.8	5870.8	5982.7	6162.5	6530.2	7113.7	7169.6	7984.9	8608.4
22.5°	5954.7	5914.8	5930.7	5902.8	5934.7	6074.6	6398.3	6937.8	7153.7	7817.1	8540.4
25°	6194.5	6138.6	6130.6	6034.6	5974.7	6014.7	6374.3	6893.9	7033.8	7765.1	8536.4
27.5°	6618.1	6534.2	6534.2	6390.3	6146.5	6082.6	6306.4	6821.9	6945.8	7717.2	8444.5
30°	7025.8	7025.8	7029.8	6825.9	6554.2	6238.5	6334.4	6794.0	6873.9	7573.3	8320.6
32.5°	7521.3	7509.3	7489.4	7389.4	6969.8	6498.2	6470.3	6758.0	6798.0	7525.3	8284.7
35°	8004.9	7972.9	8128.8	8040.9	7613.2	7005.8	6610.1	6774.0	6861.9	7453.4	8172.8
37.5°	8368.6	8388.6	8712.3	8768.2	8400.5	7581.3	7005.8	6933.9	7017.8	7557.3	8172.8
40°	8840.2	8920.1	9223.8	9411.7	9187.9	8340.6	7633.2	7201.6	7261.6	7789.1	8348.6
42.5°	9459.6	9527.6	9915.2	10159.0	10095.0	9307.7	8252.7	7761.1	7713.2	8176.7	8612.4
45°	10278.9	10290.9	10682.5	11018.2	11150.1	10318.8	9235.8	8468.5	8428.5	8844.2	9095.9
47.5°	11254.0	11242.0	11485.8	11845.5	12201.2	11525.8	10366.8	9543.5	9399.7	9799.3	9899.2
50°	12197.2	12145.2	12201.2	12660.8	13344.2	13036.4	11741.6	10858.4	10714.5	10934.3	11106.2
52.5°	12716.7	12780.7	12628.8	13236.3	14559.1	14822.9	13564.0	12429.0	12305.1	12413.0	12712.7
55°	12353.0	12484.9	12385.0	12960.5	15090.6	17000.9	15921.9	14247.4	14087.5	14047.5	14539.1
57.5°	10806.4	11046.2	11066.2	11977.4	14906.8	18687.4	19238.9	16393.5	16153.7	15746.0	16253.6
60°	8296.6	8536.4	8720.3	9799.3	13332.2	19694.5	23083.5	19446.8	18655.5	17600.4	17904.1
62.5°	5814.8	5978.7	6162.5	6825.9	10278.9	19103.1	26408.6	23746.9	22288.2	19554.7	19934.3
65°	4236.2	4364.1	4552.0	4943.6	6314.4	15806.0	27951.2	28854.4	27471.6	22040.5	21992.5
67.5°	3189.2	3269.1	3516.9	4144.3	4376.1	9763.3	26352.6	34249.6	33130.6	24802.0	23647.0
70°	2413.9	2481.8	2713.6	3572.8	4088.4	5235.4	20789.6	35452.6	35772.3	27899.3	24758.0
72.5°	1662.5	1738.5	1998.2	2977.4	3892.5	4152.3	13048.4	32207.4	33418.4	29174.1	23567.1
75°	1019.1	1071.1	1222.9	2258.0	3864.6	4060.4	7181.6	26392.6	27675.5	26956.1	20617.7
77.5°	719.4	715.4	743.3	1322.8	3349.0	4084.4	4428.1	19338.8	20585.7	19866.4	13991.6
80°	523.5	527.5	555.5	791.3	2274.0	4152.3	3488.9	12952.5	13324.2	10358.8	5519.1
82.5°	315.7	331.7	399.6	535.5	1366.8	3748.7	3225.1	7197.6	6734.0	3325.1	1518.7
85°	167.9	167.9	235.8	339.7	727.4	2797.5	3105.2	3425.0	2869.5	1031.1	563.5
87.5°	40.0	40.0	67.9	135.9	291.7	1338.8	2118.1	1362.8	1091.0	347.7	231.8
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: P480130  
 CATALOG NUMBER: IFLD-M-SA4E-740-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6	8356.6
2.5°	8448.5	8400.5	8460.5	8340.6	8244.7	8248.7	8100.8	8092.8	8072.8	7968.9	8004.9
5°	8544.4	8504.5	8436.5	8304.6	8092.8	7881.0	7753.1	7589.3	7521.3	7485.4	7501.3
