

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: P484009

Luminaire Tested: **IFLD-S-SA3D-740-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484009  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

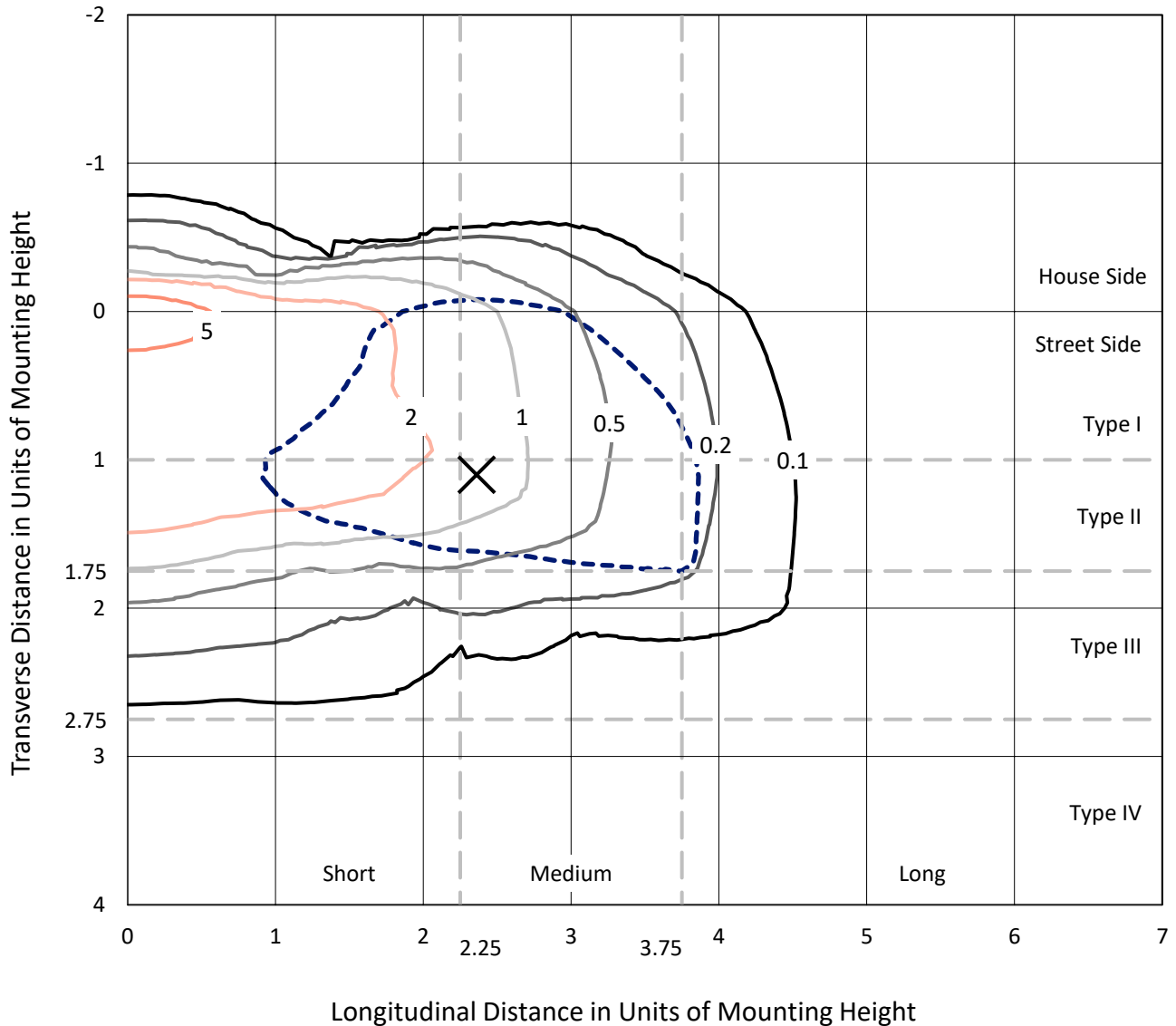
Lumens per Lamp: N/A  
Luminaire Lumens: 19182.9 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

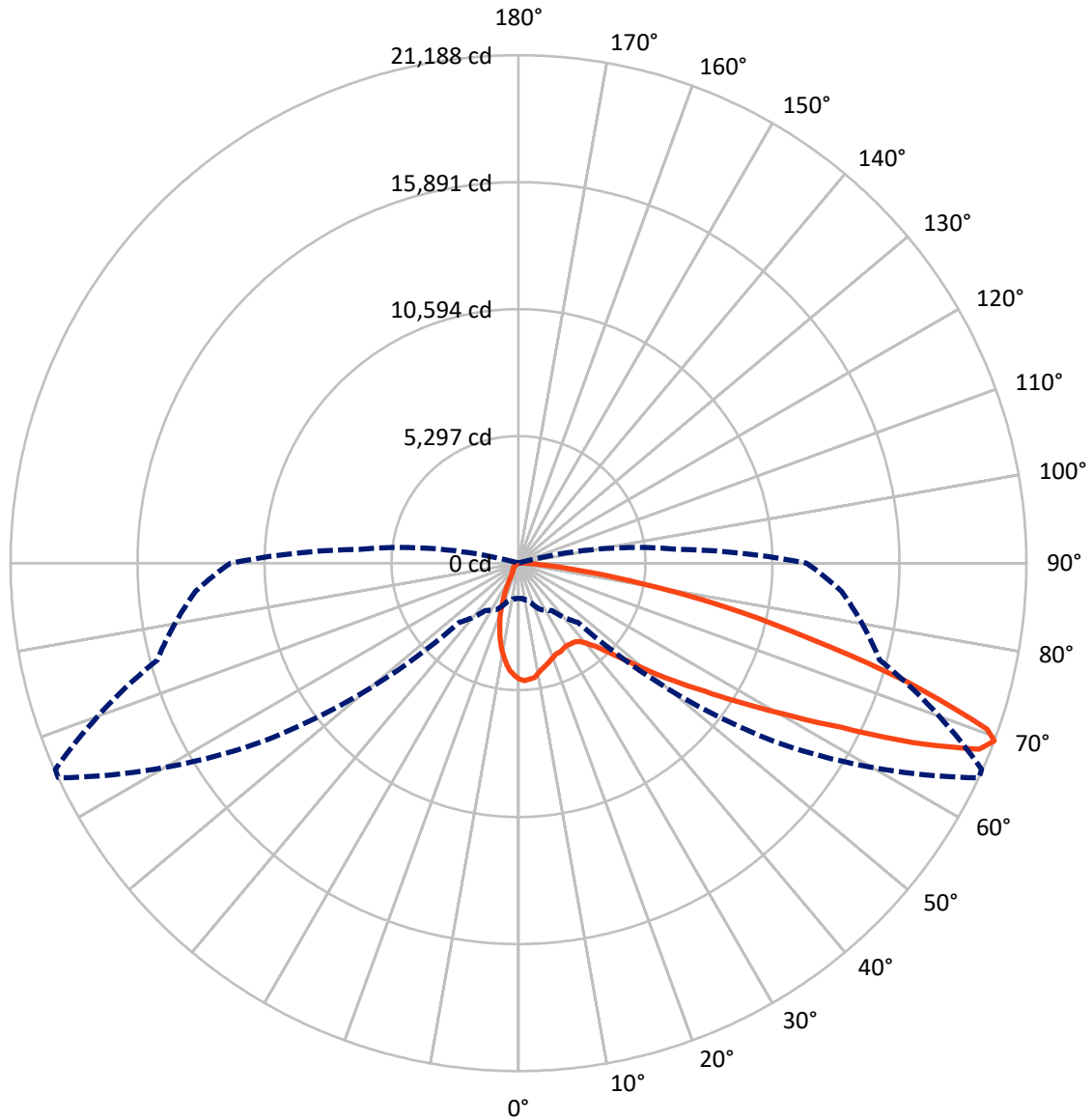
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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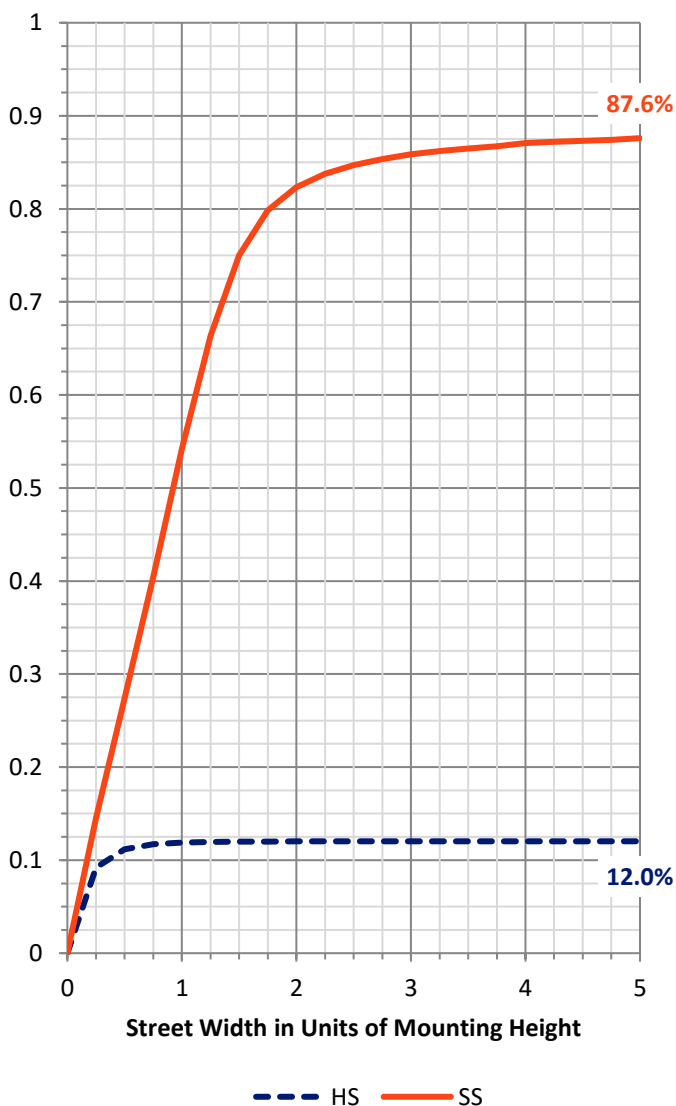
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2327.0	0.0	2327.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16855.9	0.0	16855.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19182.9	0.0	19182.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.8	2.1
10°-20°	866.0	4.5
20°-30°	1205.6	6.3
30°-40°	1708.5	8.9
40°-50°	2692.5	14.0
50°-60°	4369.0	22.8
60°-70°	4879.2	25.4
70°-80°	2747.6	14.3
80°-90°	318.8	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°	19182.9	100.0
0°-180°	19182.9	100.0

**Coefficient of Utilization**



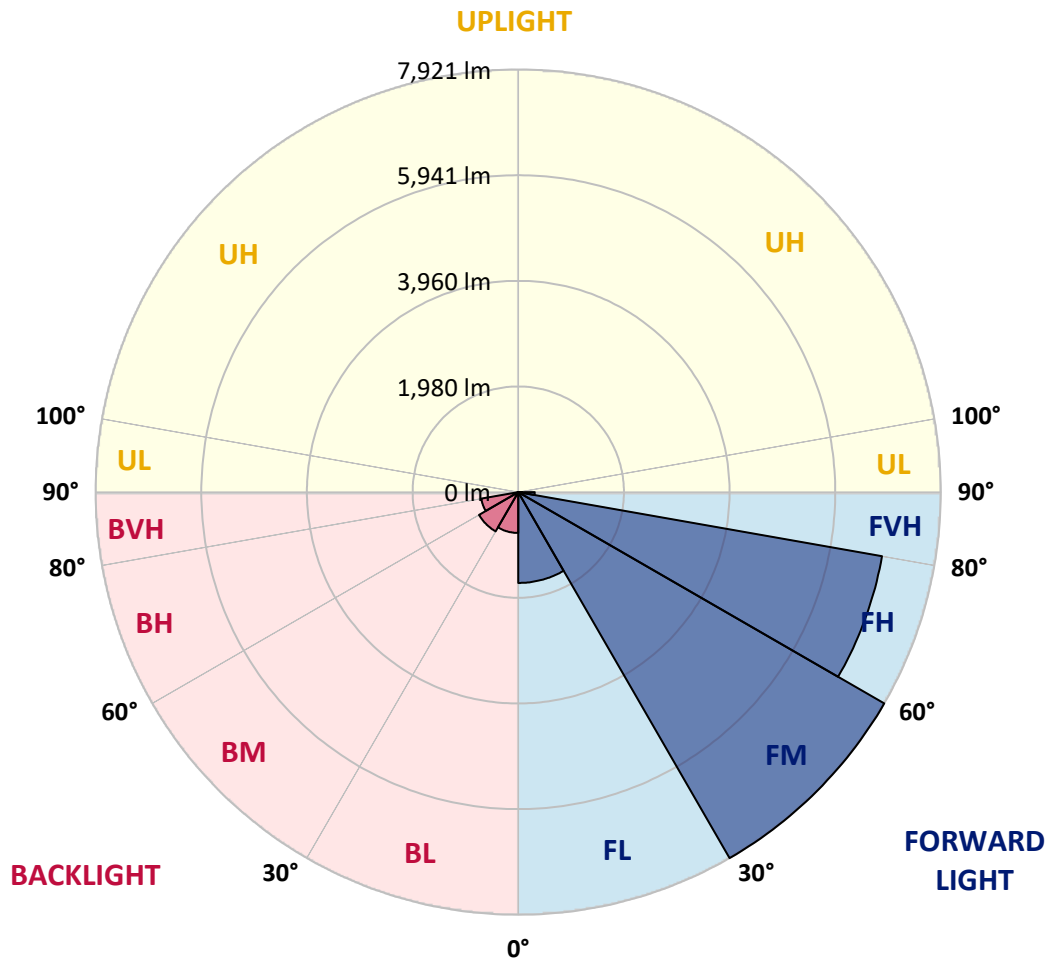
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.3	8.9			
