

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: P482188

Luminaire Tested: **IFLD-S-SA6A-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482188  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

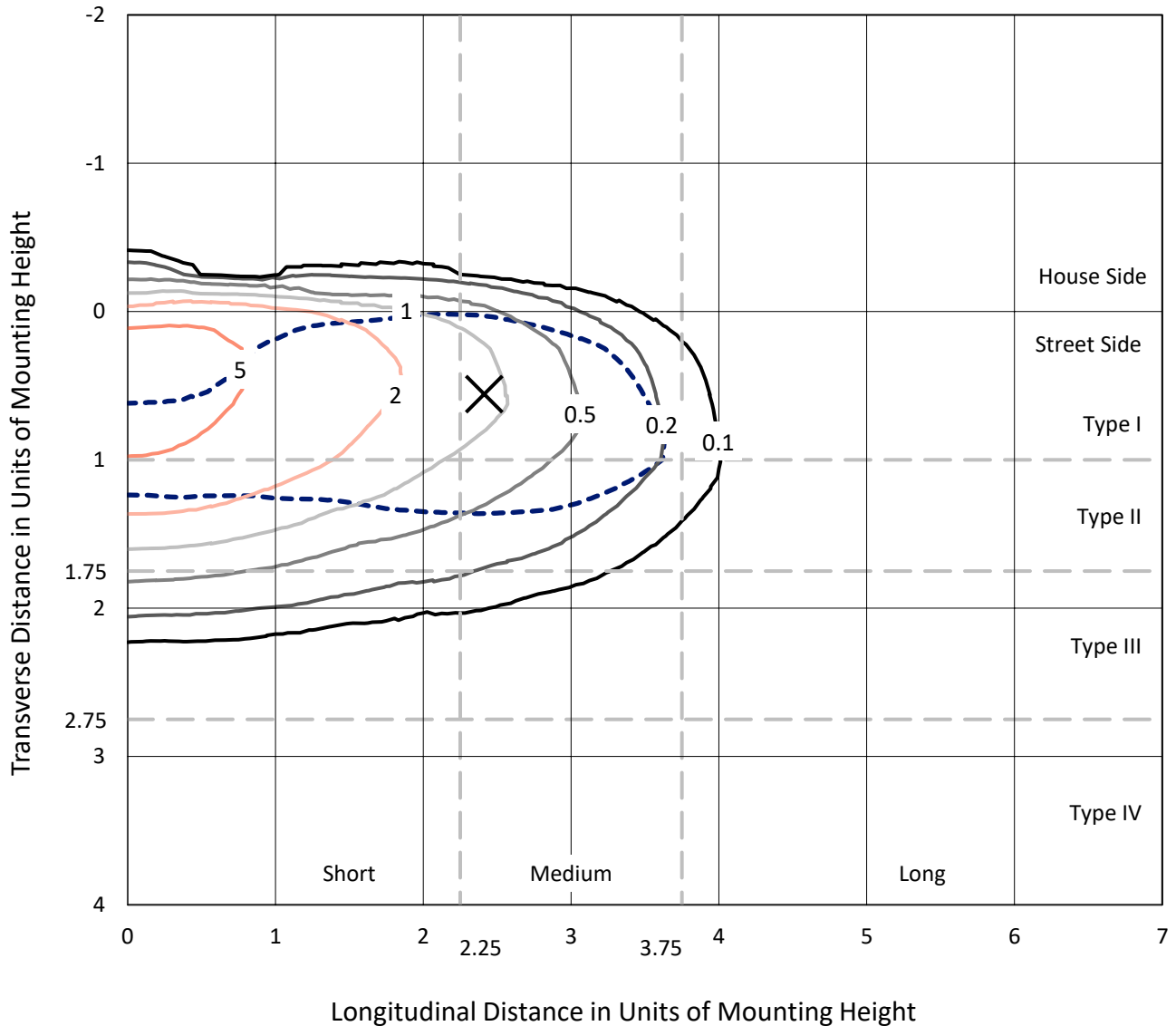
Lumens per Lamp: N/A  
Luminaire Lumens: 15598.6 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 189.6  
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

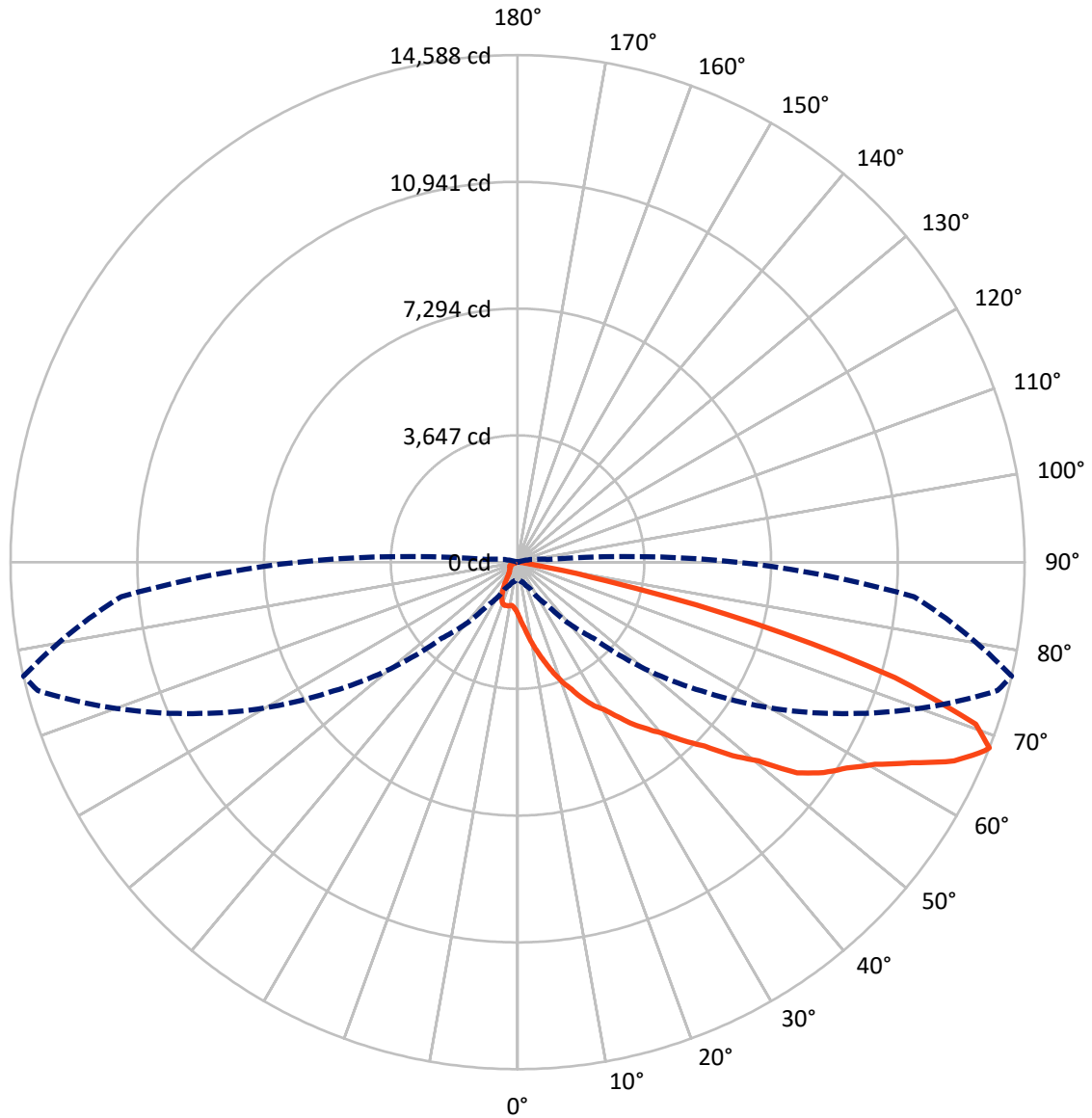
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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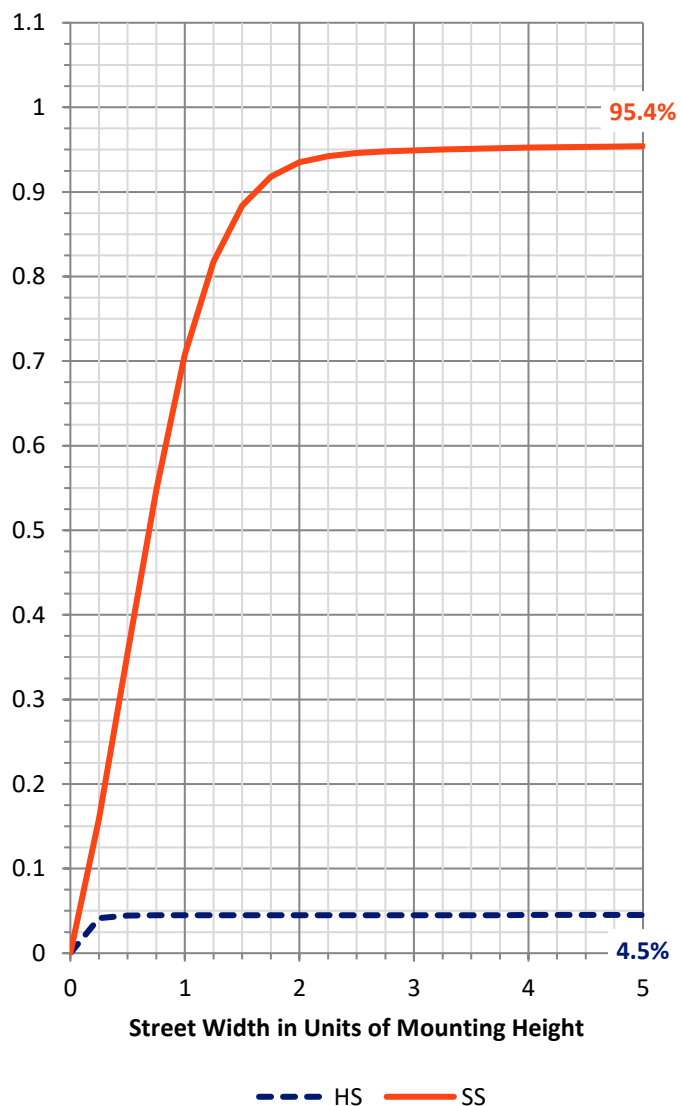
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	707.4	0.0	707.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	14891.2	0.0	14891.2
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	15598.6	0.0	15598.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.5	1.1
10°-20°	643.5	4.1
20°-30°	1247.2	8.0
30°-40°	2174.3	13.9
40°-50°	3184.4	20.4
50°-60°	3741.2	24.0
60°-70°	3159.1	20.3
70°-80°	1224.6	7.9
80°-90°	49.8	0.3
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°	15598.6	100.0
0°-180°	15598.6	100.0

**Coefficient of Utilization**

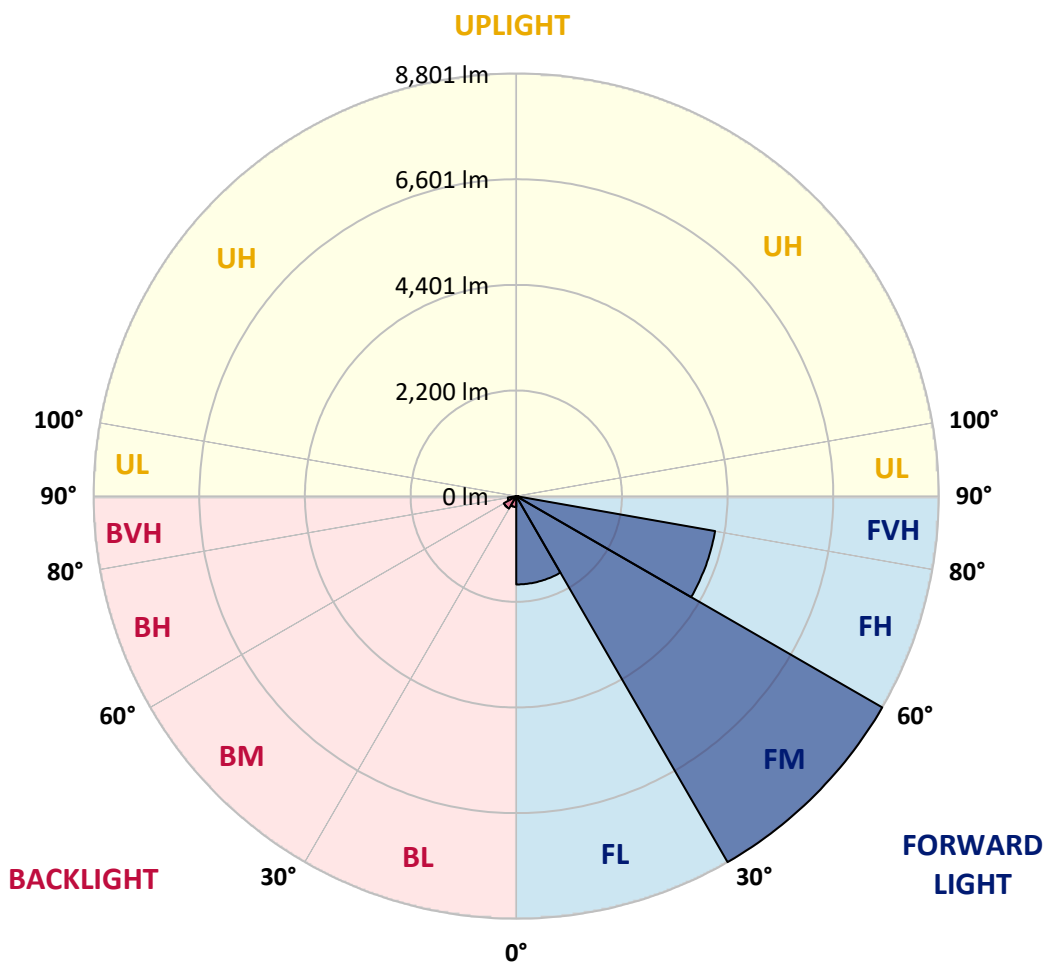


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1839.2	11.8			
FM (30°-60°)	8801.0	56.4			
FH (60°-80°)	4205.1	27.0			G2/5000
FVH (80°-90°)	45.9	0.3			G1/100
BL (0°-30°)	226.0	1.4	B1/500		
