

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: P480018

Luminaire Tested: **IFLD-L-SA7E-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480018  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

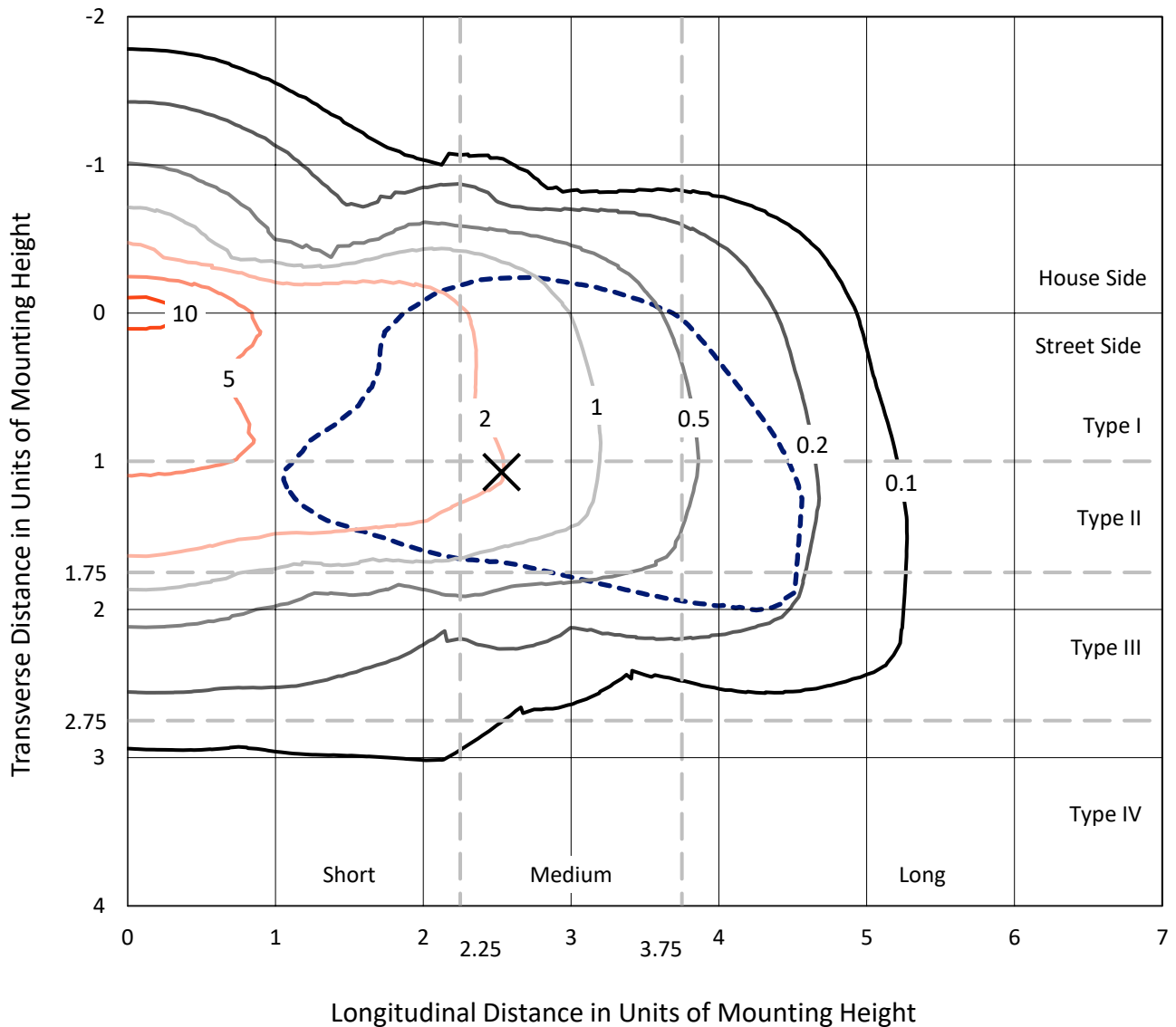
Lumens per Lamp: N/A  
Luminaire Lumens: 47071.4 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

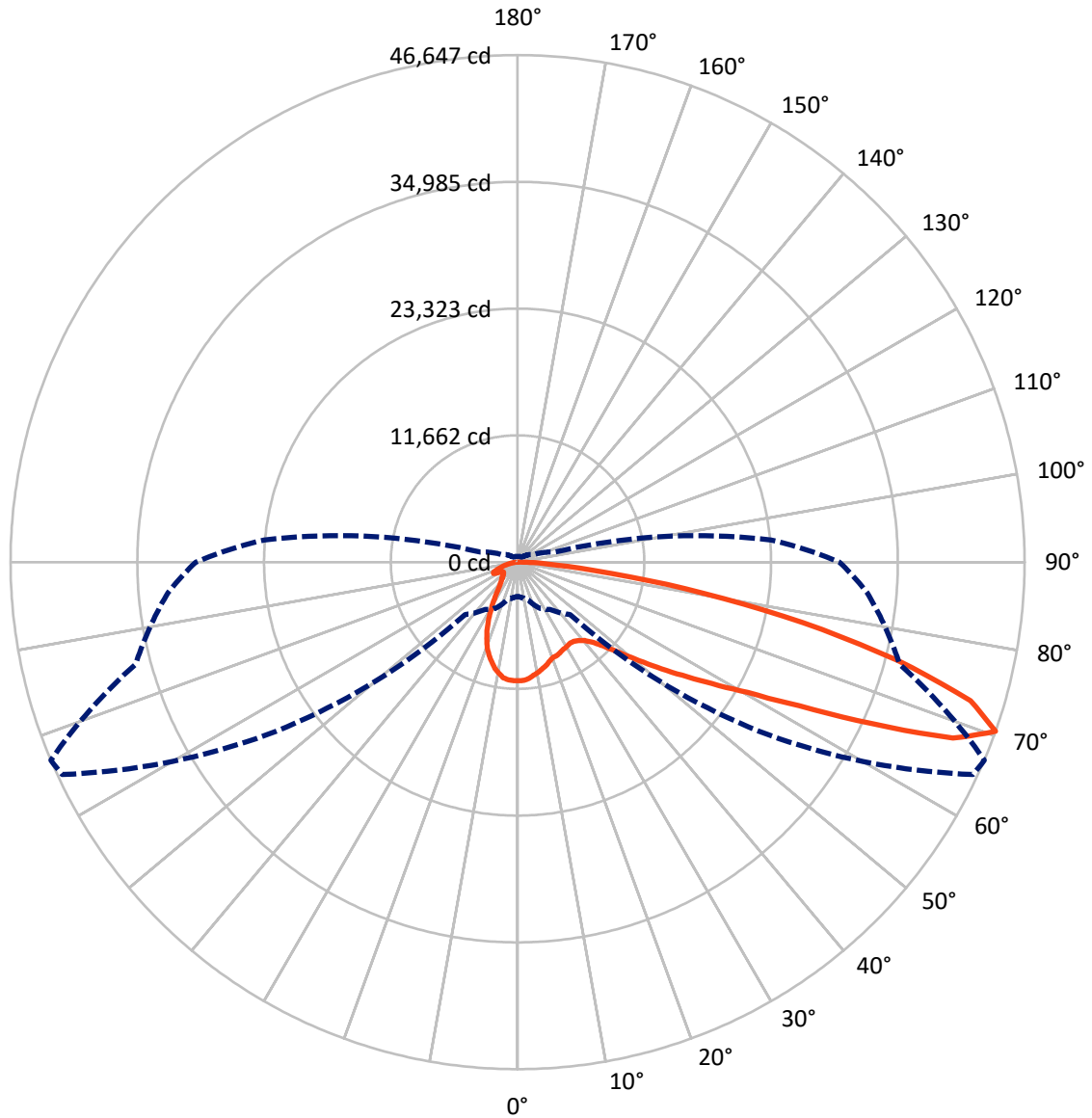
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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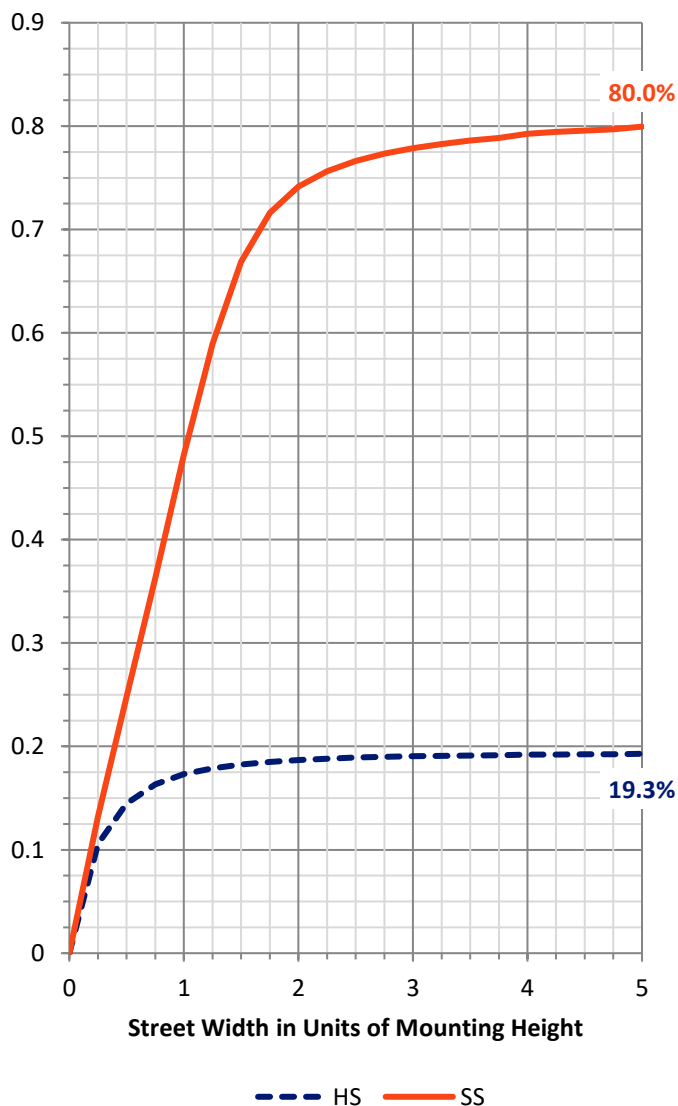
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9167.6	0.0	9167.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	37903.8	0.0	37903.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	47071.4	0.0	47071.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	950.8	2.0
10°-20°	2277.1	4.8
20°-30°	3075.0	6.5
30°-40°	4114.7	8.7
40°-50°	6050.5	12.9
50°-60°	9431.2	20.0
60°-70°	11617.7	24.7
70°-80°	8209.0	17.4
80°-90°	1345.5	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°	47071.4	100.0
0°-180°	47071.4	100.0

**Coefficient of Utilization**

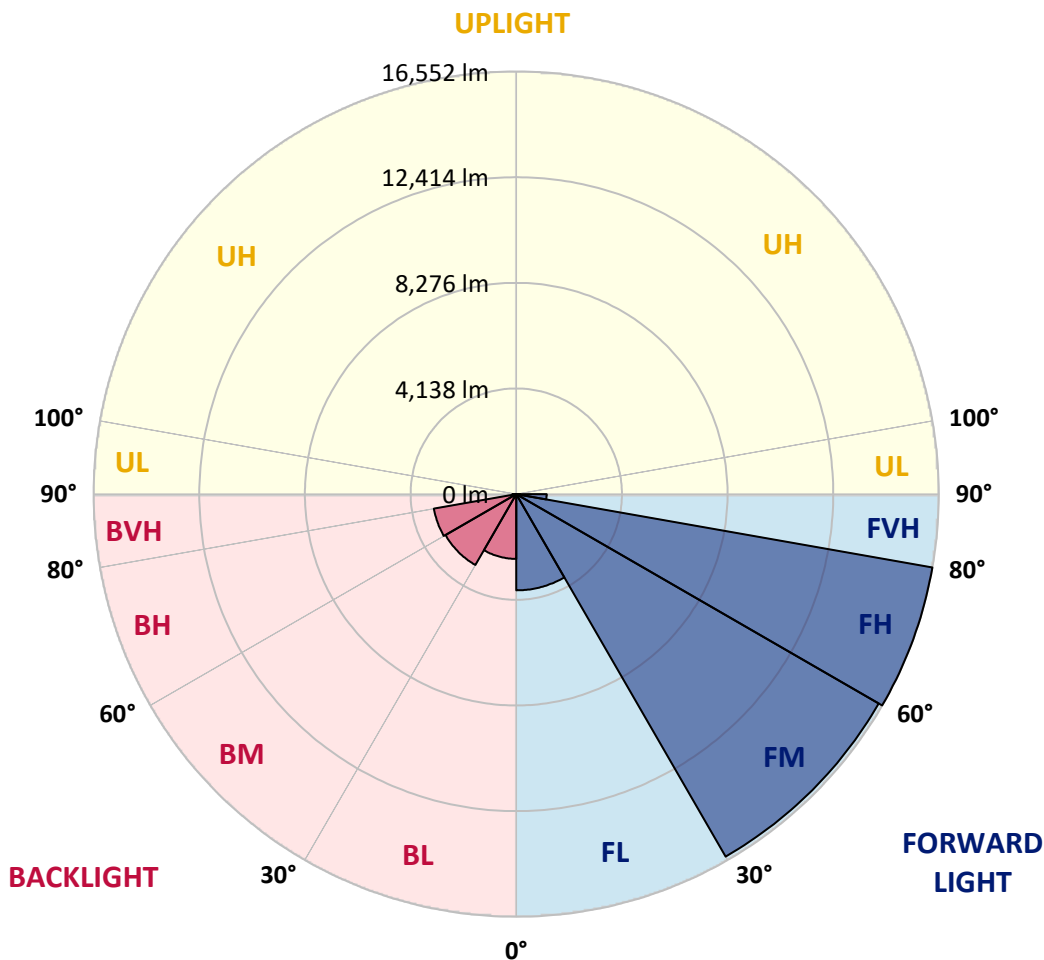


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3767.7	8.0			
FM (30°-60°)	16394.0	34.8			