FM (30°-60°)	7920.8	41.3			
FH (60°-80°)	6922.8	36.1			G3/7500
FVH (80°-90°)	310.0	1.6			G3/500
BL (0°-30°)	765.0	4.0	B2/1000		
BM (30°-60°)	849.1	4.4	B1/1000		
BH (60°-80°)	704.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.8	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5
2.5°	4657.9	4694.1	4704.5	4740.7	4758.8	4836.5	4880.4	4906.3	4893.4	4921.8	4924.4
5°	4326.7	4306.0	4360.3	4399.1	4481.9	4616.5	4753.6	4859.7	4908.9	4955.5	4947.7
7.5°	3972.2	3961.8	4016.1	4104.1	4179.2	4342.2	4562.2	4823.5	4813.2	4927.0	4960.7
10°	3728.9	3739.3	3757.4	3845.4	3956.6	4122.2	4396.5	4639.8	4694.1	4934.8	5002.1
12.5°	3506.4	3524.5	3558.1	3648.7	3778.1	3948.9	4215.4	4500.0	4582.9	4890.8	5025.4
15°	3433.9	3392.5	3459.8	3527.1	3661.6	3814.3	4039.4	4394.0	4430.2	4839.0	5064.2
17.5°	3374.4	3348.5	3379.6	3433.9	3576.2	3700.4	3912.6	4280.1	4347.4	4818.3	5059.0
20°	3392.5	3369.2	3382.2	3423.6	3488.2	3604.7	3801.4	4171.4	4243.9	4722.6	5051.2
22.5°	3444.3	3462.4	3439.1	3449.4	3470.1	3529.7	3741.8	4093.8	4155.9	4704.5	5095.2
25°	3677.2	3646.1	3615.0	3602.1	3480.5	3506.4	3723.7	4088.6	4132.6	4639.8	5059.0
27.5°	3920.4	3894.5	3881.6	3806.5	3640.9	3563.3	3726.3	4016.1	4075.7	4613.9	5015.0
