

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: P479513

Luminaire Tested: **IFLD-L-SA8B-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479513  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32643.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

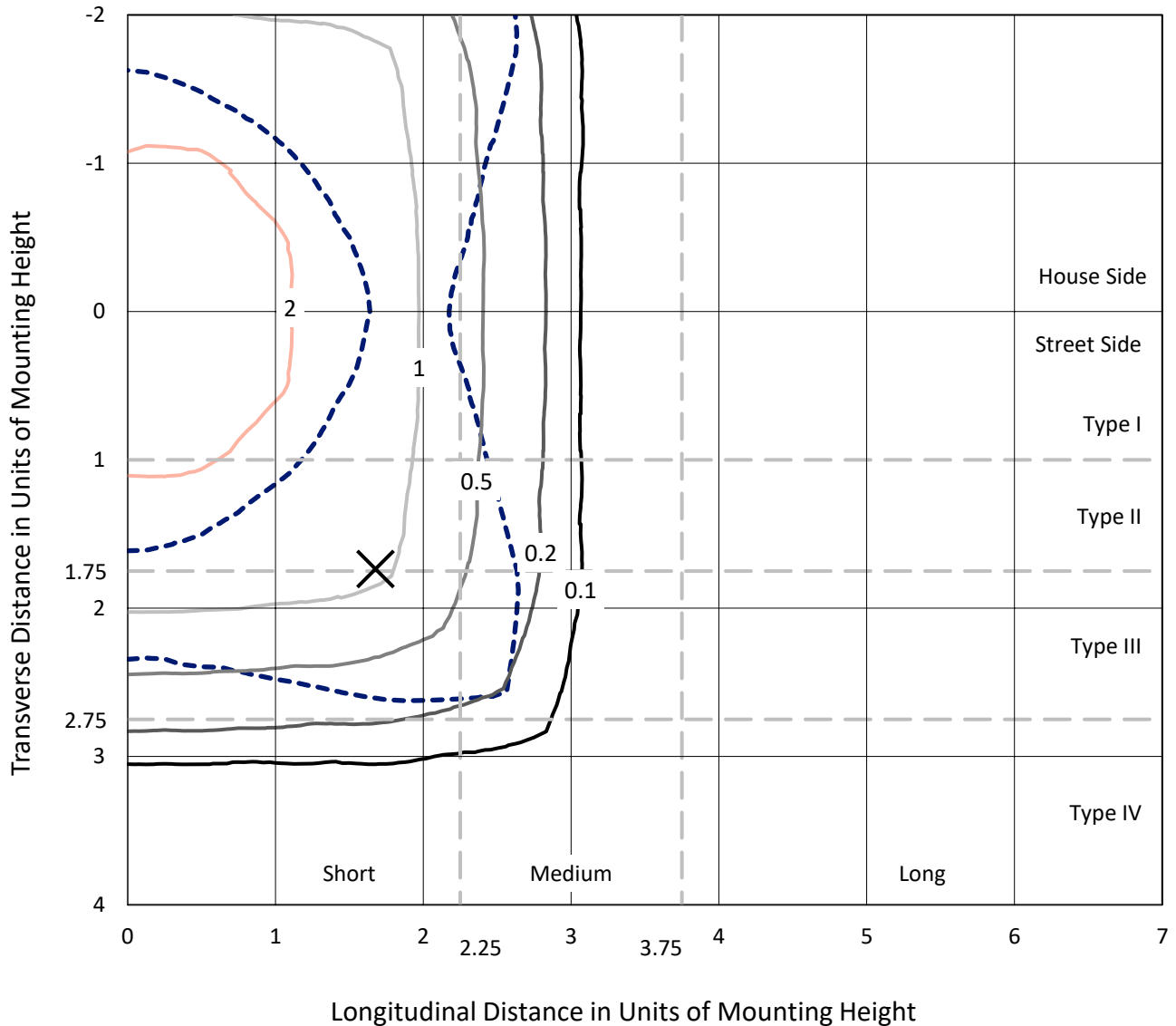
Input Watts (W): 320  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

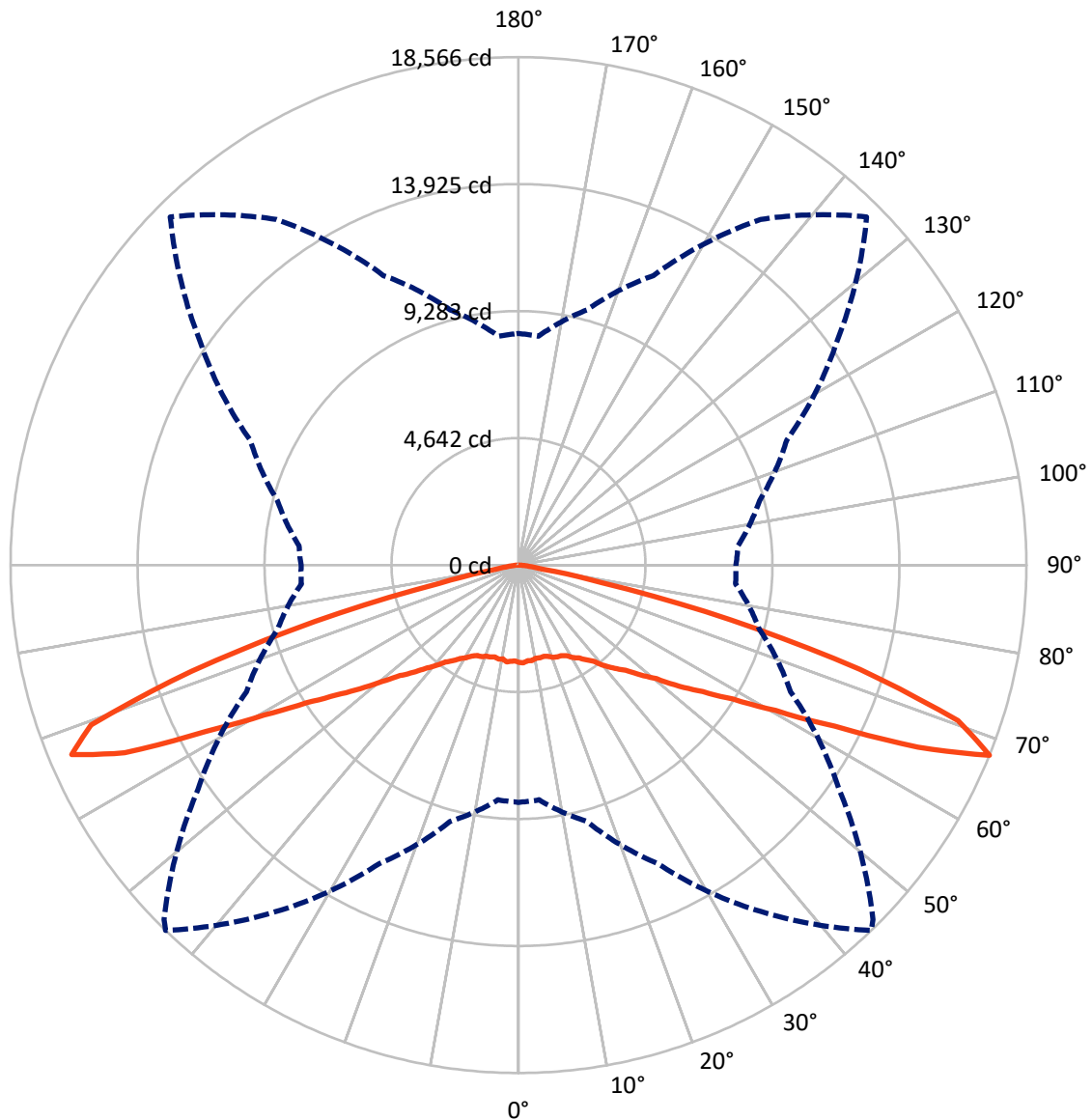
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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	16279.9	0.0	16279.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	16363.5	0.0	16363.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	32643.4	0.0	32643.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.4	1.0
10°-20°	985.8	3.0
20°-30°	1676.4	5.1
30°-40°	2657.9	8.1
40°-50°	4334.0	13.3
50°-60°	7401.9	22.7
60°-70°	11258.2	34.5
70°-80°	3794.7	11.6
80°-90°	197.0	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°	32643.4	100.0
0°-180°	32643.4	100.0

**Coefficient of Utilization**



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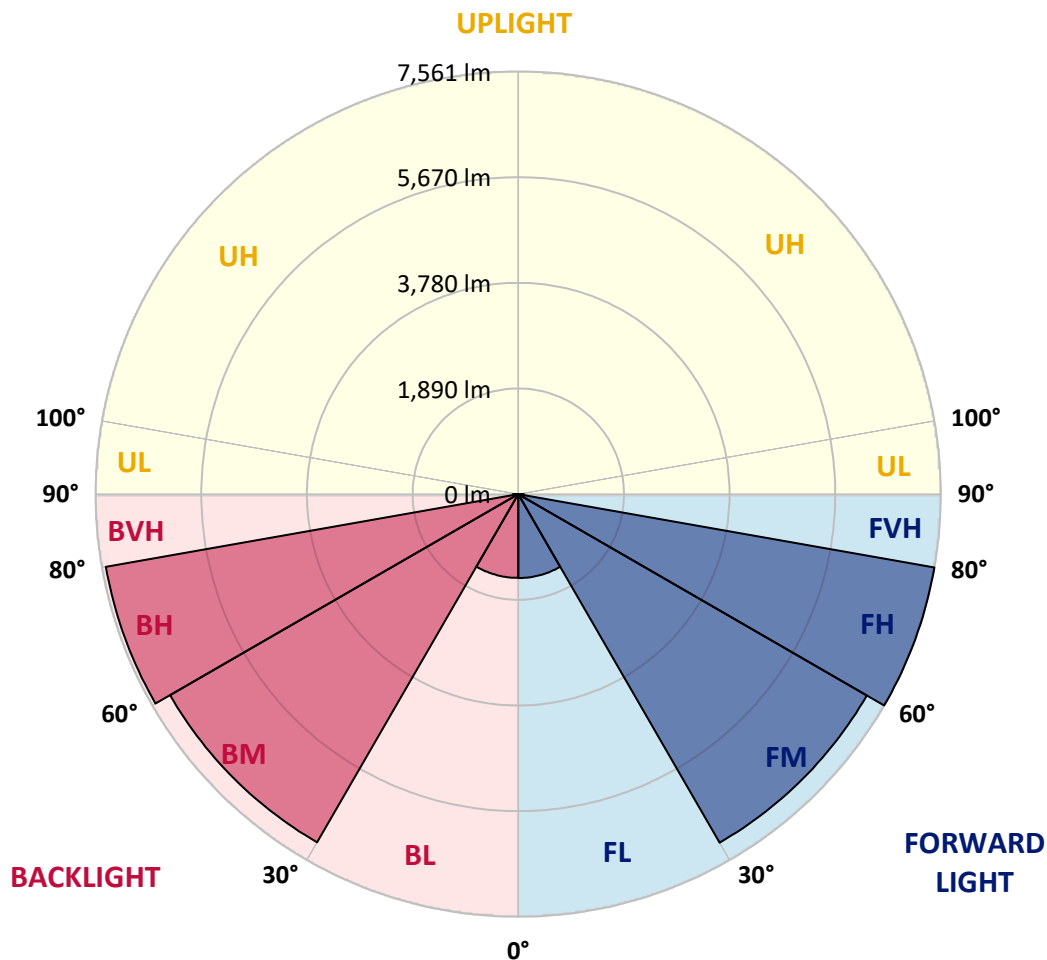
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.3	4.6			
FM (30°-60°)	7200.8	22.1			
FH (60°-80°)	7560.6	23.2			G4/12000
FVH (80°-90°)	100.8	0.3			G2/225
BL (0°-30°)	1498.2	4.6	B3/2500		
BM (30°-60°)	7193.1	22.0	B4/8500		
BH (60°-80°)	7492.4	23.0	B5		G3/7500
BVH (80°-90°)	96.2	0.3			G1/100