BM (30°-60°)	298.9	1.9	B1/1000		
BH (60°-80°)	178.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6
2.5°	2269.4	2226.4	2181.3	2168.4	2084.6	1990.0	1901.9	1815.9	1672.0	1674.1	1575.3
5°	2924.9	2871.1	2834.6	2826.0	2694.9	2531.6	2398.3	2155.5	1917.0	1863.2	1682.7
7.5°	3464.3	3447.1	3393.3	3348.2	3251.5	3051.7	2894.8	2546.6	2183.4	2123.3	1813.8
10°	3790.9	3816.7	3840.4	3782.3	3707.1	3563.1	3348.2	2972.1	2486.5	2411.2	1983.6
12.5°	4139.1	4096.1	4111.1	4158.4	4059.6	4027.3	3760.8	3410.5	2841.0	2697.1	2198.5
15°	4229.3	4246.5	4283.1	4420.6	4487.2	4394.8	4164.9	3765.1	3208.5	3008.7	2398.3
17.5°	4289.5	4280.9	4326.0	4532.3	4633.4	4721.5	4577.5	4160.6	3528.7	3350.4	2647.6
20°	4364.7	4317.4	4416.3	4547.4	4781.6	4966.5	4960.0	4558.1	3864.0	3674.9	2894.8
22.5°	4644.1	4607.6	4687.1	4700.0	4863.3	5121.2	5183.5	4882.6	4207.8	3975.7	3161.3
25°	5159.9	5226.5	5131.9	5050.3	5099.7	5269.5	5314.6	5170.6	4553.8	4341.1	3427.7
27.5°	5914.2	5905.6	5718.6	5613.3	5495.1	5473.6	5505.9	5439.2	4826.8	4674.2	3646.9
30°	6724.4	6653.5	6481.5	6227.9	5967.9	5806.7	5761.6	5692.8	5147.0	4925.6	3864.0
32.5°	7369.1	7407.8	7216.5	6885.6	6453.6	6236.5	6019.5	5944.3	5499.4	5303.9	4113.3
35°	7962.2	7910.7	7758.1	7478.7	7091.9	6741.6	6402.0	6240.8	5922.8	5729.4	4388.4
37.5°	8400.6	8465.1	8175.0	7908.5	7523.8	7233.7	6900.6	6548.2	6359.0	6101.2	4723.6
40°	8815.4	8714.4	8518.8	8273.8	7917.1	7695.7	7476.5	6926.4	6823.2	6490.1	5101.8
