

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: P484023

Luminaire Tested: **IFLD-S-SA6C-740-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484023  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-740-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (96) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

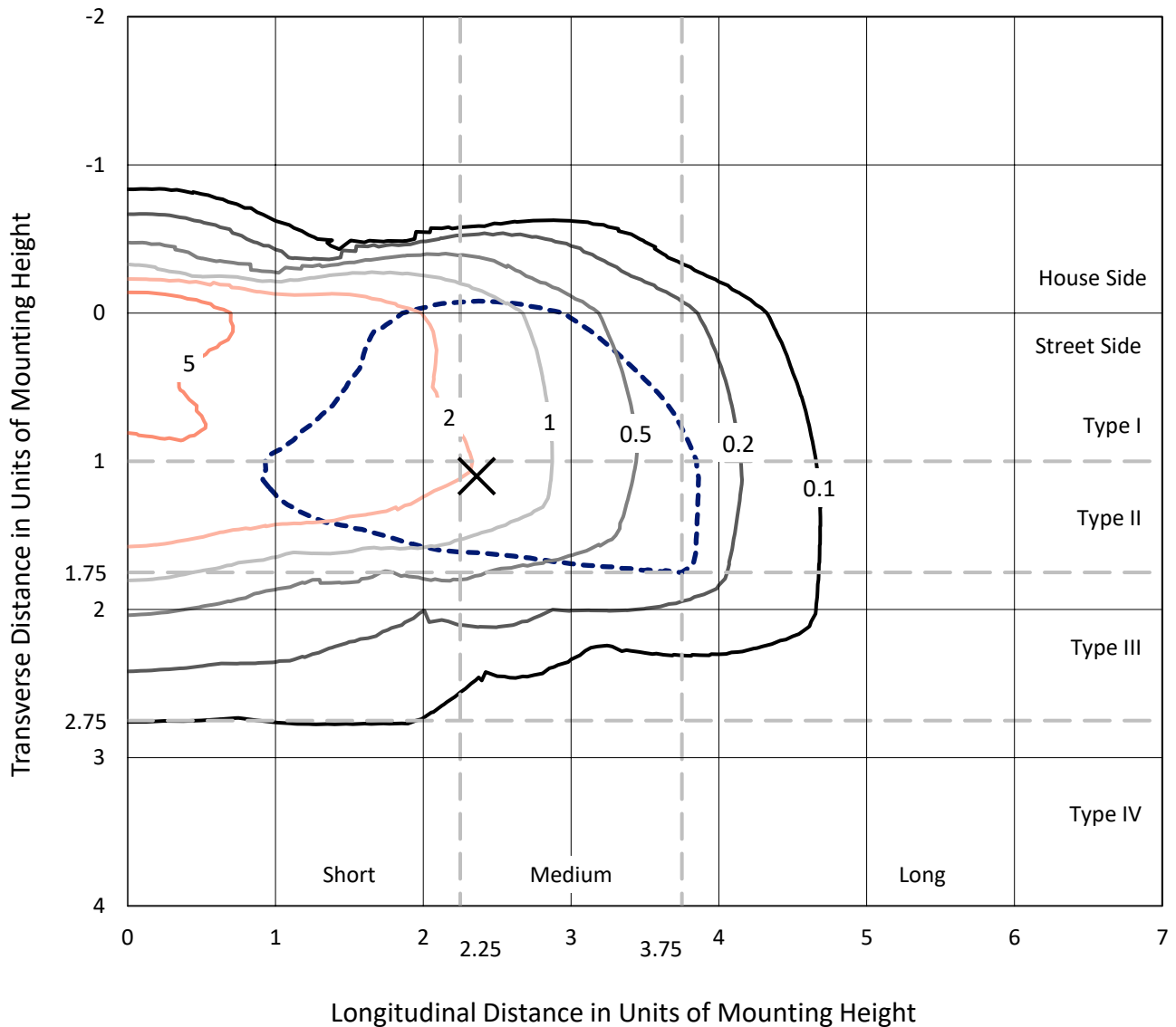
Lumens per Lamp: N/A  
Luminaire Lumens: 34199.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

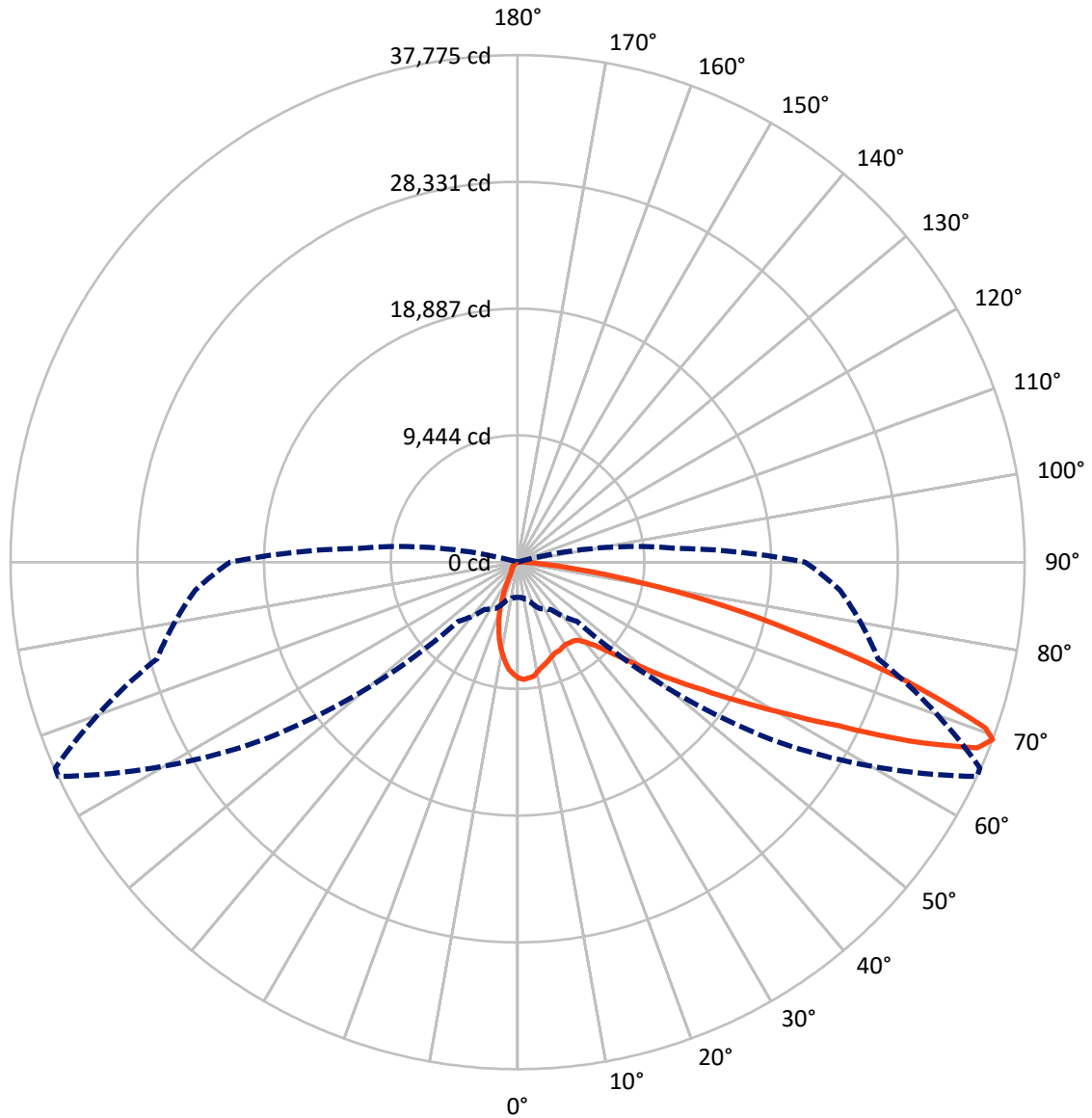
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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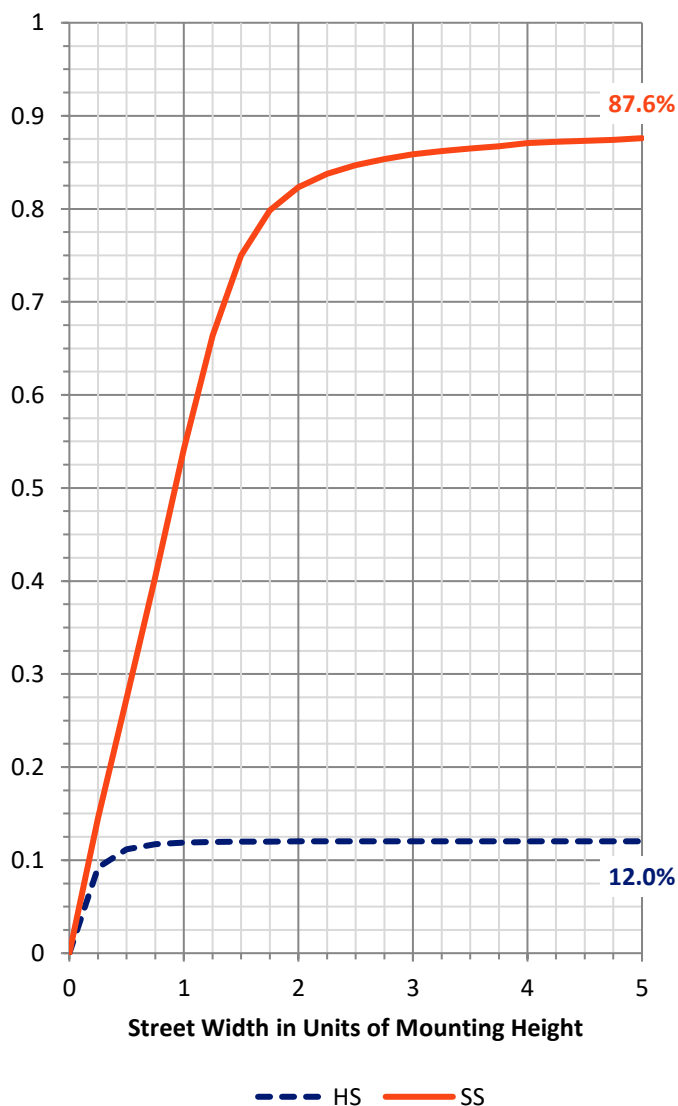
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4148.6	0.0	4148.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	30050.7	0.0	30050.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	34199.3	0.0	34199.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.6	2.1
10°-20°	1543.8	4.5
20°-30°	2149.4	6.3
30°-40°	3045.9	8.9
40°-50°	4800.2	14.0
50°-60°	7789.0	22.8
60°-70°	8698.7	25.4
70°-80°	4898.4	14.3
80°-90°	568.4	1.7
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°	34199.3	100.0
0°-180°	34199.3	100.0

