

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: P481620

Luminaire Tested: **IFLD-L-SA8C-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481620  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

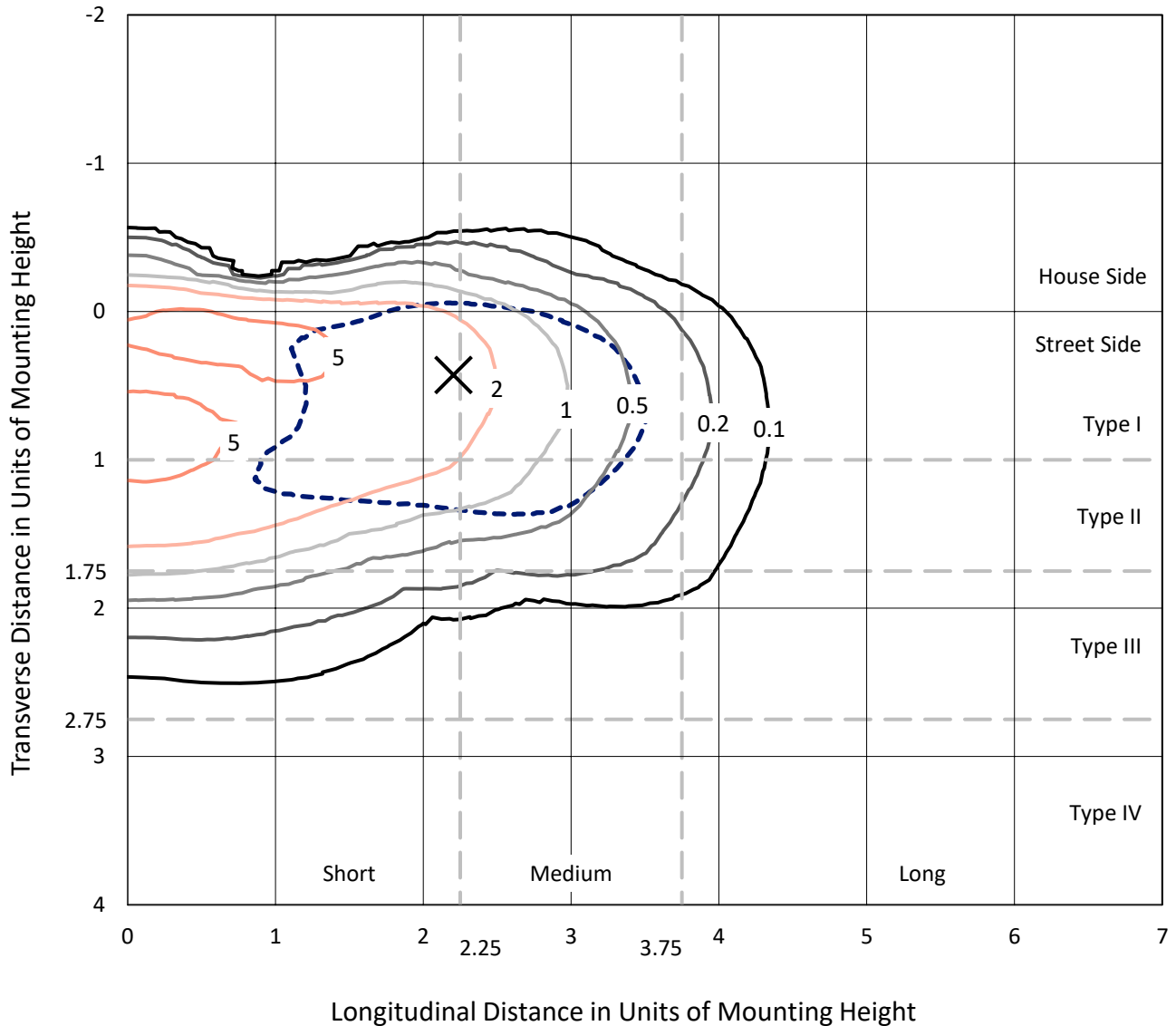
Lumens per Lamp: N/A  
Luminaire Lumens: 33223.3 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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

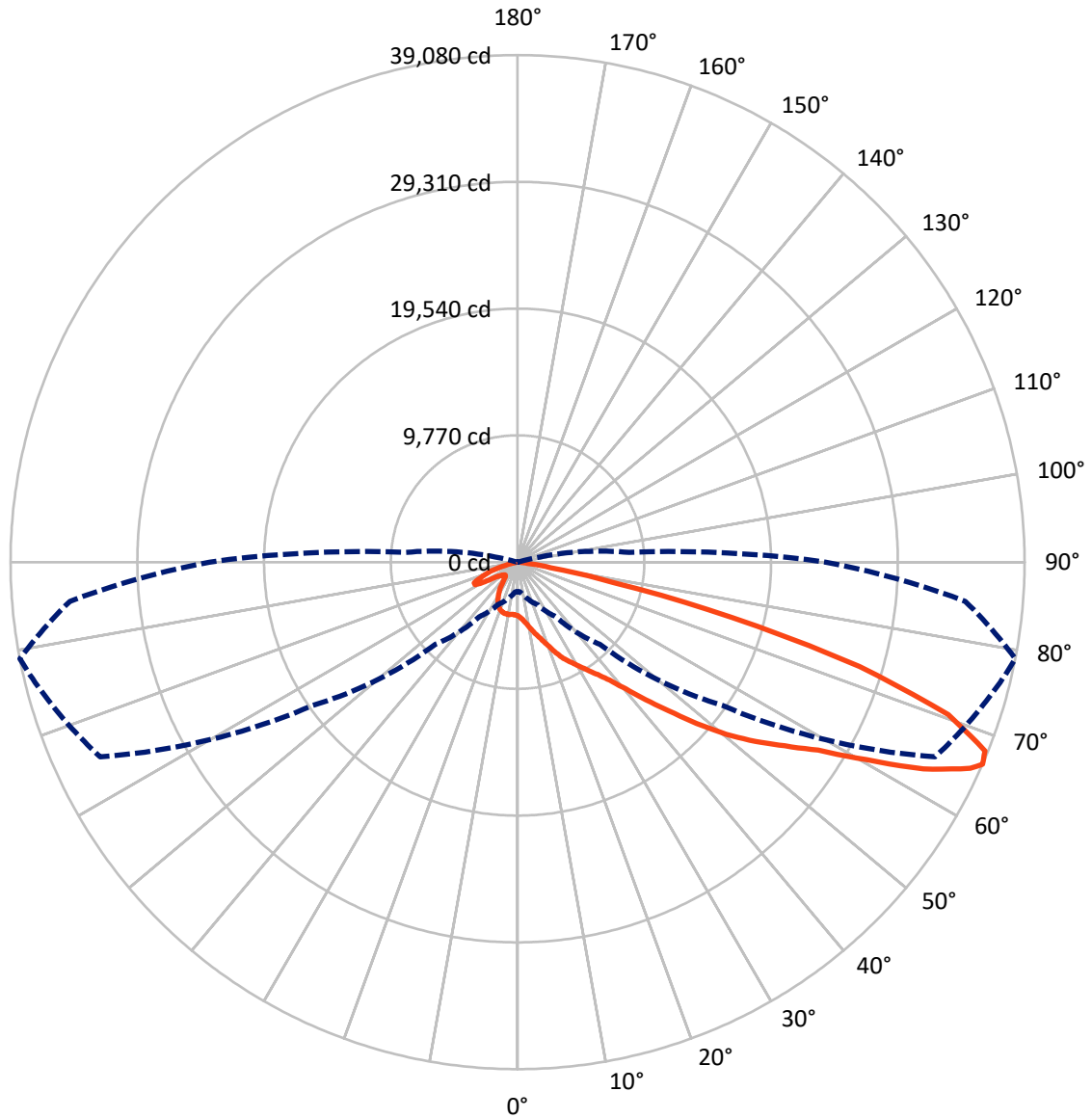
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-L-SA8C-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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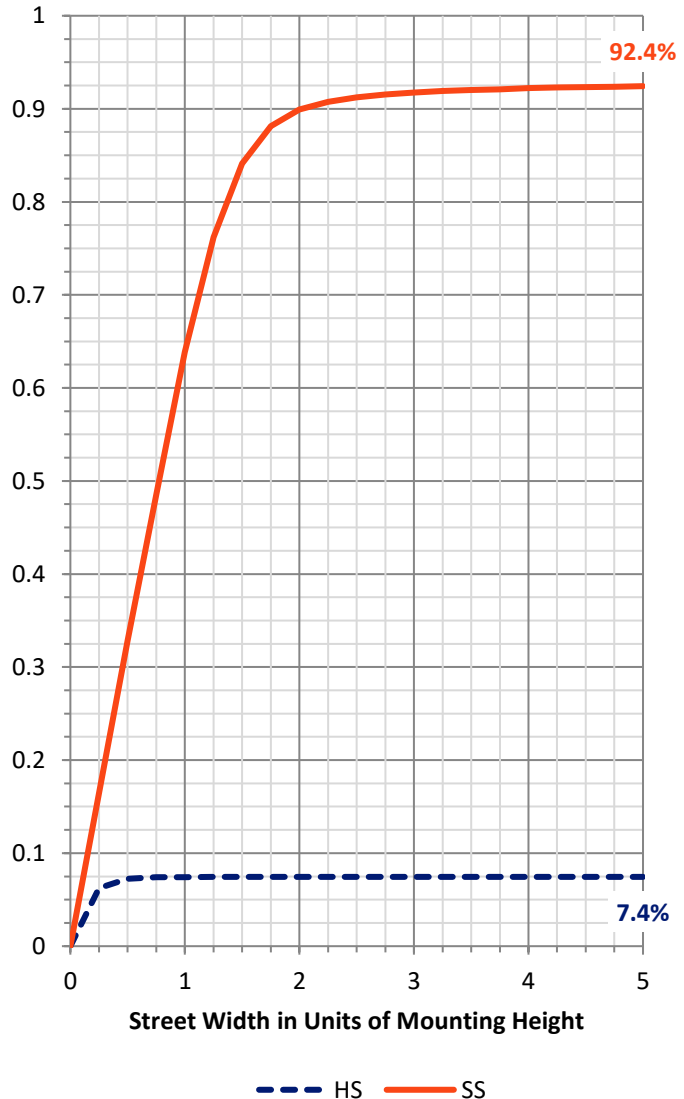
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2494.6	0.0	2494.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	30728.7	0.0	30728.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	33223.3	0.0	33223.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.9	1.2
10°-20°	1075.8	3.2
20°-30°	1787.2	5.4
30°-40°	3069.8	9.2
40°-50°	5561.2	16.7
50°-60°	8790.7	26.5
60°-70°	8945.2	26.9
70°-80°	3411.3	10.3
80°-90°	191.2	0.6
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°	33223.3	100.0
0°-180°	33223.3	100.0

**Coefficient of Utilization**

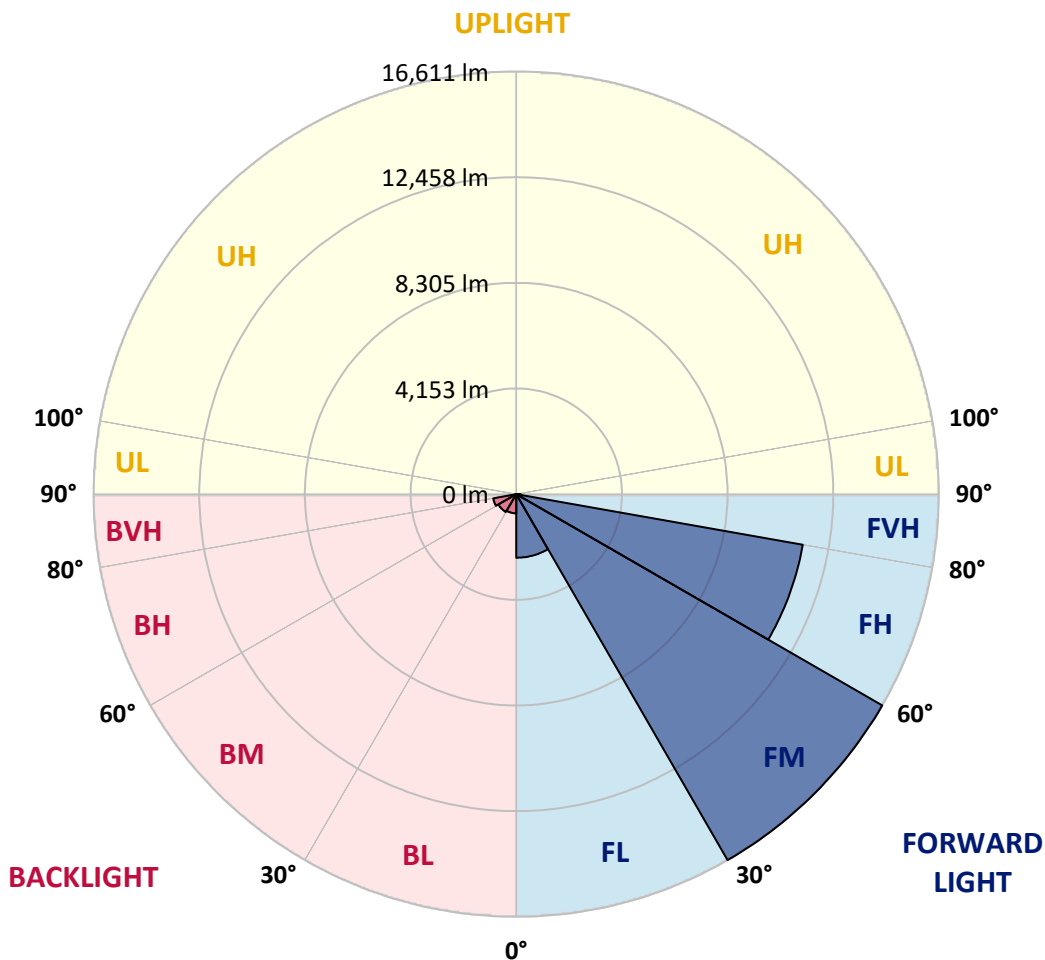


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.5	7.5			
FM (30°-60°)	16610.9	50.0			
FH (60°-80°)	11436.8	34.4			G4/12000
FVH (80°-90°)	181.5	0.5			G2/225
BL (0°-30°)	754.4	2.3	B2/1000		
BM (30°-60°)	810.8	2.4	B1/1000		
