

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: P479500

Luminaire Tested: **IFLD-S-SA6D-830-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479500  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

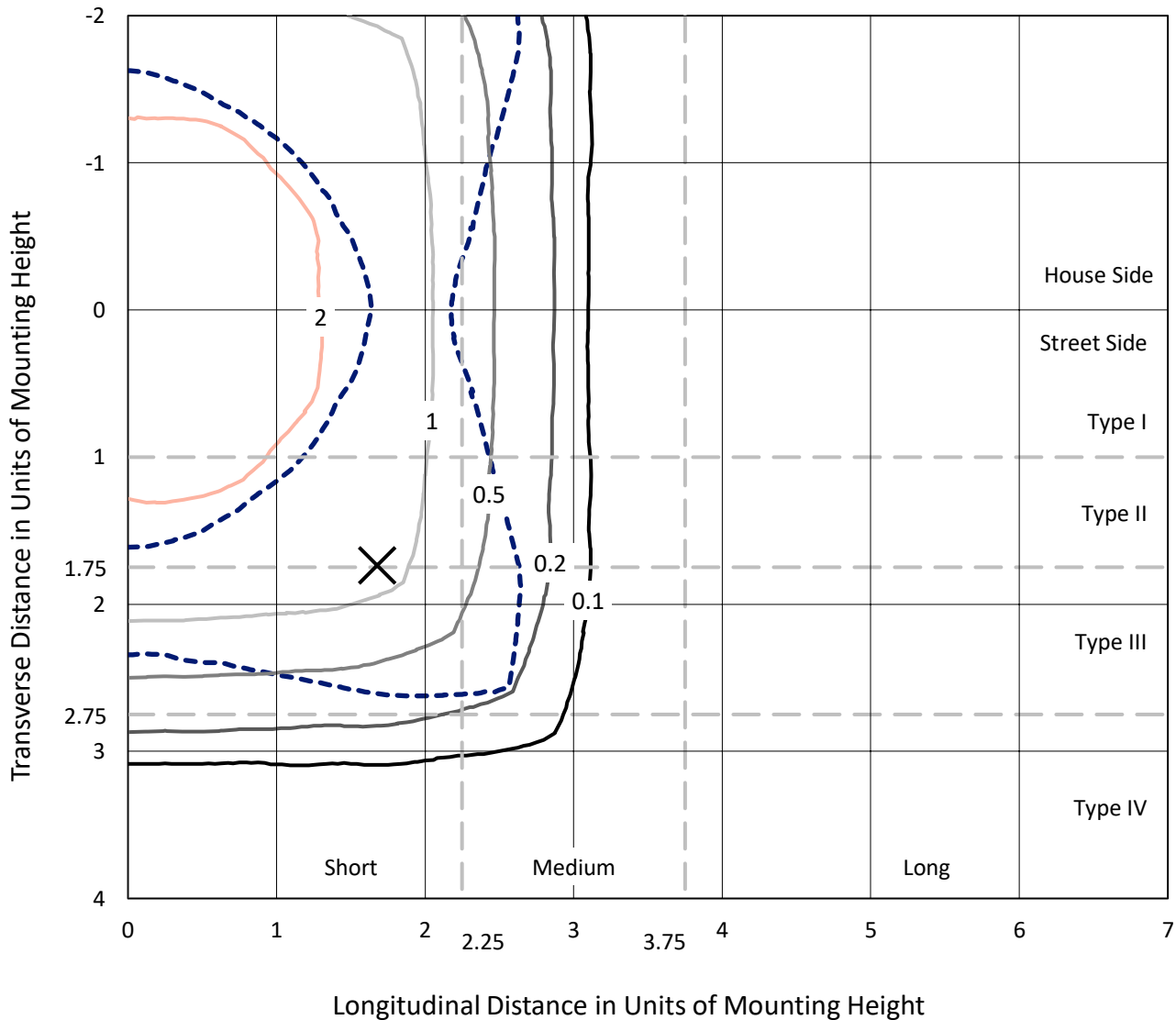
Lumens per Lamp: N/A  
Luminaire Lumens: 36672.4 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2  
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

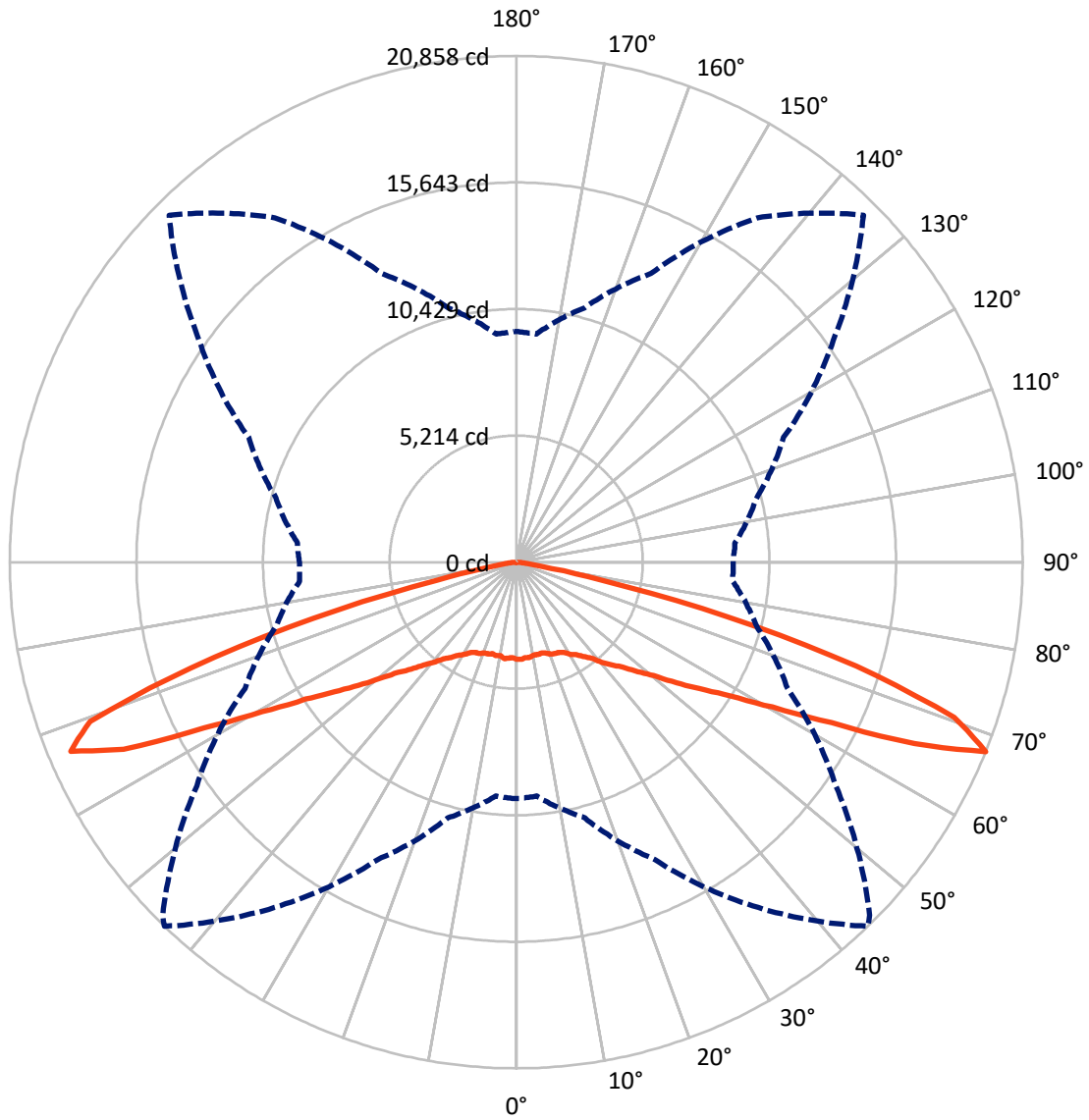
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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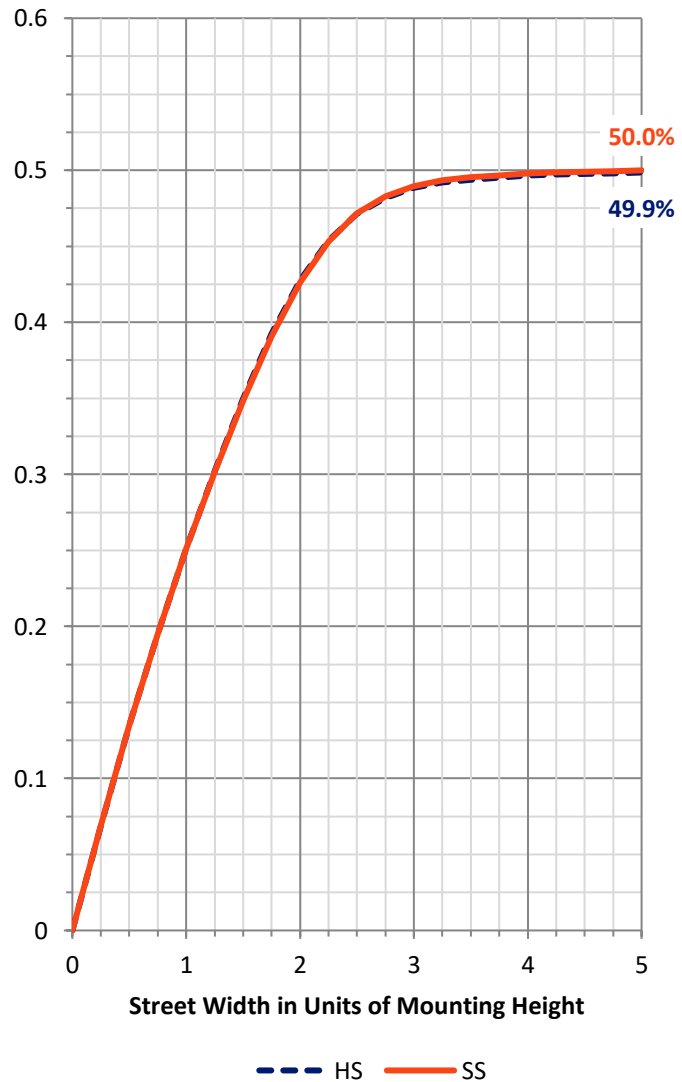
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18289.2	0.0	18289.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	18383.2	0.0	18383.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	36672.4	0.0	36672.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.1	1.0
10°-20°	1107.5	3.0
20°-30°	1883.3	5.1
30°-40°	2986.0	8.1
40°-50°	4868.9	13.3
50°-60°	8315.5	22.7
60°-70°	12647.8	34.5
70°-80°	4263.1	11.6
80°-90°	221.3	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°	36672.4	100.0
0°-180°	36672.4	100.0

**Coefficient of Utilization**

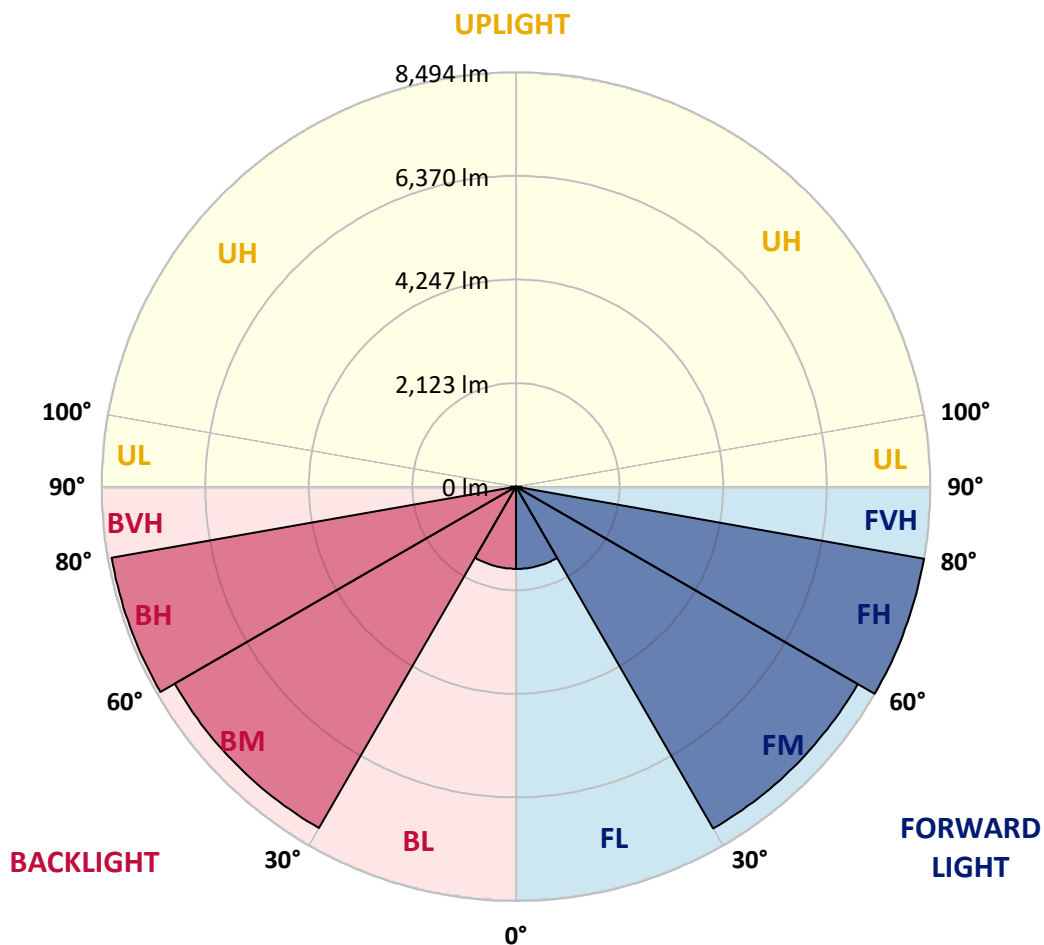


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.6	4.6			