**Coefficient of Utilization**



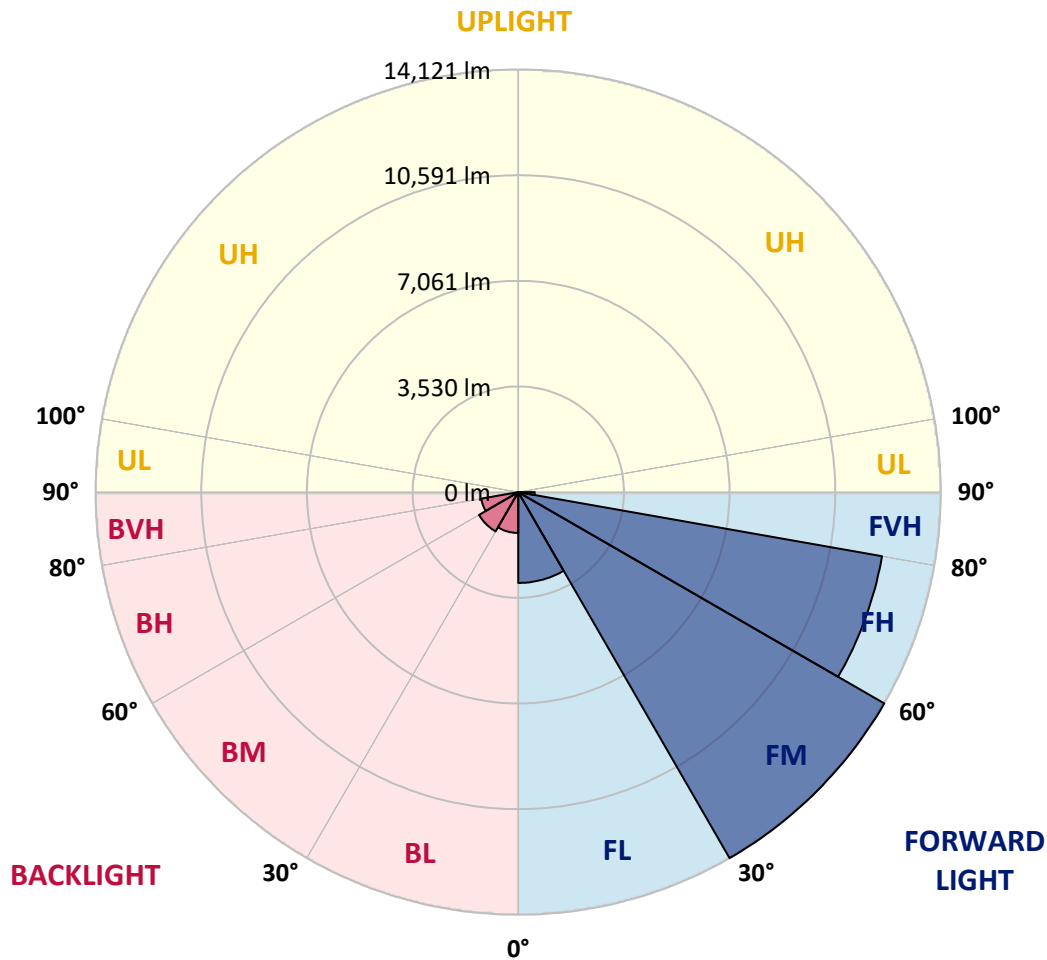
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3034.9	8.9			
FM (30°-60°)	14121.2	41.3			
FH (60°-80°)	12341.9	36.1			G5
FVH (80°-90°)	552.7	1.6			G4/750
BL (0°-30°)	1363.9	4.0	B3/2500		
BM (30°-60°)	1513.8	4.4	B2/2500		
BH (60°-80°)	1255.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4
2.5°	8304.1	8368.7	8387.2	8451.7	8484.0	8622.4	8700.9	8747.0	8723.9	8774.7	8779.3
5°	7713.6	7676.7	7773.6	7842.8	7990.4	8230.3	8474.8	8664.0	8751.6	8834.7	8820.8
7.5°	7081.6	7063.1	7160.0	7316.9	7450.6	7741.3	8133.4	8599.4	8580.9	8783.9	8843.9
10°	6647.9	6666.4	6698.7	6855.5	7053.9	7349.1	7838.2	8271.8	8368.7	8797.8	8917.7
12.5°	6251.2	6283.5	6343.4	6504.9	6735.6	7040.0	7515.2	8022.7	8170.3	8719.3	8959.2
15°	6122.0	6048.2	6168.1	6288.1	6528.0	6800.2	7201.5	7833.6	7898.1	8627.1	9028.4
17.5°	6015.9	5969.7	6025.1	6122.0	6375.7	6597.2	6975.5	7630.6	7750.5	8590.2	9019.2
20°	6048.2	6006.6	6029.7	6103.5	6218.9	6426.5	6777.1	7436.8	7566.0	8419.5	9005.4
22.5°	6140.4	6172.7	6131.2	6149.7	6186.6	6292.7	6671.0	7298.4	7409.1	8387.2	9083.8
25°	6555.6	6500.3	6444.9	6421.9	6205.0	6251.2	6638.7	7289.2	7367.6	8271.8	9019.2
27.5°	6989.3	6943.2	6920.1	6786.3	6491.1	6352.7	6643.3	7160.0	7266.1	8225.7	8940.8