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°	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7
2.5°	3483.8	3524.7	3554.6	3550.8	3562.0	3573.2	3558.3	3580.6	3565.7	3591.8	3606.7
5°	3550.8	3539.7	3543.4	3521.0	3573.2	3513.6	3513.6	3543.4	3580.6	3535.9	3562.0
7.5°	3509.8	3502.4	3483.8	3517.3	3528.5	3528.5	3558.3	3502.4	3565.7	3580.6	3584.4
10°	3465.1	3424.1	3480.0	3513.6	3521.0	3461.4	3487.5	3502.4	3483.8	3502.4	3513.6
12.5°	3427.9	3450.2	3450.2	3450.2	3439.1	3480.0	3506.1	3502.4	3465.1	3498.7	3439.1
15°	3424.1	3413.0	3446.5	3476.3	3457.7	3465.1	3476.3	3509.8	3439.1	3454.0	3454.0
17.5°	3420.4	3435.3	3446.5	3442.8	3506.1	3506.1	3494.9	3472.6	3528.5	3498.7	3457.7
20°	3435.3	3424.1	3454.0	3465.1	3509.8	3599.3	3565.7	3547.1	3517.3	3480.0	3480.0
22.5°	3454.0	3446.5	3487.5	3535.9	3621.6	3644.0	3640.3	3617.9	3565.7	3521.0	3513.6
25°	3521.0	3454.0	3498.7	3591.8	3621.6	3666.3	3696.1	3666.3	3595.5	3606.7	3539.7
27.5°	3621.6	3610.4	3670.1	3733.4	3707.3	3748.3	3722.2	3744.6	3748.3	3692.4	3625.3
30°	3740.9	3707.3	3744.6	3867.5	3878.7	3923.4	3878.7	3819.1	3837.7	3789.3	3755.8
32.5°	3912.2	3901.1	3971.9	4053.8	4068.7	4046.4	4024.0	4057.6	3979.3	3942.1	3882.4
35°	4024.0	4072.5	4158.2	4221.5	4269.9	4247.6	4258.8	4225.2	4243.9	4165.6	4139.5
37.5°	4355.6	4337.0	4355.6	4463.7	4474.9	4463.7	4474.9	4512.1	4486.0	4419.0	4351.9
40°	4668.6	4638.8	4683.5	4806.5	4799.0	4836.3	4761.8	4802.7	4802.7	4676.1	4650.0
42.5°	4903.3	5003.9	5056.1	5156.7	5194.0	5160.4	5145.5	5153.0	5235.0	5085.9	5030.0
