

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: P479187

Luminaire Tested: **IFLD-S-SA6C-722-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479187
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

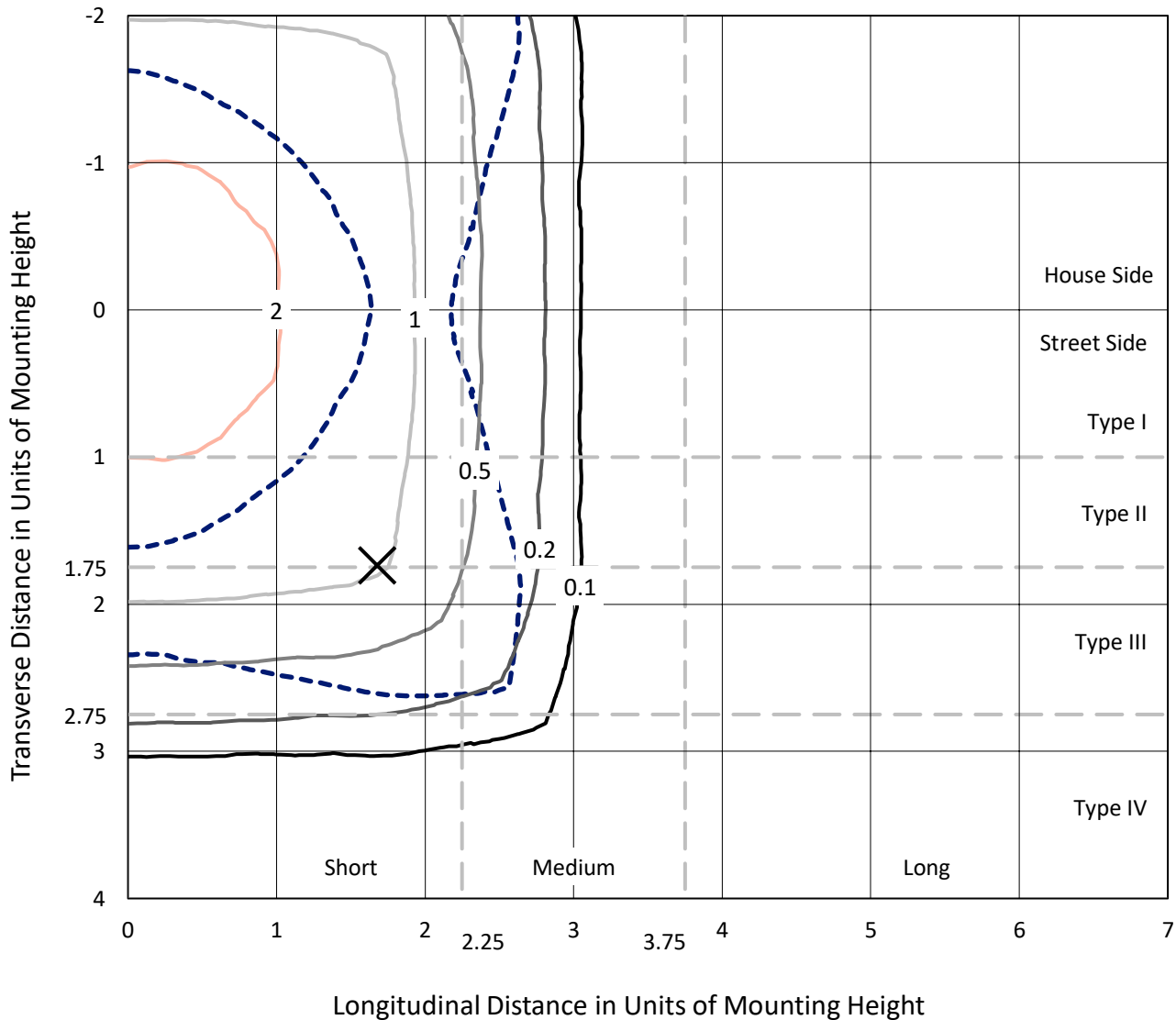
Lumens per Lamp: N/A
Luminaire Lumens: 30895.1 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5
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

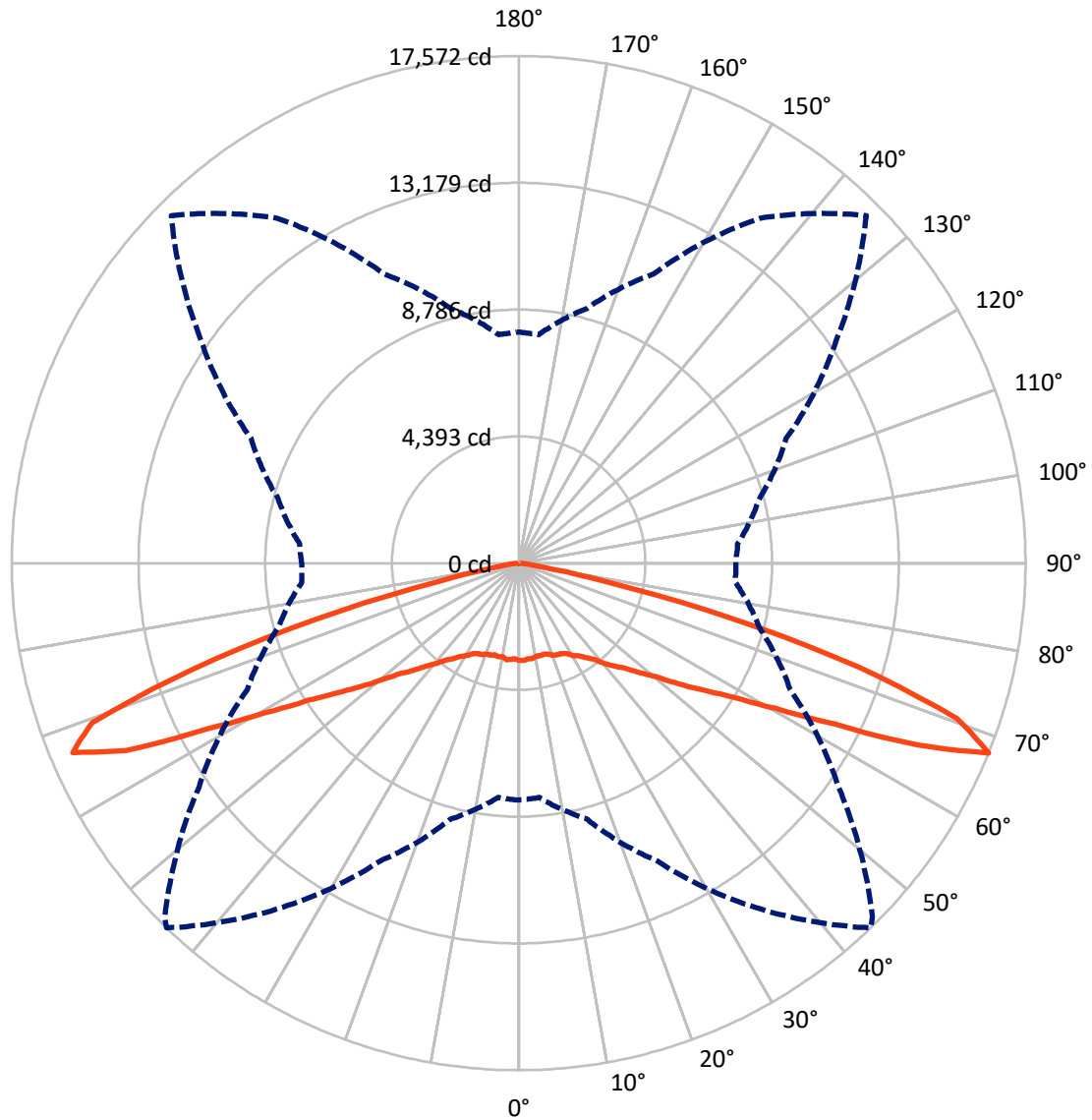
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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
House Side	Lumens	15408.0	0.0	15408.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	15487.1	0.0	15487.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	30895.1	0.0	30895.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	1.0
10°-20°	933.0	3.0
20°-30°	1586.6	5.1
30°-40°	2515.6	8.1
40°-50°	4101.9	13.3
50°-60°	7005.5	22.7
60°-70°	10655.2	34.5
70°-80°	3591.5	11.6
80°-90°	186.5	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°	30895.1	100.0
0°-180°	30895.1	100.0

Coefficient of Utilization



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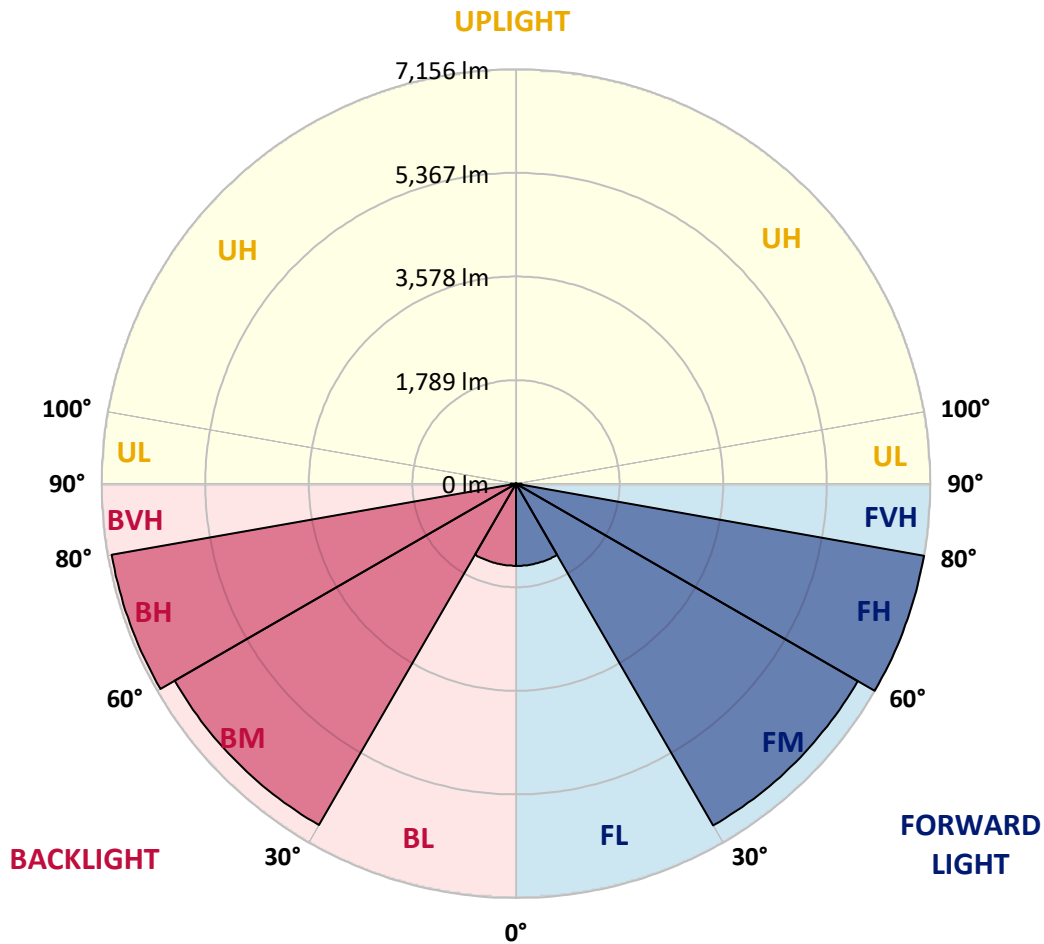
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.9	4.6			
FM (30°-60°)	6815.2	22.1			
FH (60°-80°)	7155.6	23.2			G3/7500
FVH (80°-90°)	95.4	0.3			G1/100
BL (0°-30°)	1418.0	4.6	B3/2500		
BM (30°-60°)	6807.8	22.0	B4/8500		
BH (60°-80°)	7091.1	23.0	B5		G3/7500