FM (30°-60°)	8089.6	22.1			
FH (60°-80°)	8493.7	23.2			G4/12000
FVH (80°-90°)	113.2	0.3			G2/225
BL (0°-30°)	1683.2	4.6	B3/2500		
BM (30°-60°)	8080.8	22.0	B4/8500		
BH (60°-80°)	8417.1	23.0	B5		G4/12000
BVH (80°-90°)	108.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8
2.5°	3913.7	3959.8	3993.3	3989.1	4001.6	4014.2	3997.5	4022.6	4005.8	4035.1	4051.9
5°	3989.1	3976.5	3980.7	3955.6	4014.2	3947.2	3947.2	3980.7	4022.6	3972.3	4001.6
7.5°	3943.0	3934.7	3913.7	3951.4	3964.0	3964.0	3997.5	3934.7	4005.8	4022.6	4026.8
10°	3892.8	3846.8	3909.6	3947.2	3955.6	3888.6	3917.9	3934.7	3913.7	3934.7	3947.2
12.5°	3851.0	3876.1	3876.1	3876.1	3863.5	3909.6	3938.9	3934.7	3892.8	3930.5	3863.5
15°	3846.8	3834.2	3871.9	3905.4	3884.4	3892.8	3905.4	3943.0	3863.5	3880.3	3880.3
17.5°	3842.6	3859.3	3871.9	3867.7	3938.9	3938.9	3926.3	3901.2	3964.0	3930.5	3884.4
20°	3859.3	3846.8	3880.3	3892.8	3943.0	4043.5	4005.8	3984.9	3951.4	3909.6	3909.6
22.5°	3880.3	3871.9	3917.9	3972.3	4068.6	4093.7	4089.5	4064.4	4005.8	3955.6	3947.2
25°	3955.6	3880.3	3930.5	4035.1	4068.6	4118.8	4152.3	4118.8	4039.3	4051.9	3976.5
27.5°	4068.6	4056.1	4123.0	4194.2	4164.9	4210.9	4181.6	4206.7	4210.9	4148.1	4072.8
