

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: P482985

Luminaire Tested: **IFLD-L-SA8C-827-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482985  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

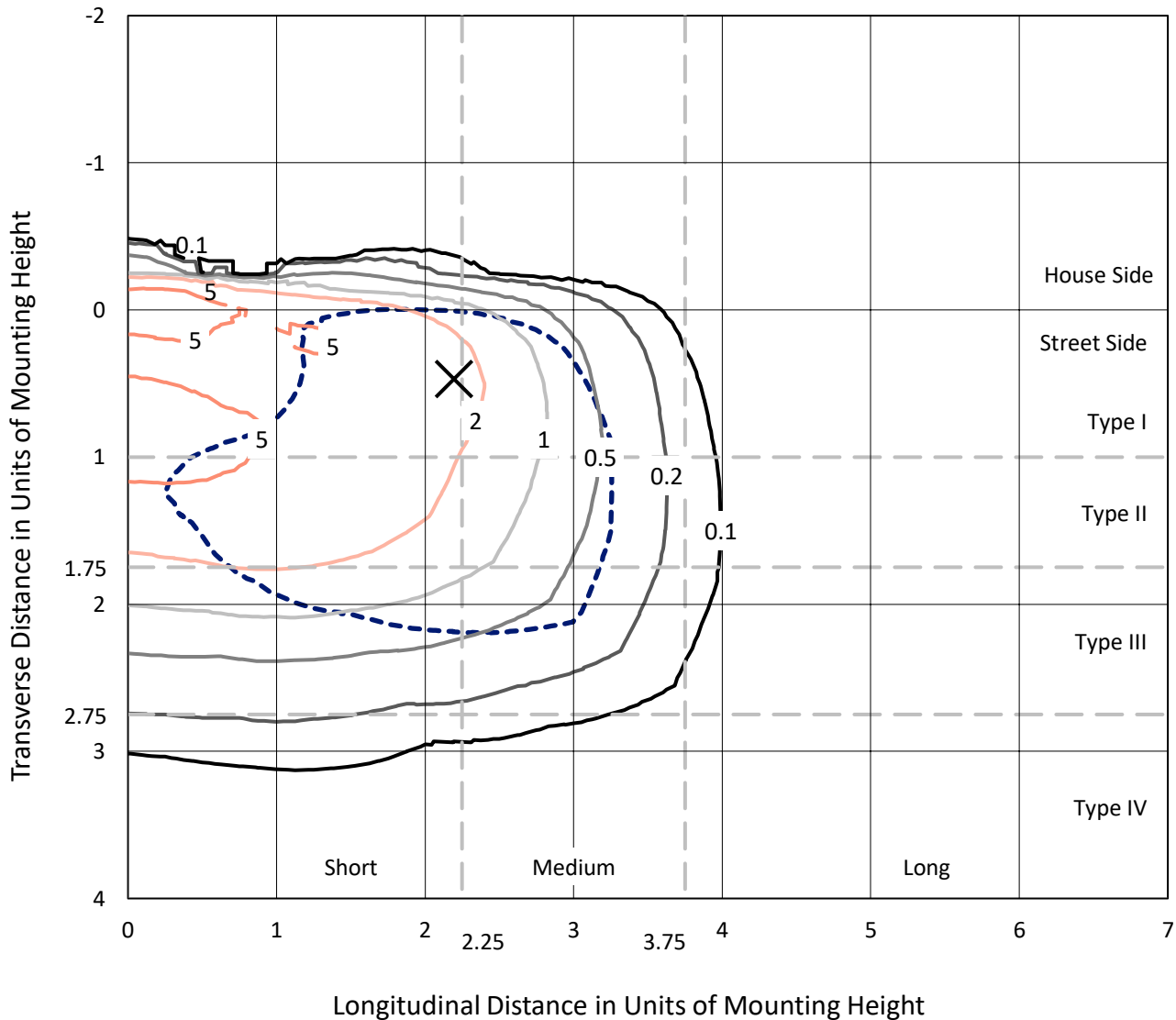
Lumens per Lamp: N/A  
Luminaire Lumens: 26696.6 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

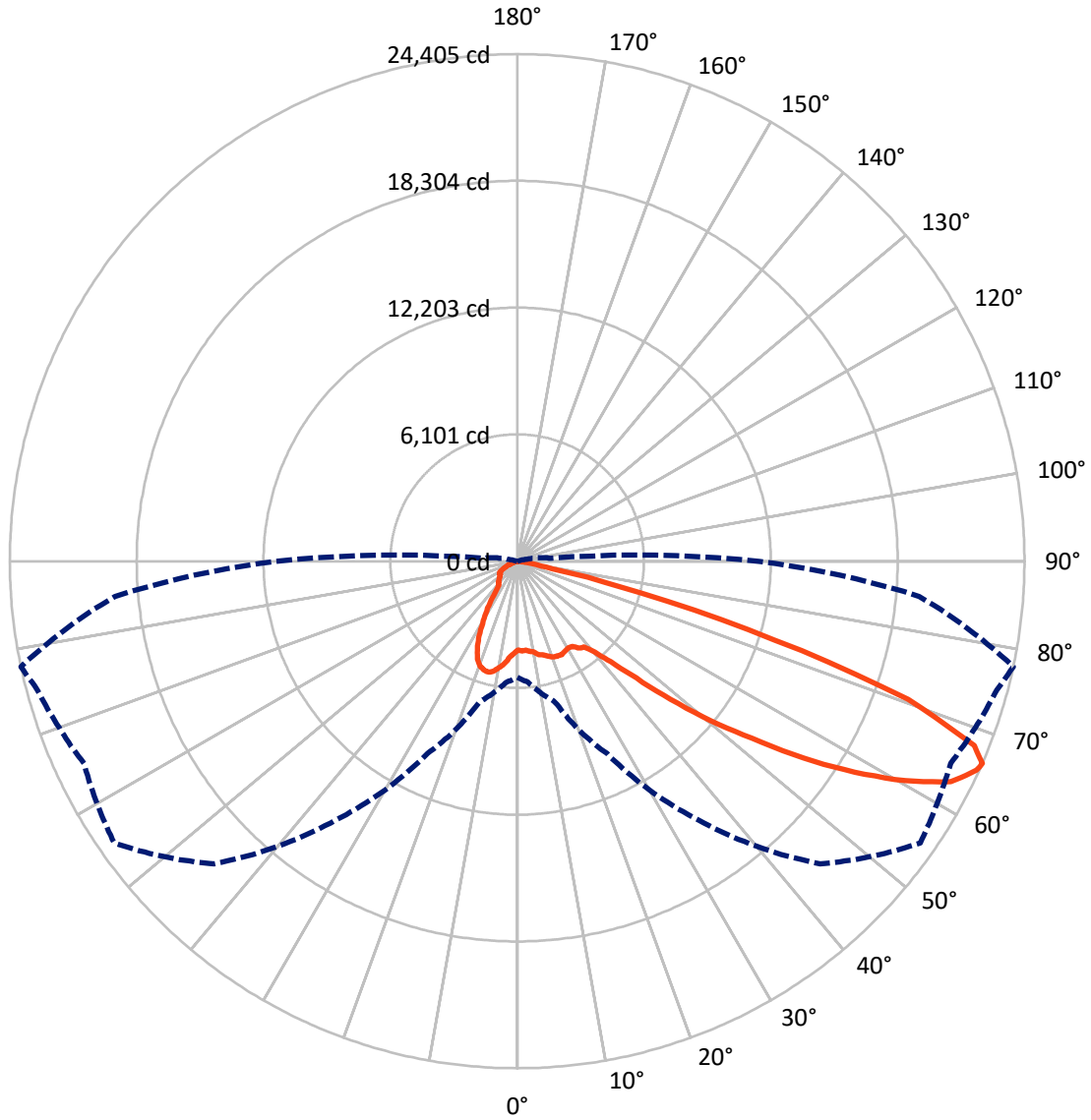
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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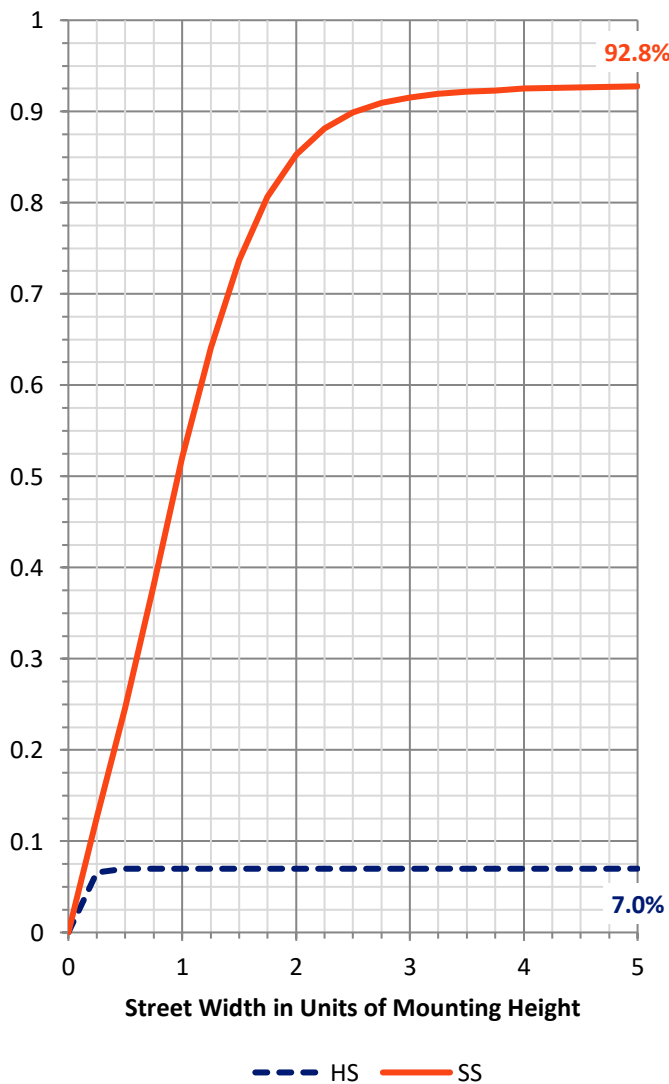
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1876.9	0.0	1876.9
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	24819.7	0.0	24819.7
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	26696.6	0.0	26696.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.2	1.5
10°-20°	883.0	3.3
20°-30°	1262.1	4.7
30°-40°	2160.5	8.1
40°-50°	3899.4	14.6
50°-60°	6668.5	25.0
60°-70°	8207.7	30.7
70°-80°	3103.0	11.6
80°-90°	121.2	0.5
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°	26696.6	100.0
0°-180°	26696.6	100.0

**Coefficient of Utilization**

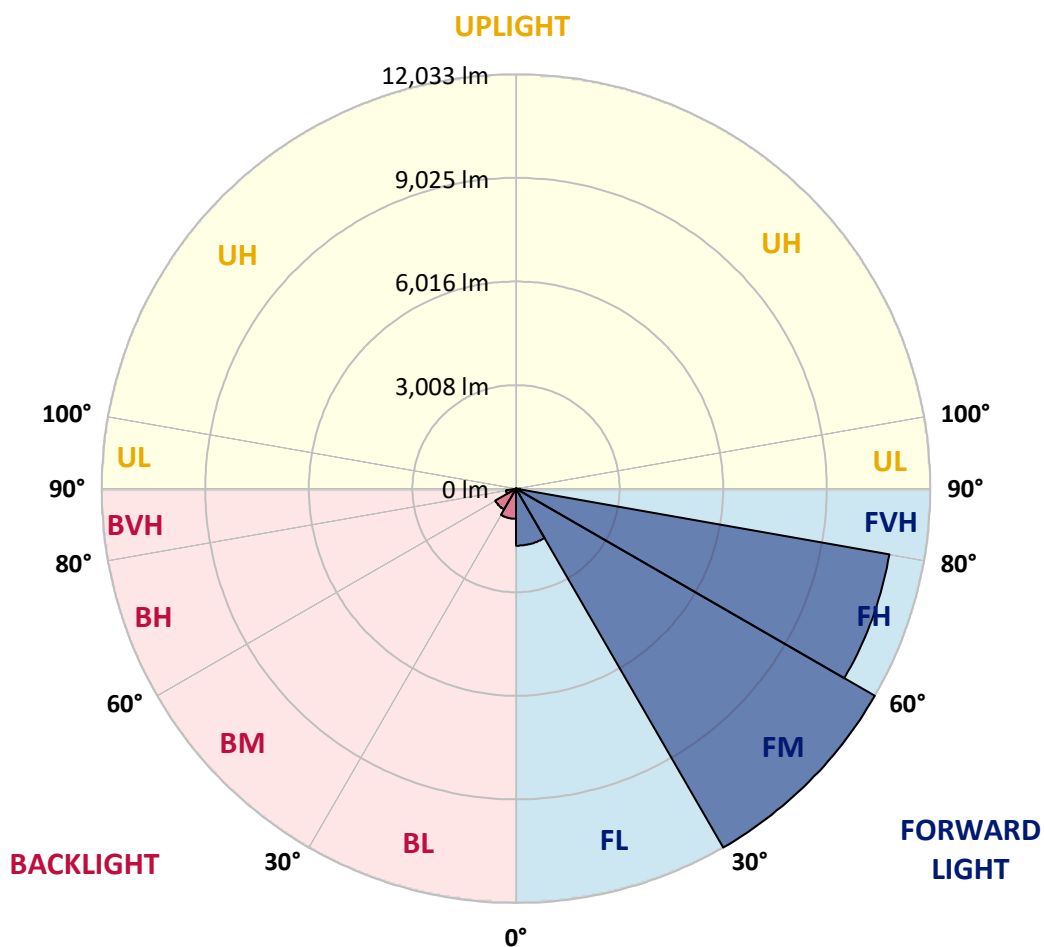


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.3	6.2			
FM (30°-60°)	12032.7	45.1			
FH (60°-80°)	11013.3	41.3			G4/12000
FVH (80°-90°)	116.3	0.4			G2/225
BL (0°-30°)	879.0	3.3	B2/1000		
BM (30°-60°)	695.6	2.6	B1/1000		
BH (60°-80°)	297.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9