30°	7515.2	7575.2	7482.9	7321.5	6910.9	6569.5	6694.0	7095.4	7243.0	8050.4	8890.0
32.5°	8068.8	8101.1	8147.3	8027.3	7496.8	6897.0	6846.3	7155.4	7164.6	8050.4	8774.7
35°	8696.3	8650.1	8770.1	8779.3	8313.3	7478.3	7136.9	7196.9	7293.8	8013.5	8733.2
37.5°	9236.0	9314.5	9452.9	9674.3	9194.5	8299.5	7589.0	7390.7	7432.2	8184.2	8765.5
40°	9826.5	9905.0	10218.7	10440.1	10167.9	9222.2	8276.4	7842.8	7875.1	8437.9	8931.5
42.5°	10477.0	10629.3	11003.0	11390.5	11316.7	10394.0	9162.2	8507.1	8493.3	9069.9	9272.9
45°	11358.2	11561.2	11967.2	12414.7	12479.2	11736.5	10343.2	9499.0	9545.1	9895.7	9978.8
47.5°	12585.4	12576.1	12972.9	13471.1	13844.8	13129.7	11754.9	10832.3	10827.6	11201.3	11026.0
50°	13771.0	13775.6	13881.7	14458.4	15427.2	15062.7	13503.4	12603.8	12553.1	12737.6	12456.2
52.5°	14320.0	14255.4	14177.0	14873.6	16645.1	17498.6	15717.9	14610.6	14569.1	14458.4	14384.6
55°	13743.3	13766.4	13761.8	14486.1	17286.4	20068.3	18559.7	16820.5	16751.3	16405.2	16506.7
57.5°	11893.3	11819.5	11981.0	13111.3	16552.9	21821.4	22624.1	19606.9	19427.0	18278.3	18047.6
60°	8853.1	8876.2	9010.0	10343.2	14730.6	22190.5	26513.2	22877.8	22102.8	19597.7	19279.4