30°	4215.4	4249.0	4197.3	4106.7	3876.4	3684.9	3754.8	3979.9	4062.7	4515.6	4986.5
32.5°	4525.9	4544.0	4569.9	4502.6	4205.0	3868.6	3840.2	4013.6	4018.7	4515.6	4921.8
35°	4877.9	4852.0	4919.3	4924.4	4663.1	4194.7	4003.2	4036.8	4091.2	4494.9	4898.6
37.5°	5180.6	5224.6	5302.2	5426.5	5157.3	4655.3	4256.8	4145.5	4168.8	4590.6	4916.7
40°	5511.8	5555.8	5731.8	5856.0	5703.3	5172.9	4642.4	4399.1	4417.2	4732.9	5009.8
42.5°	5876.7	5962.1	6171.7	6389.1	6347.7	5830.1	5139.2	4771.8	4764.0	5087.5	5201.3
45°	6371.0	6484.8	6712.6	6963.6	6999.8	6583.2	5801.7	5328.1	5354.0	5550.7	5597.2
47.5°	7059.3	7054.1	7276.7	7556.1	7765.8	7364.7	6593.5	6076.0	6073.4	6283.0	6184.7
50°	7724.3	7726.9	7786.5	8109.9	8653.3	8448.9	7574.3	7069.7	7041.2	7144.7	6986.8
52.5°	8032.3	7996.1	7952.1	8342.8	9336.5	9815.2	8816.4	8195.3	8172.0	8109.9	8068.5
55°	7708.8	7721.8	7719.2	8125.4	9696.2	11256.6	10410.4	9434.8	9396.0	9201.9	9258.9
57.5°	6671.1	6629.7	6720.3	7354.3	9284.7	12239.9	12690.2	10997.8	10896.9	10252.6	10123.2
60°	4965.8	4978.8	5053.8	5801.7	8262.6	12446.9	14871.6	12832.5	12397.8	10992.6	10814.1
62.5°	3467.5	3441.7	3470.1	3889.3	5907.8	11618.9	16346.6	15063.1	14643.9	11833.7	11730.1