2.5°	3933.0	3896.7	3933.0	3985.5	4013.7	4037.9	4122.6	4195.2	4271.9	4324.3	4308.2
5°	3646.6	3715.2	3723.3	3739.4	3783.8	3929.0	3977.4	4102.5	4292.1	4308.2	4380.8
7.5°	3420.7	3400.6	3453.0	3557.9	3670.8	3755.6	3896.7	4114.6	4312.2	4380.8	4522.0
10°	3094.0	3134.3	3190.8	3295.7	3432.8	3642.6	3892.7	4134.7	4417.1	4441.3	4703.5
12.5°	2916.5	2876.2	2964.9	3073.8	3307.8	3501.4	3808.0	4098.4	4481.7	4614.8	4917.3
15°	2771.3	2791.5	2876.2	2948.8	3142.4	3388.5	3747.5	4187.2	4590.6	4683.3	5143.2
17.5°	2710.8	2698.7	2763.2	2835.8	3073.8	3352.2	3723.3	4191.2	4687.4	4808.4	5296.5
20°	2739.0	2763.2	2743.0	2811.6	2960.9	3243.2	3759.6	4267.9	4760.0	4925.4	5461.9
22.5°	3182.7	3150.5	2989.1	2860.0	2868.1	3198.9	3731.3	4316.3	4824.5	4957.7	5574.8
25°	4340.5	4167.0	3767.7	3271.5	2944.7	3077.9	3699.1	4300.1	4812.4	4977.8	5643.4
27.5°	5506.3	5357.0	4965.7	4195.2	3255.3	3029.5	3586.1	4312.2	4751.9	4905.2	5530.5
30°	6736.6	6817.3	6236.4	5320.7	4070.2	3295.7	3513.5	4247.7	4711.6	4840.7	5554.7
32.5°	7999.2	7966.9	7616.0	6623.6	5236.0	3884.6	3630.5	4312.2	4764.0	4889.1	5695.9
35°	8987.5	8874.6	8519.6	7624.1	6200.1	4772.1	4033.9	4618.8	4994.0	5143.2	5897.5
37.5°	9475.6	9524.0	9318.3	8539.7	7257.0	5595.0	4538.1	4618.8	5066.6	5240.0	6224.3
40°	9854.8	10000.0	9923.4	9673.3	8305.8	6522.8	5094.8	4905.2	5433.6	5760.4	6837.4
42.5°	10310.6	10242.0	10693.8	10463.9	9677.3	7692.6	6071.0	5586.9	6300.9	6615.6	7757.2