BVH (80°-90°)	91.1	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8
2.5°	3297.2	3336.0	3364.2	3360.6	3371.2	3381.8	3367.7	3388.9	3374.8	3399.4	3413.5
5°	3360.6	3350.1	3353.6	3332.4	3381.8	3325.4	3325.4	3353.6	3388.9	3346.5	3371.2
7.5°	3321.9	3314.8	3297.2	3328.9	3339.5	3339.5	3367.7	3314.8	3374.8	3388.9	3392.4
10°	3279.5	3240.7	3293.6	3325.4	3332.4	3276.0	3300.7	3314.8	3297.2	3314.8	3325.4
12.5°	3244.3	3265.4	3265.4	3265.4	3254.9	3293.6	3318.3	3314.8	3279.5	3311.3	3254.9
15°	3240.7	3230.2	3261.9	3290.1	3272.5	3279.5	3290.1	3321.9	3254.9	3269.0	3269.0
17.5°	3237.2	3251.3	3261.9	3258.4	3318.3	3318.3	3307.7	3286.6	3339.5	3311.3	3272.5
20°	3251.3	3240.7	3269.0	3279.5	3321.9	3406.5	3374.8	3357.1	3328.9	3293.6	3293.6
22.5°	3269.0	3261.9	3300.7	3346.5	3427.6	3448.8	3445.3	3424.1	3374.8	3332.4	3325.4
25°	3332.4	3269.0	3311.3	3399.4	3427.6	3470.0	3498.2	3470.0	3403.0	3413.5	3350.1
27.5°	3427.6	3417.1	3473.5	3533.4	3508.8	3547.5	3522.9	3544.0	3547.5	3494.6	3431.2
30°	3540.5	3508.8	3544.0	3660.4	3671.0	3713.3	3671.0	3614.5	3632.2	3586.3	3554.6
32.5°	3702.7	3692.1	3759.1	3836.7	3850.8	3829.7	3808.5	3840.2	3766.2	3730.9	3674.5
35°	3808.5	3854.3	3935.4	3995.4	4041.2	4020.1	4030.7	3998.9	4016.6	3942.5	3917.8
37.5°	4122.3	4104.7	4122.3	4224.6	4235.2	4224.6	4235.2	4270.5	4245.8	4182.3	4118.8
40°	4418.6	4390.3	4432.7	4549.0	4542.0	4577.2	4506.7	4545.5	4545.5	4425.6	4400.9
42.5°	4640.7	4735.9	4785.3	4880.5	4915.8	4884.0	4869.9	4877.0	4954.6	4813.5	4760.6