62.5°	6182.0	6135.8	6186.6	6933.9	10532.4	20714.2	29142.8	26854.6	26107.2	21097.1	20912.5
65°	4424.3	4364.3	4567.3	5024.0	6325.0	15837.8	29516.5	32150.8	31481.8	23491.4	23048.5
67.5°	3183.2	3174.0	3409.3	4239.7	4493.5	9120.7	26748.5	36948.7	36542.7	26333.3	24349.5
69°	2634.3	2638.9	2864.9	3796.8	4290.5	6228.1	23016.3	37774.5	37700.7	27800.3	24105.0
70°	2297.5	2315.9	2578.9	3533.9	4207.4	5120.9	19842.2	36962.6	36888.7	28086.4	23297.7
72.5°	1416.3	1430.2	1776.2	2832.6	3999.8	4179.7	11865.7	30240.8	30494.6	26776.2	20072.9
75°	678.2	682.8	931.9	2048.3	3856.8	3962.9	6357.3	22315.0	22850.2	21618.4	15685.6
77.5°	359.8	359.8	447.5	1088.8	3123.3	3727.6	3773.8	15740.9	16183.8	13669.5	8917.7
80°	179.9	184.5	272.2	567.4	1937.6	3653.8	2948.0	9388.3	9628.2	5577.6	2777.3
82.5°	69.2	73.8	129.2	341.4	1005.7	3086.4	2588.1	4618.0	4558.0	1305.6	678.2
85°	9.2	9.2	46.1	203.0	429.0	1361.0	2136.0	1928.4	1863.8	286.0	327.6
87.5°	0.0	0.0	9.2	60.0	129.2	396.8	825.8	530.5	590.5	78.4	161.5
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°	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4	8622.4
2.5°	8756.2	8659.4	8511.7	8368.7	8216.5	8031.9	7828.9	7755.1	7625.9	7616.7	7690.5
5°	8747.0	8590.2	8331.8	8027.3	7593.7	7266.1	6910.9	6652.5	6454.1	6325.0	6357.3