BH (60°-80°)	919.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.8	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4
2.5°	4681.4	4676.3	4655.8	4620.0	4573.9	4558.5	4491.9	4399.7	4348.5	4292.2	4266.5
5°	5004.1	4978.5	5040.0	5014.3	5024.6	4901.7	4819.7	4753.1	4558.5	4481.7	4358.7
7.5°	5075.8	5101.4	5096.3	5137.3	5178.2	5224.3	5168.0	5070.7	4876.1	4763.4	4630.2
10°	5075.8	5065.6	5106.5	5162.9	5280.7	5383.1	5536.8	5408.7	5260.2	5127.0	4886.3
12.5°	4983.6	4968.2	5009.2	5127.0	5337.0	5547.0	5716.0	5839.0	5629.0	5521.4	5209.0
15°	4701.9	4686.5	4855.6	5065.6	5342.1	5685.3	6038.7	6238.5	6095.1	5926.0	5577.8
17.5°	4353.6	4374.1	4553.4	4901.7	5342.1	5751.9	6202.6	6638.0	6617.5	6402.4	6038.7
20°	4235.8	4251.2	4430.4	4681.4	5183.4	5798.0	6458.7	7073.4	7196.3	6940.2	6463.8
22.5°	4461.2	4445.8	4461.2	4614.8	5075.8	5757.0	6627.7	7570.2	7790.4	7590.7	7022.1
25°	5229.5	5219.2	5091.2	4855.6	5014.3	5664.8	6714.8	7898.0	8405.0	8220.7	7472.9
27.5°	6356.3	6315.3	6115.6	5623.9	5301.2	5721.2	6858.2	8215.5	8942.8	8732.8	7877.5
30°	7565.1	7467.7	7206.5	6591.9	6043.8	5931.2	6940.2	8451.1	9542.1	9275.8	8230.9
32.5°	8399.9	8528.0	8446.0	7821.1	6981.2	6417.7	7073.4	8748.2	10095.3	9921.1	8835.3
35°	9690.6	9839.2	9496.0	8942.8	8097.7	7191.2	7355.1	8988.9	10945.5	10653.6	9398.7
37.5°	11319.4	11432.1	11186.2	10136.3	9245.0	8143.8	7933.8	9490.9	11677.9	11539.7	10120.9
40°	12138.9	12681.8	12333.5	11386.0	10428.2	9475.5	8891.6	10079.9	12953.3	12840.6	11119.7
