

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: P299858

Luminaire Tested: **GAA-AF-08-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-08-LED-U-5WQ-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48433.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

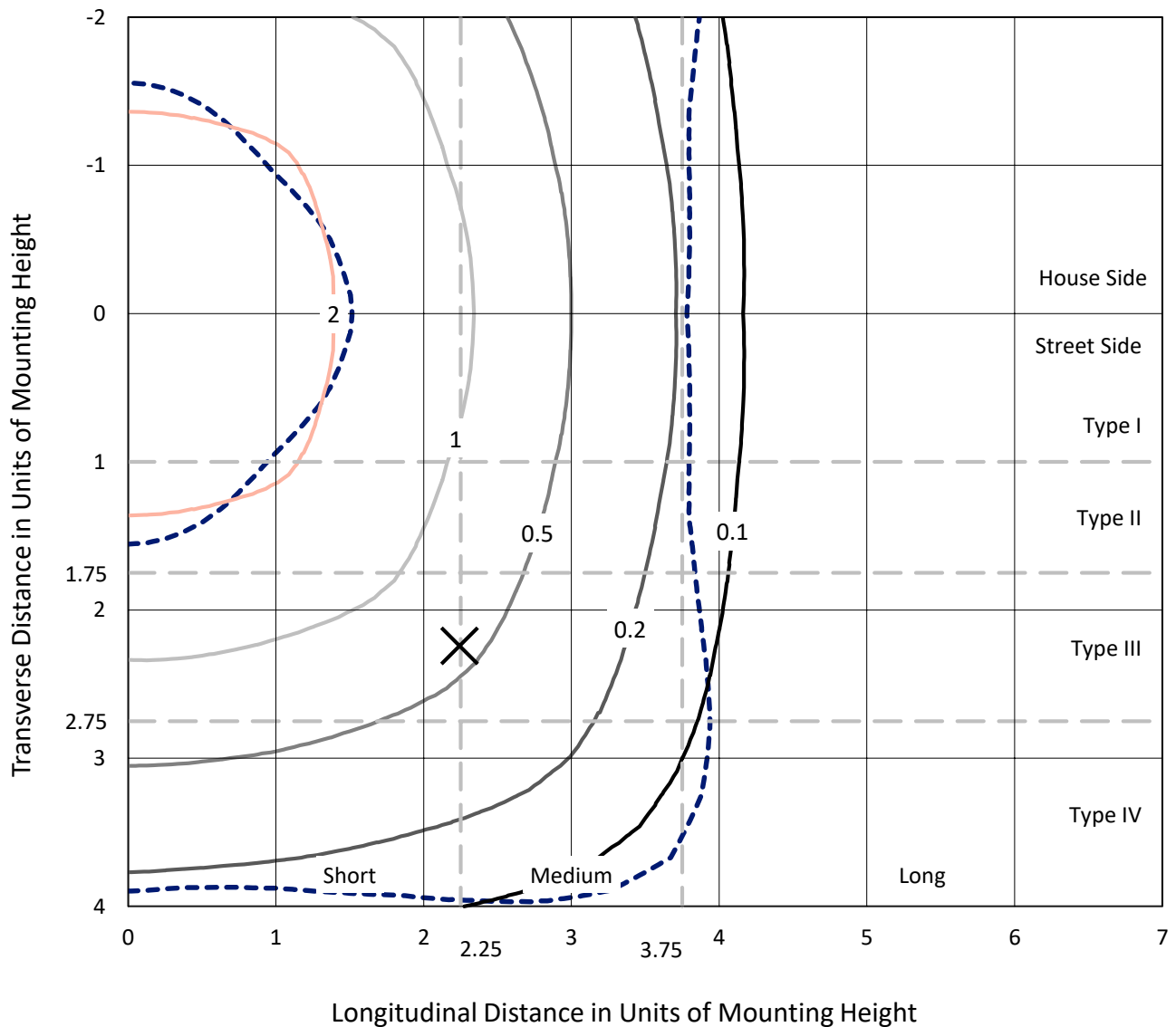
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