30°	4202.6	4164.9	4206.7	4344.9	4357.4	4407.7	4357.4	4290.5	4311.4	4257.0	4219.3
32.5°	4395.1	4382.6	4462.1	4554.2	4570.9	4545.8	4520.7	4558.4	4470.5	4428.6	4361.6
35°	4520.7	4575.1	4671.4	4742.5	4796.9	4771.8	4784.4	4746.7	4767.6	4679.7	4650.4
37.5°	4893.2	4872.3	4893.2	5014.6	5027.2	5014.6	5027.2	5069.0	5039.7	4964.4	4889.0
40°	5244.8	5211.3	5261.6	5399.7	5391.3	5433.2	5349.5	5395.5	5395.5	5253.2	5223.9
42.5°	5508.5	5621.6	5680.2	5793.2	5835.0	5797.4	5780.6	5789.0	5881.1	5713.6	5650.9
45°	6052.7	6048.5	6224.3	6287.1	6169.9	6161.5	6128.0	6228.5	6291.3	6195.0	6169.9
47.5°	6642.9	6672.2	6772.7	6797.8	6868.9	6739.2	6739.2	6751.7	6973.6	6747.5	6630.3
50°	7174.5	7212.2	7413.1	7609.8	7475.9	7337.7	7392.2	7459.1	7580.5	7367.0	7266.6
52.5°	7819.1	8024.2	8158.2	8262.8	8359.1	8262.8	8137.2	8212.6	8451.2	8166.5	8041.0
55°	8748.4	8911.6	9037.2	9229.7	9309.3	9179.5	9166.9	9158.6	9292.5	8991.1	8819.5
57.5°	9786.4	9719.5	9920.4	10217.6	10506.4	10380.8	10343.2	10351.5	10385.0	9958.1	9828.3
60°	11075.7	11151.0	11389.6	11649.1	11954.7	12130.5	11883.5	11741.2	11770.5	11188.7	10987.8
62.5°	11812.4	11979.8	12519.8	13411.4	14026.7	14575.0	14612.7	13687.6	13068.1	11938.0	11084.0
65°	11456.6	11431.5	12448.6	14097.8	16429.3	18024.1	17785.5	15541.9	13377.9	11582.2	10435.2
