

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: P479122

Luminaire Tested: **IFLD-L-SA8A-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479122  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

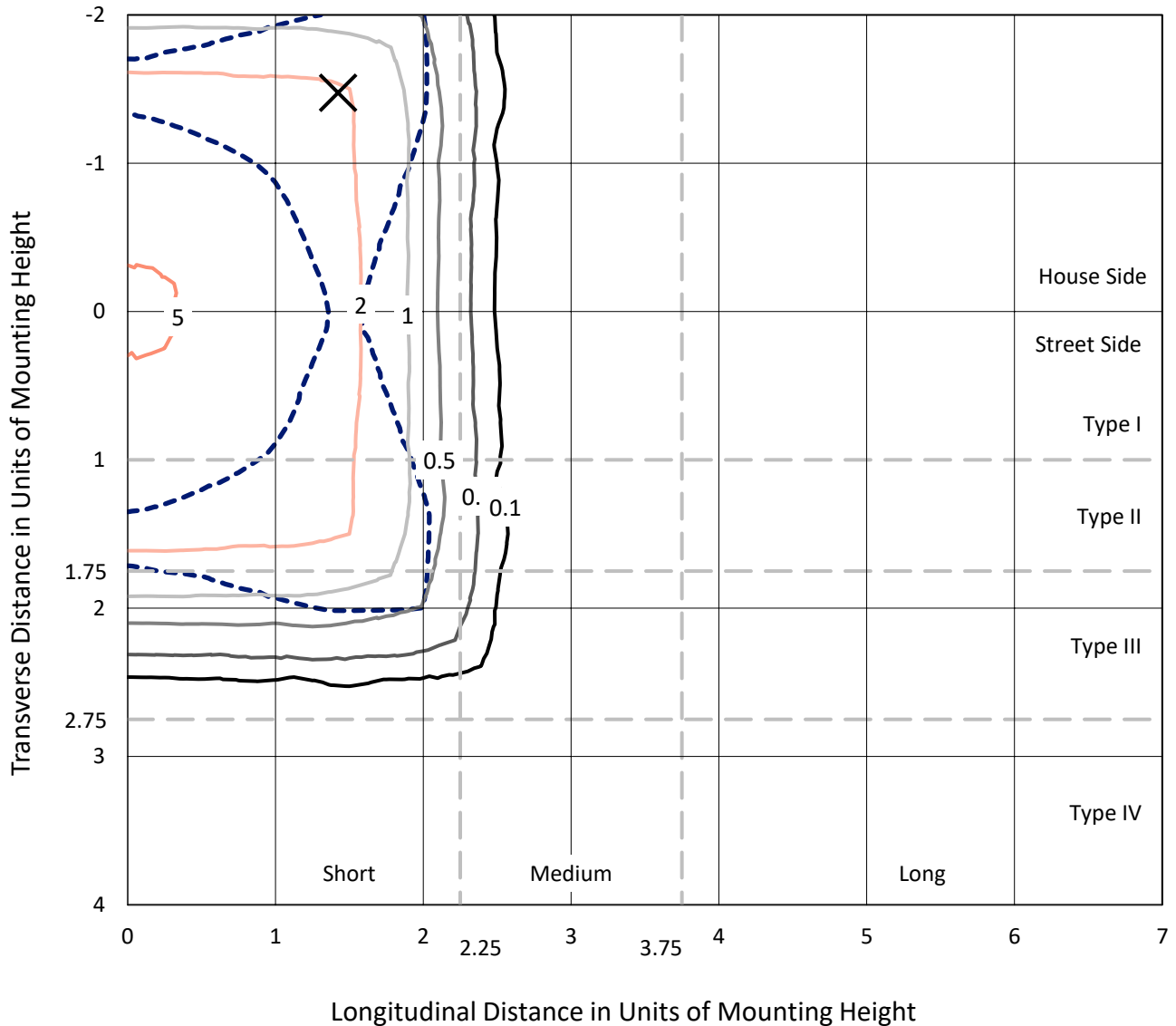
Lumens per Lamp: N/A  
Luminaire Lumens: 27148.5 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 247.8  
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

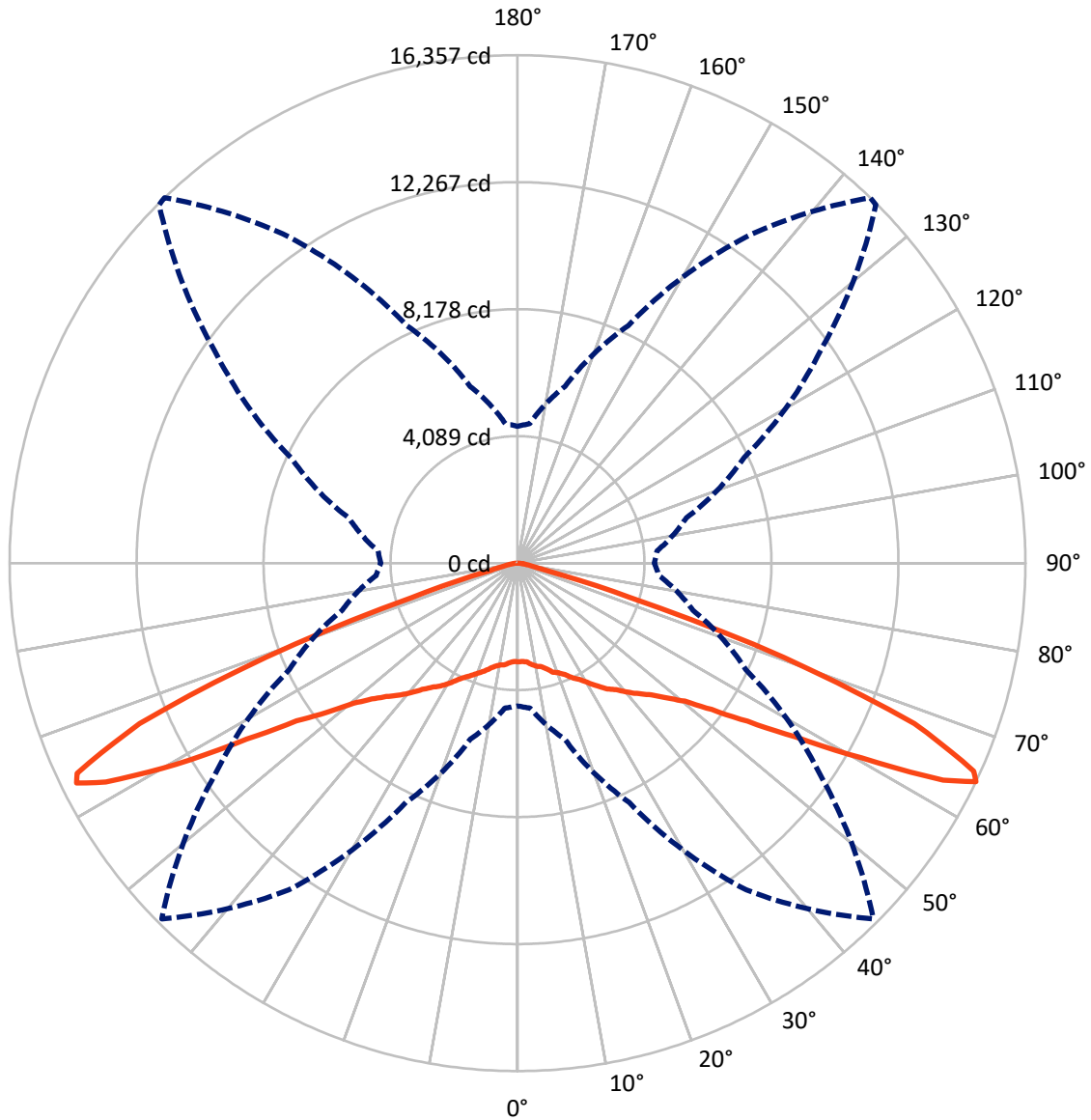
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13587.2	0.0	13587.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13561.3	0.0	13561.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27148.5	0.0	27148.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.3	1.2
10°-20°	1006.6	3.7
20°-30°	1891.8	7.0
30°-40°	3119.9	11.5
40°-50°	4879.3	18.0
50°-60°	7883.8	29.0
60°-70°	7098.8	26.1
70°-80°	840.9	3.1
80°-90°	115.1	0.4
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°	27148.5	100.0
0°-180°	27148.5	100.0



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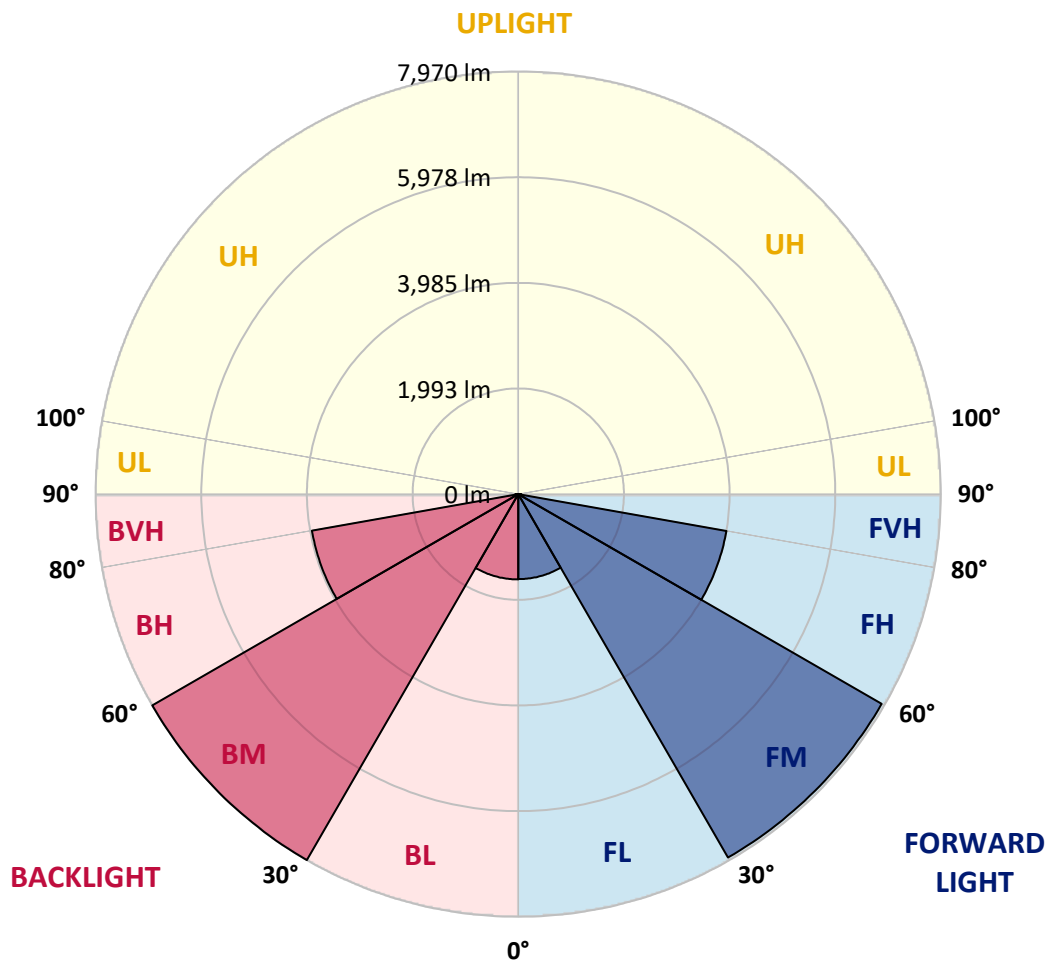
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.3	5.9			
FM (30°-60°)	7913.0	29.1			
FH (60°-80°)	3987.1	14.7			G2/5000
FVH (80°-90°)	59.0	0.2			G1/100
BL (0°-30°)	1608.4	5.9	B3/2500		
BM (30°-60°)	7970.0	29.4	B4/8500		
BH (60°-80°)	3952.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	56.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5