45°	5387.7	5384.0	5540.5	5596.4	5492.0	5484.6	5454.8	5544.2	5600.1	5514.4	5492.0
47.5°	5913.1	5939.2	6028.6	6050.9	6114.3	5998.8	5998.8	6010.0	6207.4	6006.2	5901.9
50°	6386.3	6419.8	6598.7	6773.8	6654.5	6531.6	6580.0	6639.6	6747.7	6557.7	6468.2
52.5°	6960.1	7142.6	7261.9	7355.0	7440.7	7355.0	7243.2	7310.3	7522.7	7269.3	7157.5
55°	7787.2	7932.5	8044.3	8215.7	8286.5	8171.0	8159.8	8152.4	8271.6	8003.3	7850.6
57.5°	8711.3	8651.7	8830.5	9095.0	9352.1	9240.4	9206.8	9214.3	9244.1	8864.0	8748.5
60°	9858.9	9925.9	10138.3	10369.3	10641.3	10797.8	10578.0	10451.3	10477.4	9959.5	9780.6
62.5°	10514.6	10663.7	11144.3	11937.9	12485.7	12973.8	13007.3	12183.9	11632.4	10626.4	9866.3
65°	10197.9	10175.6	11081.0	12549.0	14624.4	16043.9	15831.6	13834.4	11908.1	10309.7	9288.8
67.5°	8674.0	8614.4	9709.8	12038.5	15466.4	18566.4	18324.2	14300.2	10976.6	9121.1	7966.1
70°	5588.9	5574.0	6762.6	9177.0	13808.4	17046.2	17135.6	12988.7	8934.8	6680.6	5536.8
72.5°	2030.6	2153.6	2842.9	4933.2	9378.2	13040.8	13096.7	9616.7	5138.1	3088.8	2276.6
75°	748.9	771.3	898.0	1602.2	4273.7	8007.1	8215.7	4664.9	1825.7	1006.0	819.7
77.5°	432.2	435.9	480.6	596.2	1266.8	3126.1	3252.8	1415.9	707.9	536.5	495.6
80°	294.3	290.6	339.1	387.5	506.7	886.8	942.7	592.4	447.1	372.6	313.0
82.5°	171.4	182.6	249.6	275.7	309.3	391.2	398.7	368.9	335.3	275.7	204.9
85°	104.3	85.7	137.9	152.8	178.8	175.1	175.1	201.2	216.1	193.7	115.5
87.5°	26.1	26.1	33.5	37.3	48.4	37.3	41.0	78.2	104.3	96.9	59.6