7.5°	8636.3	8564.4	8368.6	8184.7	7857.0	7457.4	7225.6	7005.8	6726.0	6694.1	6638.1
10°	8660.3	8508.5	8256.7	7865.0	7429.4	6985.8	6458.3	6050.6	5834.8	5667.0	5603.0
12.5°	8624.4	8560.4	8076.8	7573.3	6913.9	6218.5	5603.0	5027.5	4627.9	4420.1	4364.1
15°	8620.4	8508.5	7877.0	7129.7	6286.4	5379.2	4504.0	3812.6	3393.0	3221.1	3221.1
17.5°	8624.4	8356.6	7641.2	6682.1	5547.1	4320.2	3357.0	2789.5	2557.7	2533.8	2553.7
20°	8544.4	8244.7	7393.4	6154.5	4619.9	3245.1	2437.8	2206.0	2206.0	2238.0	2250.0
22.5°	8472.5	8076.8	7001.8	5503.1	3676.7	2349.9	1982.2	1914.3	1990.2	2046.2	2070.2
25°	8372.6	7937.0	6602.1	4827.7	2797.5	1894.3	1722.5	1738.5	1810.4	1910.3	1902.3
27.5°	8228.7	7693.2	6126.6	4044.4	2082.2	1634.6	1590.6	1598.6	1674.5	1718.5	1710.5
30°	8064.8	7445.4	5687.0	3265.1	1650.5	1498.7	1494.7	1514.7	1526.6	1550.6	1546.6
32.5°	7857.0	7117.7	5219.4	2537.7	1486.7	1422.7	1406.8	1394.8	1406.8	1402.8	1390.8
35°	7709.2	6941.8	4743.8	1934.3	1394.8	1354.8	1342.8	1322.8	1306.8	1282.9	1278.9
37.5°	7669.2	6766.0	4244.2	1578.6	1322.8	1302.8	1262.9	1226.9	1206.9	1194.9	1186.9
40°	7645.2	6650.1	3756.7	1386.8	1262.9	1242.9	1194.9	1147.0	1127.0	1115.0	1119.0
42.5°	7729.1	6586.2	3261.1	1290.9	1210.9	1175.0	1123.0	1067.1	1063.1	1055.1	1067.1
45°	8024.9	6666.1	2801.5	1222.9	1159.0	1099.0	1031.1	1003.1	999.1	991.1	999.1
47.5°	8696.3	6865.9	2409.9	1179.0	1103.0	1051.1	979.1	939.2	935.2	931.2	931.2
50°	9623.5	7481.4	2082.2	1127.0	1067.1	995.1	927.2	883.2	875.2	859.2	859.2
52.5°	11078.2	8516.4	1886.3	1099.0	1003.1	943.2	871.2	823.3	803.3	787.3	787.3
55°	12716.7	9799.3	1850.4	1051.1	935.2	879.2	815.3	767.3	747.3	727.4	719.4
57.5°	14583.1	11497.8	2106.1	1019.1	887.2	815.3	743.3	699.4	683.4	663.4	655.4
60°	16321.5	13192.3	2901.4	971.1	843.3	755.3	683.4	639.4	619.5	599.5	599.5
62.5°	18331.7	15290.4	4248.2	971.1	803.3	691.4	619.5	587.5	575.5	555.5	551.5
65°	20709.6	17460.5	5231.4	1031.1	791.3	635.4	559.5	527.5	515.5	503.6	499.6
67.5°	22520.0	18707.4	4500.0	1190.9	843.3	587.5	499.6	479.6	471.6	459.6	451.6
70°	22711.9	17948.1	2713.6	1286.9	895.2	539.5	447.6	427.6	427.6	415.6	407.6
72.5°	20989.4	15925.9	1826.4	1147.0	811.3	483.6	395.6	379.7	371.7	363.7	359.7
75°	17564.4	13508.0	1442.7	915.2	623.4	399.6	343.7	327.7	315.7	311.7	303.7
77.5°	11797.5	8780.2	1067.1	715.4	459.6	323.7	287.7	271.8	259.8	255.8	243.8
80°	4532.0	3345.0	687.4	519.5	323.7	255.8	227.8	211.8	203.8	191.8	183.8
82.5°	1334.8	1083.0	383.7	319.7	207.8	175.8	163.9	151.9	139.9	127.9	123.9
85°	551.5	495.6	235.8	167.9	127.9	103.9	95.9	83.9	71.9	63.9	56.0
87.5°	255.8	211.8	107.9	63.9	44.0	24.0	12.0	4.0	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)