2.5°	3141.2	3147.4	3203.4	3181.6	3200.3	3166.1	3191.0	3243.9	3181.6	3228.3	3243.9
5°	3175.4	3184.8	3184.8	3206.6	3219.0	3212.8	3228.3	3206.6	3265.7	3240.8	3278.2
7.5°	3299.9	3284.4	3259.5	3278.2	3281.3	3296.8	3312.4	3340.4	3331.1	3309.3	3346.6
10°	3321.7	3309.3	3346.6	3349.8	3334.2	3321.7	3337.3	3337.3	3365.3	3371.5	3371.5
12.5°	3359.1	3371.5	3368.4	3393.3	3396.5	3387.1	3412.0	3458.7	3446.3	3455.6	3433.8
15°	3502.3	3486.7	3483.6	3508.5	3549.0	3489.8	3533.4	3530.3	3517.9	3536.5	3486.7
17.5°	3626.8	3577.0	3598.8	3639.3	3623.7	3636.2	3692.2	3642.4	3654.8	3633.1	3617.5
20°	3735.8	3695.3	3698.4	3714.0	3714.0	3751.4	3773.1	3754.5	3742.0	3738.9	3745.1
22.5°	3857.2	3810.5	3813.6	3879.0	3900.8	3888.3	3872.8	3903.9	3910.1	3885.2	3913.2
25°	3947.5	3997.3	4012.9	4044.0	3997.3	4031.5	4019.1	4078.2	4115.6	4065.8	4100.0
27.5°	4184.1	4162.3	4202.8	4199.6	4237.0	4202.8	4224.6	4243.2	4258.8	4261.9	4246.3
30°	4395.8	4405.1	4364.6	4473.6	4386.4	4442.5	4479.8	4489.2	4507.9	4507.9	4461.2
32.5°	4619.9	4601.2	4666.6	4641.7	4626.2	4669.7	4629.3	4756.9	4682.2	4725.8	4672.8
35°	4872.1	4872.1	4897.0	4965.5	4872.1	4844.1	4918.8	4971.7	4971.7	4893.9	4912.6
37.5°	5155.4	5130.5	5161.6	5248.8	5177.2	5083.8	5220.8	5242.6	5227.0	5205.2	5167.8
40°	5354.6	5348.4	5410.7	5525.9	5423.1	5404.4	5429.3	5488.5	5507.2	5529.0	5479.2
42.5°	5690.8	5718.9	5899.4	5871.4	5787.4	5722.0	5715.8	5936.8	5883.9	5827.8	5799.8
45°	6189.0	6164.0	6257.4	6260.6	6151.6	6008.4	6039.5	6241.9	6332.2	6207.6	6254.3