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°	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7	3565.7
2.5°	3573.2	3562.0	3569.5	3610.4	3584.4	3506.1	3524.7	3565.7	3532.2	3513.6	3509.8
5°	3558.3	3580.6	3554.6	3562.0	3588.1	3524.7	3535.9	3588.1	3565.7	3573.2	3532.2
7.5°	3562.0	3573.2	3550.8	3517.3	3517.3	3569.5	3539.7	3547.1	3513.6	3569.5	3494.9
10°	3539.7	3509.8	3483.8	3502.4	3494.9	3480.0	3468.9	3491.2	3457.7	3506.1	3454.0
12.5°	3472.6	3480.0	3472.6	3465.1	3480.0	3517.3	3457.7	3465.1	3413.0	3420.4	3446.5
15°	3446.5	3468.9	3461.4	3502.4	3521.0	3465.1	3509.8	3465.1	3424.1	3401.8	3442.8
17.5°	3457.7	3491.2	3480.0	3509.8	3476.3	3517.3	3524.7	3506.1	3457.7	3439.1	3457.7
20°	3468.9	3457.7	3472.6	3524.7	3573.2	3532.2	3532.2	3521.0	3476.3	3450.2	3450.2
22.5°	3494.9	3476.3	3498.7	3539.7	3554.6	3617.9	3562.0	3535.9	3461.4	3394.3	3457.7
25°	3547.1	3558.3	3573.2	3558.3	3640.3	3632.8	3625.3	3606.7	3491.2	3494.9	3483.8
27.5°	3647.7	3584.4	3603.0	3692.4	3703.6	3733.4	3696.1	3729.7	3606.7	3610.4	3535.9
30°	3770.7	3703.6	3763.2	3841.5	3837.7	3893.6	3875.0	3882.4	3796.7	3748.3	3647.7
32.5°	3904.8	3897.3	3934.6	3983.0	4001.7	4031.5	4027.8	4027.8	3975.6	3848.9	3867.5
35°	4053.8	4106.0	4150.7	4202.9	4210.3	4247.6	4195.4	4202.9	4150.7	4057.6	4087.4
37.5°	4348.2	4344.5	4392.9	4456.2	4463.7	4433.9	4474.9	4456.2	4385.4	4322.1	4273.7
40°	4691.0	4616.5	4661.2	4810.2	4821.4	4769.2	4765.5	4761.8	4709.6	4571.7	4541.9
42.5°	4989.0	5085.9	5078.5	5126.9	5093.4	5067.3	5160.4	5108.3	5067.3	4922.0	4895.9