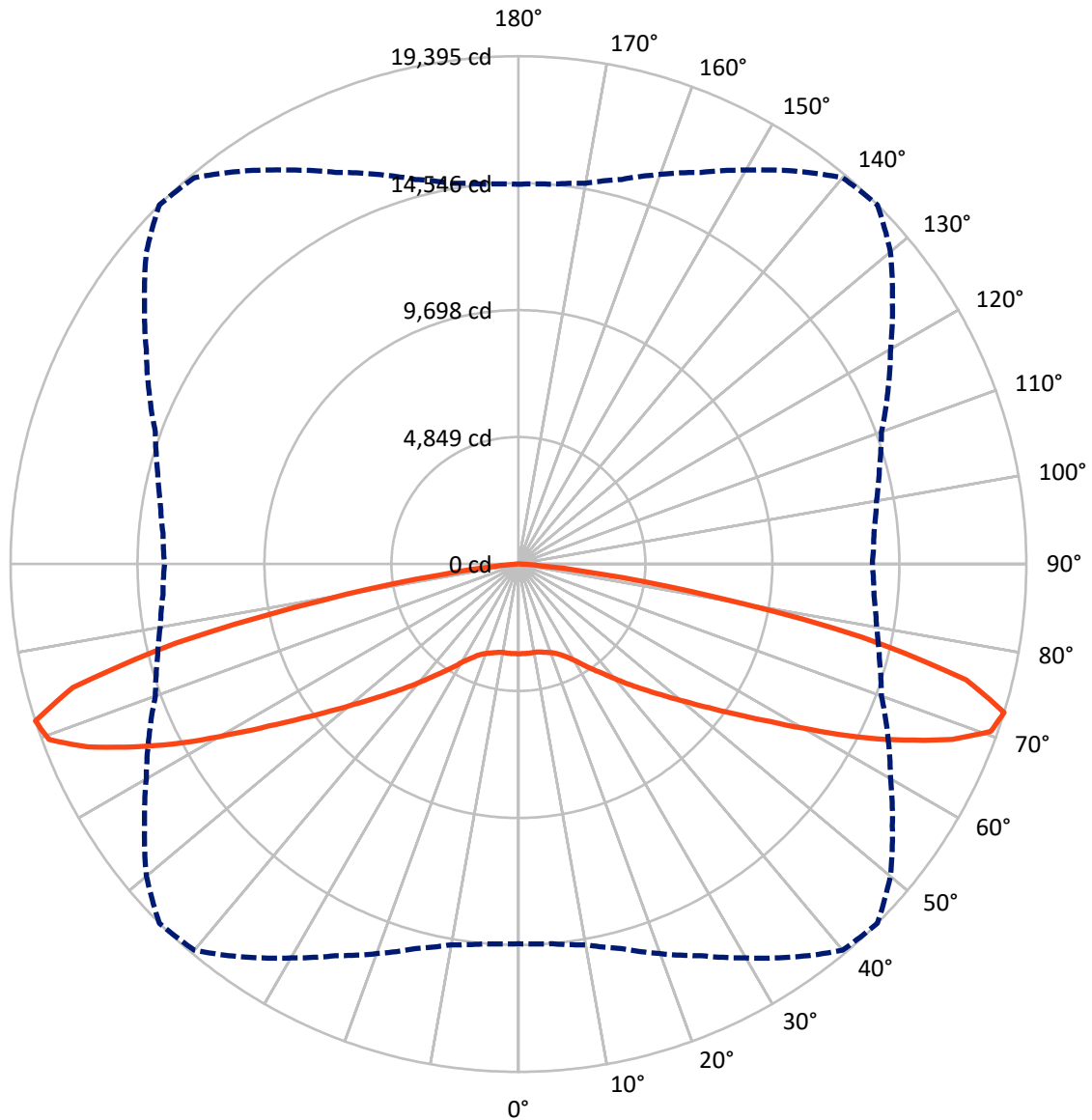


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24217.0	0.0	24217.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24217.0	0.0	24217.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48433.9	0.0	48433.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	0.7
10°-20°	994.7	2.1
20°-30°	1817.7	3.8
30°-40°	3134.1	6.5
40°-50°	5357.6	11.1
50°-60°	8684.0	17.9
60°-70°	14406.5	29.7
70°-80°	12688.7	26.2
80°-90°	1023.1	2.1
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°	48433.9	100.0
0°-180°	48433.9	100.0