FH (60°-80°)	16551.9	35.2			G5
FVH (80°-90°)	1190.3	2.5			G5
BL (0°-30°)	2535.2	5.4	B4/5000		
BM (30°-60°)	3202.4	6.8	B3/5000		
BH (60°-80°)	3274.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	155.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9
2.5°	10146.5	10261.1	10302.8	10365.3	10526.9	10646.7	10719.7	10803.1	10902.1	10985.5	11037.6
5°	9437.7	9500.3	9599.3	9667.0	9870.3	10193.4	10412.2	10766.6	10756.2	10886.5	11084.5
7.5°	8749.8	8812.4	8859.3	8994.8	9286.6	9578.4	9979.7	10552.9	10511.3	10813.5	11121.0
10°	8322.5	8275.6	8291.2	8520.5	8749.8	9078.1	9583.6	10167.3	10318.4	10787.5	11225.2
12.5°	7921.2	7869.1	7994.2	8140.1	8421.5	8718.6	9323.1	9849.4	10078.7	10693.6	11272.1
15°	7671.1	7634.6	7790.9	7853.5	8187.0	8541.4	8968.7	9609.7	9859.8	10579.0	11199.1
17.5°	7530.4	7561.6	7619.0	7754.5	7968.1	8270.4	8739.4	9448.1	9557.6	10438.3	11183.5
20°	7556.4	7592.9	7598.1	7655.4	7801.4	8035.9	8515.3	9276.2	9349.1	10412.2	11225.2
22.5°	7764.9	7712.8	7733.6	7697.1	7738.8	7921.2	8343.3	9046.9	9328.3	10193.4	11136.6
25°	8077.6	8004.6	7994.2	7869.1	7790.9	7843.0	8312.1	8989.5	9171.9	10125.6	11131.4
27.5°	8630.0	8520.5	8520.5	8332.9	8015.0	7931.6	8223.5	8895.7	9057.3	10063.1	11011.5
30°	9161.5	9161.5	9166.7	8900.9	8546.6	8134.9	8260.0	8859.3	8963.5	9875.5	10850.0