67.5°	9744.6	9677.6	10908.2	13524.4	17375.3	20857.9	20585.8	16065.2	12331.4	10246.9	8949.3
70°	6278.7	6262.0	7597.3	10309.7	15512.6	19150.1	19250.6	14591.8	10037.6	7505.2	6220.1
72.5°	2281.3	2419.4	3193.8	5542.0	10535.7	14650.4	14713.1	10803.6	5772.2	3470.0	2557.5
75°	841.3	866.5	1008.8	1799.9	4801.1	8995.3	9229.7	5240.6	2051.1	1130.2	920.9
77.5°	485.6	489.7	540.0	669.7	1423.2	3511.9	3654.2	1590.6	795.3	602.8	556.7
80°	330.7	326.5	380.9	435.3	569.3	996.2	1059.0	665.5	502.3	418.6	351.6
82.5°	192.5	205.1	280.4	309.8	347.4	439.5	447.9	414.4	376.7	309.8	230.2
85°	117.2	96.3	154.9	171.6	200.9	196.7	196.7	226.0	242.8	217.7	129.8
87.5°	29.3	29.3	37.7	41.9	54.4	41.9	46.0	87.9	117.2	108.8	67.0
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°	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8	4005.8
2.5°	4014.2	4001.6	4010.0	4056.1	4026.8	3938.9	3959.8	4005.8	3968.2	3947.2	3943.0
5°	3997.5	4022.6	3993.3	4001.6	4030.9	3959.8	3972.3	4030.9	4005.8	4014.2	3968.2
7.5°	4001.6	4014.2	3989.1	3951.4	3951.4	4010.0	3976.5	3984.9	3947.2	4010.0	3926.3
10°	3976.5	3943.0	3913.7	3934.7	3926.3	3909.6	3897.0	3922.1	3884.4	3938.9	3880.3
12.5°	3901.2	3909.6	3901.2	3892.8	3909.6	3951.4	3884.4	3892.8	3834.2	3842.6	3871.9