47.5°	6584.3	6596.8	6662.2	6796.0	6543.9	6394.4	6509.6	6836.5	6808.5	6761.8	6805.4
50°	7113.6	7169.6	7375.1	7328.4	7104.2	6920.5	7172.7	7480.9	7515.2	7343.9	7312.8
52.5°	7845.2	7932.3	8044.4	8081.8	7866.9	7801.6	7817.1	8200.1	8116.0	7951.0	7845.2
55°	8486.5	8526.9	8732.4	9040.6	9025.0	8710.6	8891.2	9034.4	8691.9	8352.6	8380.6
57.5°	8760.4	8779.1	9351.9	9968.3	10335.7	10407.3	10201.8	9719.3	8903.6	8249.9	8209.4
60°	8078.6	8256.1	8947.2	10338.8	12016.8	12844.9	11478.2	9797.1	8408.6	7614.8	7555.6
62.5°	6456.7	6466.0	7493.4	9604.1	13062.8	15232.7	11967.0	9065.5	7088.7	6189.0	5952.4
64°	4598.1	4685.3	5865.2	8502.0	12844.9	16204.0	11907.8	8109.8	5843.4	4567.0	4402.0
65°	3299.9	3421.4	4560.8	7381.3	12334.3	16088.8	11730.4	7287.9	4725.8	3486.7	3318.6
67.5°	1214.1	1263.9	1790.1	3692.2	8856.9	13710.3	9295.9	4006.6	2076.5	1478.7	1329.3
70°	563.5	566.6	663.1	1220.4	3872.8	9168.2	4436.2	1503.7	781.4	619.5	575.9
72.5°	414.0	423.4	463.9	563.5	1139.4	3882.1	1457.0	616.4	457.6	404.7	395.4
75°	336.2	342.4	354.9	407.8	526.1	1039.8	591.5	426.5	364.2	326.9	314.4
77.5°	258.4	258.4	286.4	311.3	348.7	485.7	392.3	339.3	295.7	258.4	249.1
80°	186.8	189.9	224.1	242.8	236.6	320.7	283.3	280.2	242.8	202.4	186.8
82.5°	109.0	118.3	161.9	174.3	168.1	189.9	205.5	217.9	189.9	140.1	127.6
85°	62.3	65.4	93.4	96.5	96.5	90.3	118.3	130.8	127.6	87.2	77.8
87.5°	18.7	18.7	24.9	24.9	28.0	31.1	46.7	56.0	62.3	43.6	40.5
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5	3178.5