32.5°	9807.7	9792.1	9766.0	9635.7	9088.6	8473.6	8437.1	8812.4	8864.5	9812.9	10803.1
35°	10438.3	10396.6	10599.8	10485.2	9927.6	9135.5	8619.5	8833.2	8947.9	9719.1	10657.2
37.5°	10912.5	10938.6	11360.7	11433.7	10954.2	9885.9	9135.5	9041.7	9151.1	9854.6	10657.2
40°	11527.5	11631.7	12027.7	12272.7	11980.8	10876.0	9953.6	9390.8	9469.0	10156.9	10886.5
42.5°	12335.2	12423.8	12929.3	13247.2	13163.8	12137.2	10761.4	10120.4	10057.9	10662.4	11230.4
45°	13403.5	13419.2	13929.9	14367.6	14539.6	13455.7	12043.4	11042.8	10990.7	11532.7	11861.0
47.5°	14675.1	14659.5	14977.4	15446.4	15910.2	15029.5	13518.2	12444.7	12257.0	12778.2	12908.5
50°	15905.0	15837.2	15910.2	16509.5	17400.6	16999.4	15310.9	14159.2	13971.6	14258.2	14482.3
52.5°	16582.4	16665.8	16467.8	17259.9	18984.9	19328.8	17687.3	16207.2	16045.7	16186.4	16577.2
55°	16108.2	16280.2	16149.9	16900.3	19678.0	22169.0	20761.9	18578.4	18369.9	18317.8	18958.8
57.5°	14091.4	14404.1	14430.2	15618.4	19438.3	24368.2	25087.3	21376.9	21064.2	20532.6	21194.5
60°	10818.7	11131.4	11371.1	12778.2	17385.0	25681.4	30100.6	25358.3	24326.5	22950.7	23346.8
62.5°	7582.5	7796.1	8035.9	8900.9	13403.5	24910.2	34436.5	30965.7	29063.6	25499.0	25994.1
65°	5524.0	5690.8	5935.7	6446.4	8233.9	20610.8	36448.0	37625.8	35822.7	28740.5	28677.9