15°	3871.9	3897.0	3888.6	3934.7	3955.6	3892.8	3943.0	3892.8	3846.8	3821.7	3867.7
17.5°	3884.4	3922.1	3909.6	3943.0	3905.4	3951.4	3959.8	3938.9	3884.4	3863.5	3884.4
20°	3897.0	3884.4	3901.2	3959.8	4014.2	3968.2	3968.2	3955.6	3905.4	3876.1	3876.1
22.5°	3926.3	3905.4	3930.5	3976.5	3993.3	4064.4	4001.6	3972.3	3888.6	3813.3	3884.4
25°	3984.9	3997.5	4014.2	3997.5	4089.5	4081.2	4072.8	4051.9	3922.1	3926.3	3913.7
27.5°	4097.9	4026.8	4047.7	4148.1	4160.7	4194.2	4152.3	4190.0	4051.9	4056.1	3972.3
30°	4236.0	4160.7	4227.7	4315.6	4311.4	4374.2	4353.2	4361.6	4265.3	4210.9	4097.9
32.5°	4386.7	4378.4	4420.2	4474.6	4495.6	4529.1	4524.9	4524.9	4466.3	4323.9	4344.9
35°	4554.2	4612.8	4663.0	4721.6	4730.0	4771.8	4713.2	4721.6	4663.0	4558.4	4591.8
37.5°	4884.8	4880.7	4935.1	5006.2	5014.6	4981.1	5027.2	5006.2	4926.7	4855.5	4801.1
40°	5269.9	5186.2	5236.5	5403.9	5416.4	5357.8	5353.7	5349.5	5290.9	5136.0	5102.5
42.5°	5604.8	5713.6	5705.3	5759.7	5722.0	5692.7	5797.4	5738.8	5692.7	5529.5	5500.2
45°	6035.9	6069.4	6178.3	6354.1	6174.1	6174.1	6245.2	6199.2	6174.1	6052.7	5939.7
47.5°	6571.7	6601.0	6818.7	6831.3	6714.1	6634.5	6856.4	6864.7	6760.1	6668.0	6529.9
50°	7199.6	7212.2	7408.9	7609.8	7480.1	7329.4	7555.4	7643.3	7408.9	7283.3	7111.7