65°	2481.6	2448.0	2561.8	2818.0	3547.8	8883.6	16556.2	18033.8	17658.6	13176.7	12928.3
67.5°	1785.5	1780.4	1912.3	2378.1	2520.4	5115.9	15003.6	20725.1	20497.3	14770.7	13658.0
69°	1477.6	1480.2	1607.0	2129.7	2406.6	3493.4	12910.1	21188.3	21146.9	15593.6	13520.8
70°	1288.7	1299.0	1446.5	1982.2	2360.0	2872.4	11129.8	20732.8	20691.4	15754.1	13068.0
72.5°	794.4	802.2	996.3	1588.9	2243.6	2344.5	6655.6	16962.5	17104.8	15019.1	11259.2
75°	380.4	383.0	522.7	1148.9	2163.3	2222.9	3565.9	12516.8	12817.0	12126.1	8798.3
77.5°	201.8	201.8	251.0	610.7	1751.9	2090.9	2116.8	8829.3	9077.7	7667.4	5002.1
80°	100.9	103.5	152.7	318.3	1086.8	2049.5	1653.6	5266.0	5400.6	3128.6	1557.8
82.5°	38.8	41.4	72.5	191.5	564.1	1731.2	1451.7	2590.3	2556.7	732.3	380.4
85°	5.2	5.2	25.9	113.9	240.7	763.4	1198.1	1081.7	1045.4	160.4	183.7
87.5°	0.0	0.0	5.2	33.6	72.5	222.5	463.2	297.6	331.2	44.0	90.6
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°	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5	4836.5
2.5°	4911.5	4857.2	4774.3	4694.1	4608.7	4505.2	4391.4	4350.0	4277.5	4272.3	4313.7
5°	4906.3	4818.3	4673.4	4502.6	4259.4	4075.7	3876.4	3731.5	3620.2	3547.8	3565.9