67.5°	4158.6	4262.9	4586.0	5404.1	5706.4	12731.3	34363.5	44661.1	43201.9	32341.5	30835.4
70°	3147.6	3236.2	3538.5	4658.9	5331.2	6826.8	27109.3	46229.7	46646.6	36380.3	32284.2
72.5°	2167.9	2266.9	2605.7	3882.4	5075.8	5414.6	17015.0	41998.1	43577.1	38042.7	30731.2
75°	1328.9	1396.6	1594.7	2944.4	5039.4	5294.7	9364.8	34415.6	36088.5	35150.4	26885.2
77.5°	938.0	932.8	969.3	1724.9	4367.1	5326.0	5774.2	25217.6	26843.6	25905.5	18244.9
80°	682.7	687.9	724.4	1031.8	2965.2	5414.6	4549.5	16889.9	17374.6	13507.8	7196.8
82.5°	411.7	432.5	521.1	698.3	1782.3	4888.2	4205.5	9385.6	8781.1	4335.8	1980.3
85°	218.9	218.9	307.5	443.0	948.5	3647.9	4049.2	4466.1	3741.7	1344.5	734.8
87.5°	52.1	52.1	88.6	177.2	380.4	1745.8	2762.0	1777.1	1422.7	453.4	302.3
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°	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9	10896.9
2.5°	11016.7	10954.2	11032.4	10876.0	10751.0	10756.2	10563.4	10552.9	10526.9	10391.4	10438.3
5°	11141.8	11089.7	11001.1	10829.1	10552.9	10276.7	10110.0	9896.3	9807.7	9760.8	9781.7
7.5°	11261.7	11167.9	10912.5	10672.8	10245.5	9724.3	9422.1	9135.5	8770.7	8729.0	8656.0
10°	11292.9	11094.9	10766.6	10255.9	9687.9	9109.4	8421.5	7890.0	7608.5	7389.7	7306.3