42.5°	8742.3	8748.8	8641.3	8443.6	8185.7	8058.9	7983.7	7386.3	7244.4	7031.7	5471.5
45°	8443.6	8469.4	8505.9	8409.2	8430.7	8303.9	8505.9	7914.9	7775.3	7549.6	5897.0
47.5°	8114.8	8157.8	8149.2	8325.4	8525.3	8568.3	9073.3	8501.6	8441.5	8316.8	6485.8
50°	7569.0	7586.1	7751.6	8071.8	8344.8	8793.9	9498.8	9142.1	9234.5	8989.5	7186.4
52.5°	6636.3	6698.6	7124.1	7581.8	8132.0	8907.8	9786.8	10094.1	10328.3	10076.9	7859.1
55°	5456.4	5542.4	5961.5	6818.9	7624.8	8735.9	10049.0	10597.0	11071.9	10691.5	8267.4
57.5°	4390.5	4399.1	4775.2	5660.6	6904.9	8398.5	10182.2	10842.0	11480.2	11175.1	8766.0
60°	3346.1	3311.7	3649.1	4416.3	5692.8	7569.0	9849.1	10966.6	11989.5	11813.3	9365.6
62.5°	2153.3	2099.6	2467.1	3215.0	4446.4	6187.1	9182.9	10968.7	12784.7	12718.1	10369.2
65°	1065.9	1029.4	1345.3	1970.7	3077.4	4732.2	8233.0	10927.9	13756.1	13799.0	11347.0
67.5°	563.1	575.9	677.0	999.3	1775.1	3343.9	6801.7	10448.7	14252.5	14493.2	11583.4
68°	517.9	522.2	601.7	831.7	1540.9	3101.1	6462.2	10309.0	14291.2	14587.7	11452.3
70°	421.2	427.7	455.6	522.2	833.8	2018.0	4985.8	9122.7	13708.8	13979.6	10367.0
72.5°	335.3	354.6	371.8	399.7	490.0	1059.5	3101.1	7109.1	11325.5	11355.6	8069.7
75°	255.7	270.8	305.2	328.8	382.5	582.4	1476.4	4334.6	7431.4	7066.1	4753.7
77.5°	197.7	210.6	225.7	257.9	320.2	393.3	451.3	1839.6	3157.0	2598.2	1343.2
80°	118.2	126.8	176.2	202.0	279.4	266.5	178.4	511.5	640.4	505.0	245.0