45°	5099.2	5095.6	5243.7	5296.6	5197.9	5190.8	5162.6	5247.3	5300.2	5219.1	5197.9
47.5°	5596.4	5621.1	5705.7	5726.8	5786.8	5677.5	5677.5	5688.1	5875.0	5684.5	5585.8
50°	6044.2	6076.0	6245.2	6411.0	6298.1	6181.8	6227.6	6284.0	6386.3	6206.4	6121.8
52.5°	6587.3	6760.1	6872.9	6961.1	7042.2	6961.1	6855.3	6918.8	7119.8	6880.0	6774.2
55°	7370.1	7507.7	7613.5	7775.7	7842.7	7733.4	7722.8	7715.7	7828.6	7574.7	7430.1
57.5°	8244.7	8188.3	8357.5	8607.9	8851.2	8745.4	8713.7	8720.8	8749.0	8389.3	8280.0
60°	9330.8	9394.3	9595.3	9813.9	10071.4	10219.5	10011.4	9891.5	9916.2	9426.0	9256.8
62.5°	9951.5	10092.5	10547.4	11298.5	11816.9	12278.9	12310.6	11531.3	11009.4	10057.3	9337.9
65°	9651.7	9630.6	10487.5	11876.9	13841.1	15184.6	14983.6	13093.5	11270.3	9757.5	8791.3
67.5°	8209.4	8153.0	9189.8	11393.8	14638.0	17572.0	17342.8	13534.3	10388.7	8632.6	7539.4
70°	5289.6	5275.5	6400.4	8685.5	13068.8	16133.2	16217.8	12293.0	8456.3	6322.8	5240.2
72.5°	1921.9	2038.3	2690.6	4668.9	8875.9	12342.3	12395.2	9101.6	4862.9	2923.4	2154.6
75°	708.8	730.0	849.9	1516.3	4044.8	7578.2	7775.7	4415.0	1727.9	952.1	775.8
77.5°	409.1	412.6	454.9	564.2	1199.0	2958.6	3078.5	1340.0	670.0	507.8	469.0
80°	278.6	275.1	320.9	366.7	479.6	839.3	892.2	560.7	423.2	352.6	296.2
82.5°	162.2	172.8	236.3	261.0	292.7	370.3	377.3	349.1	317.4	261.0	194.0
85°	98.7	81.1	130.5	144.6	169.3	165.7	165.7	190.4	204.5	183.4	109.3
87.5°	24.7	24.7	31.7	35.3	45.8	35.3	38.8	74.1	98.7	91.7	56.4
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°	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8	3374.8