52.5°	7890.3	7852.6	8015.8	8392.6	8267.0	8220.9	8463.7	8484.7	8166.5	7969.8	8015.8
55°	8685.6	8635.3	9079.0	9334.4	9254.8	9171.1	9280.0	9330.2	9074.9	8752.5	8865.6
57.5°	9715.3	9740.4	9962.2	10213.4	10343.2	10364.1	10414.3	10364.1	10104.6	9778.1	9673.4
60°	10745.0	10820.3	11251.5	11724.5	11766.3	12134.7	12067.7	11816.6	11448.2	10983.6	11004.5
62.5°	11125.9	11063.1	11758.0	12913.2	13896.9	14570.8	14273.6	13382.1	12528.2	11682.6	11745.4
65°	10359.9	10514.8	11460.8	13269.0	15403.8	18070.2	16487.9	14022.5	12297.9	11205.4	11084.0
67.5°	8928.3	9045.6	10246.9	12155.6	15943.8	20221.7	17325.1	13118.4	10845.5	9430.6	9506.0
70°	6220.1	6278.7	7454.9	9958.1	14457.8	19083.1	15629.8	10075.3	7488.4	5969.0	6052.7
72.5°	2503.1	2645.4	3419.8	5998.3	10673.8	14499.7	10523.1	5286.7	3105.9	2310.6	2097.1
75°	925.1	929.3	1092.5	2063.6	5069.0	9112.5	4746.7	1699.4	992.0	812.0	774.4
77.5°	535.8	531.6	569.3	745.1	1469.2	3557.9	1347.8	665.5	540.0	485.6	464.6
80°	334.9	330.7	389.3	493.9	644.6	975.3	569.3	414.4	364.2	313.9	313.9
82.5°	213.5	217.7	305.6	364.2	393.5	431.1	330.7	293.0	272.1	180.0	175.8
85°	138.1	125.6	213.5	242.8	217.7	192.5	184.2	154.9	142.3	87.9	96.3
87.5°	62.8	67.0	108.8	121.4	79.5	46.0	46.0	33.5	33.5	20.9	20.9
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)