7.5°	8793.1	8604.0	8156.5	7501.4	6943.2	6292.7	5743.7	5365.4	5019.4	4848.7	4830.2
10°	8719.3	8465.6	7810.5	6892.4	6071.2	5162.4	4359.7	3852.2	3335.5	3146.3	3155.6
12.5°	8760.8	8405.6	7436.8	6265.0	5134.7	3953.7	2994.1	2302.1	1817.7	1660.8	1642.4
15°	8788.5	8276.4	7077.0	5513.0	4096.7	2694.2	1734.6	1305.6	1153.3	1125.7	1121.1
17.5°	8682.4	8119.6	6569.5	4770.3	3035.6	1637.8	1153.3	1065.7	1038.0	1019.6	1010.3
20°	8677.8	8027.3	6131.2	4009.0	2025.3	1116.4	996.5	964.2	922.7	908.8	908.8
22.5°	8599.4	7833.6	5605.3	3174.0	1291.8	959.6	895.0	844.3	798.1	779.7	775.1
25°	8576.3	7607.5	5111.6	2385.1	982.7	858.1	793.5	719.7	664.3	636.6	622.8
27.5°	8511.7	7413.7	4613.4	1679.3	858.1	765.8	682.8	604.4	539.8	498.2	493.6
30°	8281.1	7210.7	4059.8	1162.6	779.7	678.2	585.9	493.6	429.0	401.4	392.1
32.5°	8184.2	7021.6	3455.4	895.0	710.5	599.7	493.6	410.6	359.8	332.2	327.6
35°	8068.8	6744.8	2869.5	779.7	645.9	521.3	415.2	346.0	304.5	281.4	281.4
37.5°	8082.7	6523.3	2320.5	705.9	576.7	447.5	355.2	295.3	258.4	235.3	235.3
40°	8041.2	6348.0	1803.8	641.3	512.1	382.9	299.9	249.1	216.8	193.8	189.1
42.5°	8230.3	6301.9	1361.0	585.9	447.5	327.6	258.4	212.2	179.9	152.2	152.2
45°	8548.6	6375.7	1061.1	535.2	382.9	281.4	221.4	175.3	143.0	124.6	119.9