42.5°	13270.9	13542.3	13363.1	12661.3	11662.6	10899.4	10074.8	11227.2	14500.1	14500.1	12471.8
45°	14469.4	14479.6	14469.4	13895.7	13009.6	12615.3	11672.8	12666.5	16164.7	16349.1	14090.4
47.5°	15452.8	15760.1	15734.5	15391.3	14705.0	14556.5	13270.9	14305.5	18254.5	18577.2	15667.9
50°	15959.9	16303.0	16405.5	16584.7	16554.0	16866.4	15017.4	16205.7	20057.4	20851.3	17696.2
52.5°	15821.6	15847.2	16477.2	17184.0	18310.8	19186.7	17122.5	18362.0	22167.6	22951.3	19263.5
55°	14689.6	14592.3	15888.1	16697.4	19027.9	20605.4	20036.9	21051.0	23811.7	25005.1	20882.0
57.5°	12205.5	12231.1	13429.6	15073.8	18495.2	21168.8	23151.0	24564.7	26116.6	27320.2	23156.1
60°	8425.5	8394.8	9736.7	11637.0	15365.7	20118.8	24943.7	29118.0	29200.0	30905.6	27238.3
62.5°	4737.8	4748.0	5767.3	7390.9	10750.9	16441.3	24856.6	33953.1	33604.8	35100.4	31878.7
65°	2683.9	2750.5	3452.2	4379.2	6438.2	11037.7	21378.8	35878.9	37000.6	38332.3	34695.8
66°	2269.0	2315.1	2914.4	3616.1	5137.3	8953.1	19243.0	35505.0	38066.0	39080.1	34639.4
67.5°	1756.8	1818.3	2320.2	2868.3	3769.7	6197.5	15488.6	33645.8	38260.6	38854.8	33661.2
70°	1203.6	1244.6	1628.8	2176.8	2576.3	3170.5	9260.4	27817.1	34716.3	35218.2	29256.3
72.5°	845.1	865.6	1142.2	1649.3	1982.2	1813.2	4594.3	19791.0	26567.3	27545.6	22756.6
75°	609.5	630.0	783.7	1183.2	1546.8	1188.3	2105.1	12640.9	16292.8	17061.1	13706.2
77.5°	440.5	466.1	532.7	763.2	1121.7	834.9	1034.6	6602.1	7682.9	7549.7	5895.3
80°	266.3	291.9	394.4	491.7	819.5	589.0	568.5	2755.6	2724.9	2586.6	1854.1