7.5°	4932.2	4826.1	4575.1	4207.6	3894.5	3529.7	3221.7	3009.5	2815.4	2719.7	2709.3
10°	4890.8	4748.5	4381.0	3866.1	3405.4	2895.7	2445.4	2160.7	1870.9	1764.8	1770.0
12.5°	4914.1	4714.8	4171.4	3514.1	2880.1	2217.7	1679.4	1291.3	1019.6	931.6	921.2
15°	4929.6	4642.4	3969.6	3092.3	2297.9	1511.2	973.0	732.3	646.9	631.4	628.8
17.5°	4870.1	4554.4	3684.9	2675.7	1702.7	918.6	646.9	597.8	582.2	571.9	566.7
20°	4867.5	4502.6	3439.1	2248.7	1136.0	626.2	558.9	540.8	517.5	509.8	509.8
22.5°	4823.5	4394.0	3144.1	1780.4	724.6	538.2	502.0	473.6	447.7	437.3	434.7
25°	4810.6	4267.2	2867.2	1337.9	551.2	481.3	445.1	403.7	372.6	357.1	349.3
27.5°	4774.3	4158.5	2587.7	941.9	481.3	429.6	383.0	339.0	302.8	279.5	276.9
30°	4645.0	4044.6	2277.2	652.1	437.3	380.4	328.6	276.9	240.7	225.1	220.0
32.5°	4590.6	3938.5	1938.2	502.0	398.5	336.4	276.9	230.3	201.8	186.3	183.7
35°	4525.9	3783.2	1609.6	437.3	362.3	292.4	232.9	194.1	170.8	157.9	157.9
37.5°	4533.7	3659.0	1301.6	395.9	323.5	251.0	199.3	165.6	144.9	132.0	132.0
40°	4510.4	3560.7	1011.8	359.7	287.2	214.8	168.2	139.7	121.6	108.7	106.1
42.5°	4616.5	3534.8	763.4	328.6	251.0	183.7	144.9	119.0	100.9	85.4	85.4
45°	4795.0	3576.2	595.2	300.2	214.8	157.9	124.2	98.3	80.2	69.9	67.3