47.5°	9397.5	6666.4	830.4	493.6	327.6	244.5	184.5	143.0	115.3	96.9	92.3
50°	10629.3	7316.9	705.9	433.7	276.8	207.6	152.2	110.7	92.3	73.8	69.2
52.5°	12382.4	8410.2	641.3	382.9	230.7	170.7	119.9	87.7	69.2	55.4	50.7
55°	14292.3	9775.8	581.3	322.9	193.8	138.4	96.9	69.2	50.7	36.9	32.3
57.5°	15782.4	10956.8	530.5	267.6	156.9	110.7	73.8	50.7	36.9	23.1	18.5
60°	17411.0	11787.2	466.0	212.2	129.2	83.0	55.4	36.9	27.7	13.8	13.8
62.5°	19090.2	12760.7	382.9	166.1	101.5	64.6	41.5	27.7	18.5	4.6	4.6
65°	21424.6	13521.9	295.3	129.2	78.4	46.1	32.3	23.1	9.2	0.0	0.0
67.5°	22084.3	13148.2	216.8	101.5	55.4	32.3	23.1	13.8	4.6	0.0	0.0
69°	21424.6	11842.6	189.1	87.7	46.1	27.7	18.5	9.2	4.6	0.0	0.0
70°	20220.5	10827.6	166.1	73.8	41.5	27.7	13.8	9.2	4.6	0.0	0.0
72.5°	16912.7	8304.1	129.2	55.4	32.3	23.1	13.8	9.2	0.0	0.0	0.0
75°	12405.4	5130.1	96.9	41.5	27.7	18.5	13.8	9.2	0.0	0.0	0.0
77.5°	6647.9	1873.0	69.2	27.7	18.5	13.8	13.8	9.2	0.0	0.0	0.0
80°	1822.3	553.6	50.7	18.5	13.8	9.2	9.2	4.6	0.0	0.0	0.0
82.5°	498.2	143.0	32.3	18.5	13.8	9.2	4.6	0.0	0.0	0.0	0.0
85°	267.6	55.4	18.5	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	138.4	18.5	13.8	9.2	9.2	4.6	0.0	0.0	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)