2.5°	3381.8	3371.2	3378.3	3417.1	3392.4	3318.3	3336.0	3374.8	3343.0	3325.4	3321.9
5°	3367.7	3388.9	3364.2	3371.2	3395.9	3336.0	3346.5	3395.9	3374.8	3381.8	3343.0
7.5°	3371.2	3381.8	3360.6	3328.9	3328.9	3378.3	3350.1	3357.1	3325.4	3378.3	3307.7
10°	3350.1	3321.9	3297.2	3314.8	3307.7	3293.6	3283.1	3304.2	3272.5	3318.3	3269.0
12.5°	3286.6	3293.6	3286.6	3279.5	3293.6	3328.9	3272.5	3279.5	3230.2	3237.2	3261.9
15°	3261.9	3283.1	3276.0	3314.8	3332.4	3279.5	3321.9	3279.5	3240.7	3219.6	3258.4
17.5°	3272.5	3304.2	3293.6	3321.9	3290.1	3328.9	3336.0	3318.3	3272.5	3254.9	3272.5
20°	3283.1	3272.5	3286.6	3336.0	3381.8	3343.0	3343.0	3332.4	3290.1	3265.4	3265.4
22.5°	3307.7	3290.1	3311.3	3350.1	3364.2	3424.1	3371.2	3346.5	3276.0	3212.5	3272.5
25°	3357.1	3367.7	3381.8	3367.7	3445.3	3438.2	3431.2	3413.5	3304.2	3307.7	3297.2
27.5°	3452.3	3392.4	3410.0	3494.6	3505.2	3533.4	3498.2	3529.9	3413.5	3417.1	3346.5
30°	3568.7	3505.2	3561.6	3635.7	3632.2	3685.1	3667.4	3674.5	3593.4	3547.5	3452.3
32.5°	3695.7	3688.6	3723.9	3769.7	3787.3	3815.5	3812.0	3812.0	3762.7	3642.8	3660.4
35°	3836.7	3886.1	3928.4	3977.8	3984.8	4020.1	3970.7	3977.8	3928.4	3840.2	3868.4
37.5°	4115.3	4111.8	4157.6	4217.6	4224.6	4196.4	4235.2	4217.6	4150.6	4090.6	4044.8
40°	4439.7	4369.2	4411.5	4552.6	4563.1	4513.8	4510.2	4506.7	4457.4	4326.9	4298.7
42.5°	4721.8	4813.5	4806.5	4852.3	4820.6	4795.9	4884.0	4834.7	4795.9	4658.4	4633.7