82.5°	122.9	143.4	210.0	332.9	573.7	409.8	271.5	983.4	860.5	788.8	522.4
85°	35.9	46.1	122.9	251.0	291.9	199.8	163.9	338.0	353.4	302.2	174.1
87.5°	0.0	5.1	56.3	61.5	87.1	66.6	61.5	87.1	163.9	133.2	56.3
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°	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4	4133.4
2.5°	4174.4	4138.5	4051.4	3918.3	3800.5	3739.0	3651.9	3575.1	3534.1	3529.0	3523.9
5°	4276.8	4179.5	3969.5	3728.7	3549.5	3354.8	3221.7	3124.4	3032.2	2945.1	2996.3
7.5°	4415.1	4261.4	3918.3	3605.8	3216.6	2965.6	2730.0	2591.7	2509.7	2432.9	2422.7
10°	4630.2	4435.6	3882.4	3319.0	2873.4	2504.6	2263.9	2064.1	1951.4	1818.3	1869.5
12.5°	4922.2	4573.9	3749.2	3057.8	2484.1	2094.9	1751.7	1429.0	1249.7	1111.5	1116.6
15°	5214.1	4758.2	3626.3	2740.2	2130.7	1618.5	1116.6	896.3	845.1	814.4	824.6
17.5°	5500.9	4906.8	3436.8	2417.5	1726.1	1029.5	814.4	768.3	742.7	711.9	711.9
20°	5849.2	5004.1	3201.2	2120.5	1188.3	763.2	696.6	665.8	624.9	583.9	589.0
22.5°	6187.3	5086.1	2929.7	1741.4	799.0	660.7	583.9	542.9	507.1	466.1	466.1
25°	6525.3	5111.7	2576.3	1249.7	645.4	527.6	455.8	399.5	363.7	327.8	332.9
27.5°	6755.8	4952.9	2243.4	799.0	517.3	399.5	317.6	271.5	240.7	204.9	204.9
30°	6889.0	4660.9	1884.9	563.4	389.3	271.5	189.5	143.4	112.7	87.1	82.0
32.5°	7022.1	4425.3	1480.2	430.2	256.1	143.4	71.7	25.6	0.0	0.0	0.0
35°	7288.5	4159.0	993.6	240.7	87.1	5.1	0.0	0.0	0.0	0.0	0.0
37.5°	7457.5	3790.2	455.8	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7882.6	3605.8	112.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8574.1	3477.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9332.1	3426.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10341.1	3564.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11406.5	3938.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12574.3	4292.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13593.5	4717.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15468.2	5721.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18833.2	7693.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	22623.5	9158.0	56.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	24011.5	9122.1	97.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	23765.6	8620.2	97.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	22490.3	7657.2	87.1	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19314.7	6325.6	87.1	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14725.5	4927.3	82.0	20.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	8886.5	2622.4	66.6	25.6	10.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3539.2	921.9	51.2	20.5	10.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	957.8	276.6	30.7	20.5	15.4	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	251.0	102.4	25.6	20.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0
85°	97.3	41.0	20.5	15.4	15.4	10.2	5.1	0.0	0.0	0.0	0.0
87.5°	30.7	15.4	15.4	10.2	10.2	5.1	5.1	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)