82.5°	68.8	75.2	101.0	154.7	195.6	144.0	105.3	159.0	156.9	137.5	81.7
85°	2.1	4.3	55.9	92.4	68.8	38.7	64.5	66.6	55.9	51.6	36.5
87.5°	0.0	2.1	15.0	12.9	15.0	8.6	12.9	17.2	21.5	19.3	15.0
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°	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6	1493.6
2.5°	1508.6	1461.4	1356.1	1276.5	1190.6	1139.0	1087.4	1055.2	1038.0	1027.2	1035.8
5°	1547.3	1448.5	1278.7	1128.3	1029.4	962.8	896.2	861.8	829.5	812.3	823.1
7.5°	1633.3	1485.0	1203.5	1040.1	924.1	820.9	737.1	670.5	631.8	597.4	603.9
10°	1738.6	1506.5	1205.6	988.6	820.9	657.6	539.4	455.6	408.3	378.2	376.1
12.5°	1846.0	1590.3	1214.2	937.0	694.1	494.3	354.6	292.3	264.3	249.3	249.3
15°	2009.4	1665.5	1192.7	842.4	526.5	322.4	242.8	221.4	210.6	197.7	199.9
17.5°	2151.2	1785.9	1182.0	700.6	361.0	232.1	202.0	178.4	167.6	154.7	154.7
20°	2342.5	1861.1	1124.0	541.6	249.3	193.4	163.3	141.8	124.6	113.9	116.0
22.5°	2516.5	1919.1	1020.8	369.6	191.3	152.6	120.3	98.9	83.8	70.9	73.1
25°	2705.7	1977.1	870.4	227.8	135.4	94.6	64.5	47.3	32.2	23.6	23.6
27.5°	2841.0	1994.3	674.8	135.4	81.7	43.0	15.0	2.1	0.0	0.0	0.0
30°	2978.6	2000.8	466.3	73.1	32.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3135.5	1998.6	292.3	38.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	3255.8	1962.1	139.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3438.5	1908.4	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3646.9	1811.6	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3833.9	1712.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4046.7	1590.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4420.6	1538.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4908.4	1497.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5209.3	1377.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5366.2	1252.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5598.3	1192.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5942.1	1197.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6479.4	1257.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6776.0	1197.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6524.5	958.5	40.8	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	6307.5	881.1	40.8	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	5213.6	573.8	38.7	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3797.4	318.1	32.2	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2209.2	159.0	23.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	575.9	79.5	19.3	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
80°	113.9	51.6	17.2	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	53.7	36.5	17.2	12.9	10.7	6.4	2.1	0.0	0.0	0.0	0.0
85°	27.9	17.2	17.2	12.9	12.9	8.6	4.3	0.0	0.0	0.0	0.0
87.5°	12.9	6.4	6.4	6.4	6.4	4.3	2.1	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)