45°	5085.0	5113.3	5204.9	5353.1	5201.4	5201.4	5261.4	5222.6	5201.4	5099.2	5003.9
47.5°	5536.4	5561.1	5744.5	5755.1	5656.3	5589.3	5776.2	5783.3	5695.1	5617.5	5501.2
50°	6065.4	6076.0	6241.7	6411.0	6301.7	6174.7	6365.1	6439.2	6241.7	6135.9	5991.3
52.5°	6647.2	6615.5	6753.0	7070.4	6964.6	6925.8	7130.4	7148.0	6880.0	6714.2	6753.0
55°	7317.2	7274.9	7648.7	7863.8	7796.8	7726.3	7818.0	7860.3	7645.2	7373.7	7468.9
57.5°	8184.7	8205.9	8392.8	8604.4	8713.7	8731.3	8773.6	8731.3	8512.7	8237.6	8149.5
60°	9052.2	9115.7	9478.9	9877.4	9912.7	10223.0	10166.6	9955.0	9644.7	9253.2	9270.9
62.5°	9373.1	9320.2	9905.6	10878.9	11707.6	12275.3	12025.0	11273.9	10554.5	9842.1	9895.0
65°	8727.8	8858.3	9655.2	11178.6	12977.1	15223.4	13890.4	11813.4	10360.5	9440.1	9337.9
67.5°	7521.8	7620.5	8632.6	10240.6	13432.0	17036.0	14595.7	11051.7	9136.9	7944.9	8008.4
70°	5240.2	5289.6	6280.5	8389.3	12180.1	16076.8	13167.5	8488.0	6308.7	5028.6	5099.2
72.5°	2108.8	2228.7	2881.1	5053.3	8992.3	12215.4	8865.3	4453.8	2616.6	1946.6	1766.7
75°	779.3	782.9	920.4	1738.5	4270.5	7676.9	3998.9	1431.7	835.8	684.1	652.4
77.5°	451.4	447.9	479.6	627.7	1237.8	2997.4	1135.5	560.7	454.9	409.1	391.4
80°	282.1	278.6	328.0	416.1	543.1	821.6	479.6	349.1	306.8	264.5	264.5
82.5°	179.8	183.4	257.4	306.8	331.5	363.2	278.6	246.8	229.2	151.6	148.1
85°	116.4	105.8	179.8	204.5	183.4	162.2	155.2	130.5	119.9	74.1	81.1
87.5°	52.9	56.4	91.7	102.3	67.0	38.8	38.8	28.2	28.2	17.6	17.6
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)