2.5°	3228.3	3181.6	3184.8	3197.2	3156.7	3172.3	3219.0	3184.8	3175.4	3156.7	3147.4
5°	3212.8	3262.6	3243.9	3250.1	3240.8	3197.2	3191.0	3219.0	3234.6	3206.6	3262.6
7.5°	3321.7	3299.9	3275.0	3284.4	3262.6	3299.9	3324.9	3268.8	3296.8	3281.3	3250.1
10°	3384.0	3343.5	3362.2	3356.0	3340.4	3377.8	3352.9	3346.6	3321.7	3287.5	3337.3
12.5°	3405.8	3452.5	3483.6	3430.7	3440.0	3421.4	3405.8	3405.8	3377.8	3368.4	3377.8
15°	3502.3	3542.8	3530.3	3570.8	3517.9	3536.5	3555.2	3508.5	3533.4	3464.9	3517.9
17.5°	3679.8	3645.5	3689.1	3636.2	3654.8	3692.2	3633.1	3633.1	3651.7	3614.4	3567.7
20°	3791.8	3776.3	3760.7	3763.8	3732.7	3766.9	3748.2	3738.9	3710.9	3723.3	3748.2
22.5°	3897.7	3875.9	3882.1	3891.4	3913.2	3897.7	3888.3	3897.7	3829.2	3891.4	3804.3
25°	4028.4	4087.6	4068.9	4109.4	4047.1	4087.6	4084.5	4025.3	4062.7	4037.8	4019.1
27.5°	4246.3	4215.2	4243.2	4193.4	4237.0	4240.1	4202.8	4302.4	4258.8	4252.6	4240.1
30°	4526.5	4504.7	4486.1	4458.0	4492.3	4464.3	4495.4	4504.7	4464.3	4433.1	4374.0
32.5°	4685.3	4744.4	4766.2	4697.8	4700.9	4716.4	4688.4	4660.4	4685.3	4694.6	4685.3
35°	4909.4	4965.5	4977.9	4925.0	4897.0	4974.8	4918.8	5012.2	4931.2	4934.4	4850.3
37.5°	5171.0	5186.5	5292.4	5233.2	5208.3	5171.0	5273.7	5261.2	5279.9	5130.5	5205.2
40°	5466.7	5522.7	5581.9	5432.5	5429.3	5463.6	5457.4	5529.0	5494.7	5472.9	5420.0
42.5°	5790.5	5908.8	5918.1	5818.5	5756.2	5750.0	5781.1	5939.9	5943.0	5799.8	5737.5
45°	6220.1	6350.8	6316.6	6123.6	6055.1	6045.7	6198.3	6266.8	6325.9	6269.9	6217.0