45°	10552.7	10814.9	11157.7	11452.2	10948.0	9152.9	7345.7	6793.1	7628.1	8027.4	9124.7
47.5°	11173.9	11278.8	11835.4	12206.5	11980.7	10822.9	9282.0	8555.9	9298.1	9927.4	10689.8
50°	11536.9	11395.7	12174.3	12739.0	12868.1	12206.5	11016.6	10451.8	11282.8	12085.5	12154.1
52.5°	11218.2	11621.6	12400.2	13412.7	13771.7	13440.9	13053.7	12807.6	13392.5	14134.7	13804.0
55°	10100.9	10375.2	12271.1	14150.9	15308.6	15155.3	15514.3	15353.0	15941.9	16728.5	15732.2
57.5°	9201.3	9544.2	11210.2	14534.1	16740.6	17192.4	17644.2	17543.4	18253.3	19161.0	17365.9
60°	8640.6	8838.3	10443.7	14437.3	17587.8	19298.1	20318.7	19608.7	20766.5	21460.3	18644.6
62.5°	7668.4	7793.5	9326.4	13154.5	17841.9	20786.6	22517.2	21553.1	22557.5	23404.6	19564.4
65°	6147.6	6486.5	7753.1	11234.4	16163.8	21060.9	23888.7	22755.2	23727.3	24284.0	19842.7
66°	5595.0	5841.1	7002.8	10217.8	15207.8	20605.1	23658.8	23005.3	23896.8	24405.0	19415.1
67.5°	4643.0	4856.8	5780.6	8769.7	13251.3	19600.7	23820.1	22835.8	24025.8	23715.2	18842.3
70°	3073.8	3211.0	3953.2	5929.8	9229.5	16034.7	22093.6	21512.7	21121.4	19955.7	14731.8
72.5°	1436.1	1633.7	2468.7	3594.2	5413.5	11218.2	18015.4	17236.8	14812.4	12948.8	9294.1
75°	649.5	738.2	1355.4	2061.3	2428.4	5812.8	11621.6	10496.2	7373.9	6123.4	4070.2
77.5°	350.9	399.4	661.6	980.2	883.4	2037.1	5752.3	4784.2	2323.5	1702.3	1181.9
80°	270.3	318.7	552.6	560.7	326.7	528.4	2138.0	1480.4	580.9	439.7	282.4