47.5°	5271.2	3739.3	465.8	276.9	183.7	137.1	103.5	80.2	64.7	54.3	51.8
50°	5962.1	4104.1	395.9	243.2	155.3	116.4	85.4	62.1	51.8	41.4	38.8
52.5°	6945.4	4717.4	359.7	214.8	129.4	95.7	67.3	49.2	38.8	31.1	28.5
55°	8016.8	5483.4	326.1	181.1	108.7	77.6	54.3	38.8	28.5	20.7	18.1
57.5°	8852.6	6145.8	297.6	150.1	88.0	62.1	41.4	28.5	20.7	12.9	10.4
60°	9766.1	6611.6	261.4	119.0	72.5	46.6	31.1	20.7	15.5	7.8	7.8
62.5°	10708.0	7157.6	214.8	93.2	56.9	36.2	23.3	15.5	10.4	2.6	2.6
65°	12017.4	7584.6	165.6	72.5	44.0	25.9	18.1	12.9	5.2	0.0	0.0
67.5°	12387.4	7375.0	121.6	56.9	31.1	18.1	12.9	7.8	2.6	0.0	0.0
69°	12017.4	6642.7	106.1	49.2	25.9	15.5	10.4	5.2	2.6	0.0	0.0
70°	11342.0	6073.4	93.2	41.4	23.3	15.5	7.8	5.2	2.6	0.0	0.0
72.5°	9486.6	4657.9	72.5	31.1	18.1	12.9	7.8	5.2	0.0	0.0	0.0
75°	6958.4	2877.5	54.3	23.3	15.5	10.4	7.8	5.2	0.0	0.0	0.0
77.5°	3728.9	1050.6	38.8	15.5	10.4	7.8	7.8	5.2	0.0	0.0	0.0
80°	1022.2	310.5	28.5	10.4	7.8	5.2	5.2	2.6	0.0	0.0	0.0
82.5°	279.5	80.2	18.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
85°	150.1	31.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	77.6	10.4	7.8	5.2	5.2	2.6	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)