47.5°	6755.5	6842.7	6817.8	6640.4	6419.3	6481.6	6631.0	6845.8	6783.6	6708.9	6646.6
50°	7328.4	7431.1	7378.2	7200.7	6989.0	6989.0	7172.7	7446.7	7428.0	7281.7	7225.6
52.5°	7963.5	8112.9	8234.3	7982.1	7804.7	7832.7	8122.2	8221.8	8175.1	8072.4	8025.7
55°	8436.7	8723.1	8972.1	8984.6	8993.9	8990.8	9065.5	9165.1	8832.0	8667.0	8498.9
57.5°	8321.5	8863.2	9716.2	10295.2	10466.4	10556.7	10531.8	10071.1	9283.4	8741.7	8797.8
60°	7499.6	8383.7	9759.7	11618.3	12863.6	12739.0	12284.5	10463.3	9034.4	8119.1	8003.9
62.5°	5983.5	7048.2	9028.2	11991.9	15422.6	15385.2	13006.8	9557.4	7527.6	6369.5	6297.9
64°	4507.9	5628.6	8053.7	11895.4	16319.2	16356.5	12823.1	8442.9	5890.1	4507.9	4398.9
65°	3449.4	4489.2	7098.0	11696.1	16126.1	16147.9	12312.5	7291.0	4476.7	3200.3	3082.0
67.5°	1372.9	1911.5	3851.0	8869.4	13847.3	13788.2	8785.3	3527.2	1712.2	1114.5	1092.7
70°	585.3	728.5	1351.1	4202.8	9271.0	9099.8	3782.5	1145.6	635.1	532.3	529.2
72.5°	401.6	445.2	579.0	1298.2	3854.1	3763.8	1077.2	532.3	432.7	398.5	398.5
75°	323.8	354.9	420.3	544.8	1021.1	983.8	507.4	392.3	345.6	320.7	317.5
77.5°	252.2	283.3	330.0	376.7	467.0	463.9	339.3	295.7	267.7	249.1	242.8
80°	199.2	230.4	261.5	267.7	305.1	298.9	230.4	233.5	217.9	180.6	177.4
82.5°	137.0	186.8	208.6	189.9	180.6	180.6	165.0	165.0	152.5	112.1	102.7
85°	84.1	124.5	130.8	112.1	84.1	84.1	90.3	87.2	80.9	59.1	56.0
87.5°	43.6	59.1	52.9	43.6	28.0	28.0	24.9	18.7	18.7	15.6	15.6
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)