82.5°	141.2	201.7	435.7	363.1	165.4	213.8	661.6	411.5	181.5	145.2	121.0
85°	56.5	88.7	246.1	242.0	96.8	72.6	185.6	125.1	72.6	60.5	56.5
87.5°	4.0	4.0	133.1	92.8	60.5	20.2	28.2	28.2	36.3	32.3	40.3
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°	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9	4275.9
2.5°	4380.8	4429.2	4437.3	4570.4	4598.6	4570.4	4643.0	4630.9	4663.2	4639.0	4594.6
5°	4481.7	4550.2	4683.3	4784.2	4784.2	4703.5	4639.0	4554.3	4429.2	4396.9	4372.7
7.5°	4655.1	4872.9	4994.0	4929.4	4800.3	4497.8	4078.3	3771.7	3513.5	3416.7	3372.3
10°	4961.7	5082.7	5223.9	4961.7	4425.2	3783.8	3077.9	2614.0	2250.9	2170.2	2109.7
12.5°	5159.3	5353.0	5433.6	4784.2	3731.3	2775.3	2008.9	1484.5	1230.3	1036.7	1004.4
15°	5417.5	5639.4	5474.0	4304.2	2940.7	1819.3	1040.7	649.5	528.4	496.2	496.2
17.5°	5595.0	5837.0	5308.6	3707.1	2085.5	968.1	516.3	447.8	439.7	443.7	435.7
20°	5905.6	6050.8	5058.5	3013.3	1246.5	496.2	415.5	399.4	391.3	403.4	395.3
22.5°	6022.6	6155.7	4651.1	2182.3	560.7	330.8	310.6	298.5	306.6	302.5	298.5
25°	6014.5	6083.1	3981.4	1250.5	165.4	129.1	117.0	117.0	108.9	112.9	108.9
27.5°	6075.0	5905.6	3231.1	371.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6107.3	5619.2	2299.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6123.4	5470.0	1480.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6248.5	5171.4	633.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6333.2	4788.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6684.2	4667.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7140.0	4441.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7773.3	4106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8612.4	3908.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9237.6	3598.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10032.3	3412.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10976.2	3420.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11835.4	3364.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12275.1	2876.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12182.3	2327.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11859.6	1827.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11637.8	1617.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10964.1	1294.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8725.3	887.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5550.6	544.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2557.5	250.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	802.7	153.3	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	209.8	96.8	32.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.9	68.6	28.2	12.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.6	28.2	12.1	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.5	16.1	8.1	8.1	4.0	0.0	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)