12.5°	11246.0	11162.7	10532.1	9875.5	9015.6	8108.8	7306.3	6555.9	6034.7	5763.7	5690.8
15°	11240.8	11094.9	10271.5	9297.0	8197.4	7014.4	5873.2	4971.6	4424.4	4200.3	4200.3
17.5°	11246.0	10896.9	9964.1	8713.3	7233.3	5633.4	4377.5	3637.5	3335.3	3304.0	3330.0
20°	11141.8	10751.0	9641.0	8025.4	6024.3	4231.6	3178.9	2876.7	2876.7	2918.3	2934.0
22.5°	11048.0	10532.1	9130.2	7176.0	4794.4	3064.3	2584.8	2496.2	2595.2	2668.2	2699.5
25°	10917.7	10349.7	8609.1	6295.3	3647.9	2470.2	2246.1	2266.9	2360.7	2491.0	2480.6
27.5°	10730.1	10031.8	7989.0	5273.9	2715.1	2131.4	2074.1	2084.5	2183.5	2240.9	2230.4
30°	10516.5	9708.7	7415.7	4257.7	2152.3	1954.2	1949.0	1975.1	1990.7	2022.0	2016.8
32.5°	10245.5	9281.4	6806.0	3309.2	1938.6	1855.2	1834.4	1818.8	1834.4	1829.2	1813.5
35°	10052.7	9052.1	6185.8	2522.3	1818.8	1766.6	1751.0	1724.9	1704.1	1672.8	1667.6
37.5°	10000.5	8822.8	5534.4	2058.5	1724.9	1698.9	1646.8	1599.9	1573.8	1558.2	1547.8
40°	9969.3	8671.7	4898.6	1808.3	1646.8	1620.7	1558.2	1495.7	1469.6	1454.0	1459.2
42.5°	10078.7	8588.3	4252.4	1683.3	1579.0	1532.1	1464.4	1391.4	1386.2	1375.8	1391.4
45°	10464.3	8692.5	3653.1	1594.7	1511.3	1433.1	1344.5	1308.0	1302.8	1292.4	1302.8
47.5°	11339.9	8953.1	3142.4	1537.3	1438.3	1370.6	1276.8	1224.7	1219.5	1214.2	1214.2