45°	5372.8	5402.6	5499.5	5656.0	5495.8	5495.8	5559.1	5518.1	5495.8	5387.7	5287.1
47.5°	5849.7	5875.8	6069.6	6080.7	5976.4	5905.6	6103.1	6110.6	6017.4	5935.4	5812.5
50°	6408.6	6419.8	6594.9	6773.8	6658.3	6524.1	6725.3	6803.6	6594.9	6483.2	6330.4
52.5°	7023.4	6989.9	7135.2	7470.5	7358.7	7317.8	7533.9	7552.5	7269.3	7094.2	7135.2
55°	7731.3	7686.6	8081.6	8308.9	8238.1	8163.6	8260.4	8305.1	8077.9	7791.0	7891.6
57.5°	8647.9	8670.3	8867.8	9091.3	9206.8	9225.5	9270.2	9225.5	8994.4	8703.8	8610.7
60°	9564.5	9631.6	10015.4	10436.4	10473.6	10801.5	10741.9	10518.4	10190.5	9776.9	9795.5
62.5°	9903.6	9847.7	10466.2	11494.6	12370.2	12970.0	12705.5	11911.9	11151.8	10399.1	10455.0
65°	9221.7	9359.6	10201.6	11811.3	13711.5	16084.9	14676.5	12481.9	10946.8	9974.4	9866.3
67.5°	7947.4	8051.8	9121.1	10820.2	14192.1	18000.1	15421.7	11677.1	9653.9	8394.6	8461.6
70°	5536.8	5588.9	6635.9	8864.0	12869.4	16986.6	13912.7	8968.4	6665.7	5313.2	5387.7
72.5°	2228.1	2354.8	3044.1	5339.3	9501.2	12906.7	9367.0	4705.9	2764.7	2056.7	1866.7
75°	823.4	827.2	972.5	1836.9	4512.1	8111.4	4225.2	1512.7	883.0	722.8	689.3
77.5°	476.9	473.2	506.7	663.2	1307.8	3167.1	1199.8	592.4	480.6	432.2	413.6
80°	298.1	294.3	346.5	439.7	573.8	868.1	506.7	368.9	324.2	279.4	279.4
82.5°	190.0	193.7	272.0	324.2	350.2	383.8	294.3	260.8	242.2	160.2	156.5
85°	123.0	111.8	190.0	216.1	193.7	171.4	163.9	137.9	126.7	78.2	85.7
87.5°	55.9	59.6	96.9	108.1	70.8	41.0	41.0	29.8	29.8	18.6	18.6
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)