50°	12548.9	9755.6	2715.1	1469.6	1391.4	1297.6	1209.0	1151.7	1141.3	1120.4	1120.4
52.5°	14445.8	11105.3	2459.7	1433.1	1308.0	1229.9	1136.1	1073.5	1047.5	1026.6	1026.6
55°	16582.4	12778.2	2412.8	1370.6	1219.5	1146.5	1063.1	1000.6	974.5	948.5	938.0
57.5°	19016.1	14993.0	2746.4	1328.9	1156.9	1063.1	969.3	912.0	891.1	865.1	854.7
60°	21283.1	17202.6	3783.4	1266.4	1099.6	984.9	891.1	833.8	807.8	781.7	781.7
62.5°	23904.4	19938.5	5539.6	1266.4	1047.5	901.6	807.8	766.1	750.4	724.4	719.2
65°	27005.1	22768.3	6821.6	1344.5	1031.8	828.6	729.6	687.9	672.3	656.6	651.4
67.5°	29365.8	24394.2	5868.0	1553.0	1099.6	766.1	651.4	625.4	614.9	599.3	588.9
70°	29616.0	23404.1	3538.5	1678.0	1167.3	703.5	583.7	557.6	557.6	542.0	531.6
72.5°	27369.9	20767.1	2381.6	1495.7	1057.9	630.6	515.9	495.1	484.7	474.2	469.0
75°	22903.8	17614.3	1881.3	1193.4	813.0	521.1	448.2	427.3	411.7	406.5	396.1
77.5°	15383.8	11449.3	1391.4	932.8	599.3	422.1	375.2	354.4	338.7	333.5	317.9
80°	5909.6	4361.9	896.3	677.5	422.1	333.5	297.0	276.2	265.8	250.1	239.7
82.5°	1740.6	1412.3	500.3	416.9	271.0	229.3	213.7	198.0	182.4	166.8	161.6
85°	719.2	646.2	307.5	218.9	166.8	135.5	125.1	109.4	93.8	83.4	73.0
87.5°	333.5	276.2	140.7	83.4	57.3	31.3	15.6	5.2	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)