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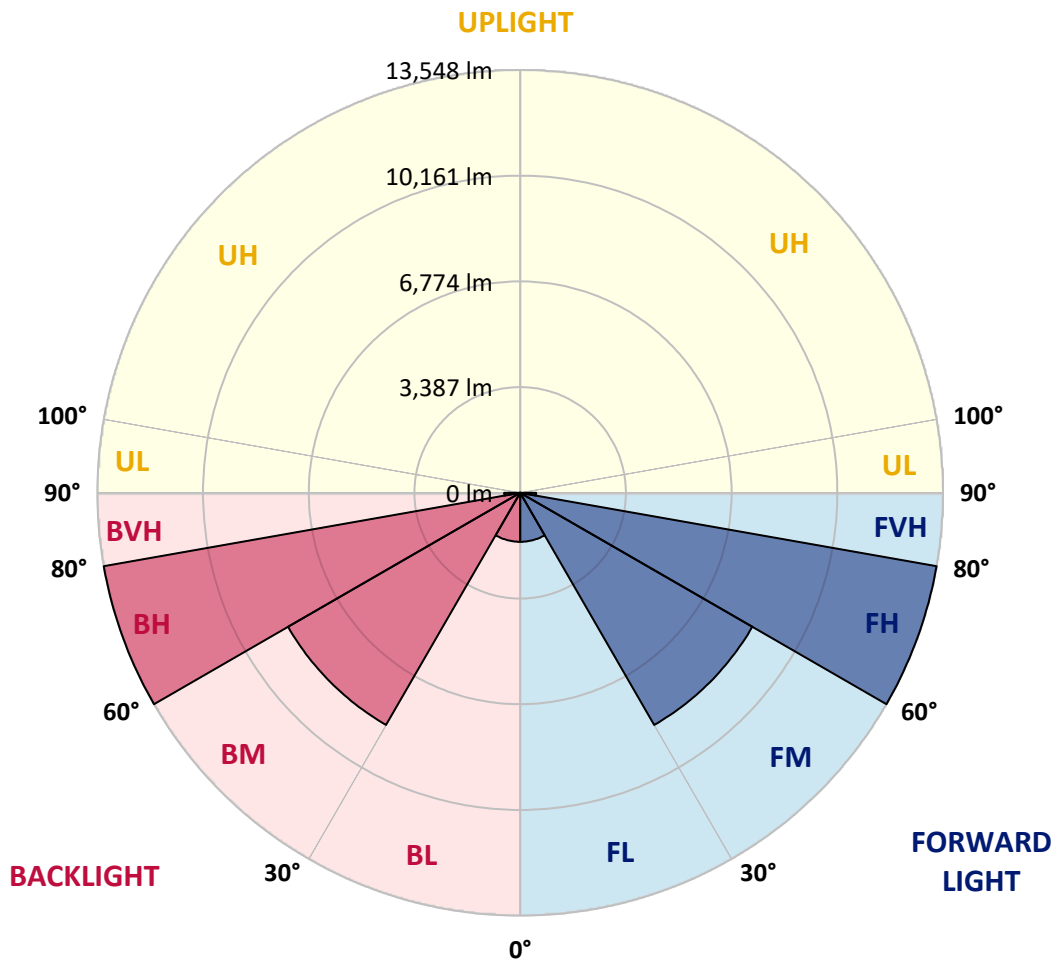
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.0	3.2			
FM	(30°-60°)	8587.9	17.7			
FH	(60°-80°)	13547.6	28.0			G5
FVH	(80°-90°)	511.5	1.1			G4/750
BL	(0°-30°)	1570.0	3.2	B3/2500		
BM	(30°-60°)	8587.9	17.7	B5		
BH	(60°-80°)	13547.6	28.0	B5		G5
BVH	(80°-90°)	511.5	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9
2.5°	3429.9	3432.1	3434.3	3432.1	3432.1	3429.9	3427.7	3429.9	3427.7	3423.2	3425.4
5°	3441.0	3445.4	3445.4	3441.0	3443.2	3441.0	3436.5	3438.8	3434.3	3427.7	3427.7
7.5°	3454.3	3456.5	3456.5	3452.1	3454.3	3449.9	3445.4	3443.2	3438.8	3429.9	3423.2
10°	3474.3	3476.5	3474.3	3469.9	3469.9	3463.2	3452.1	3447.6	3438.8	3425.4	3418.8
12.5°	3496.5	3498.7	3496.5	3492.1	3489.9	3478.7	3469.9	3463.2	3456.5	3445.4	3434.3
15°	3527.6	3532.1	3527.6	3518.7	3512.1	3503.2	3498.7	3501.0	3503.2	3494.3	3483.2
17.5°	3585.4	3587.6	3580.9	3560.9	3552.1	3543.2	3543.2	3547.6	3554.3	3549.8	3538.7
20°	3692.0	3685.3	3669.8	3645.4	3634.2	3618.7	3616.5	3618.7	3618.7	3616.5	3607.6
22.5°	3825.3	3820.8	3800.9	3769.8	3754.2	3745.3	3732.0	3720.9	3718.7	3712.0	3703.1
25°	3985.2	3983.0	3958.6	3931.9	3920.8	3909.7	3898.6	3883.0	3869.7	3854.2	3845.3
27.5°	4189.6	4180.7	4145.2	4131.8	4116.3	4109.6	4094.1	4076.3	4065.2	4045.2	4034.1
30°	4414.0	4414.0	4385.1	4380.6	4380.6	4365.1	4347.3	4316.2	4296.2	4276.2	4269.6
32.5°	4638.3	4640.5	4611.7	4620.6	4627.2	4638.3	4642.8	4631.7	4618.3	4616.1	4602.8
35°	4962.7	4953.8	4924.9	4931.6	4929.3	4927.1	4927.1	4951.5	4956.0	4960.4	4933.8
37.5°	5364.7	5364.7	5335.9	5335.9	5322.5	5309.2	5291.4	5307.0	5331.4	5338.1	5320.3
40°	5824.6	5840.1	5804.6	5802.4	5806.8	5764.6	5744.6	5769.0	5784.6	5811.2	5791.2
42.5°	6366.6	6355.5	6319.9	6315.5	6291.1	6277.7	6260.0	6280.0	6304.4	6322.2	6328.8
45°	6886.4	6877.5	6837.5	6837.5	6813.1	6802.0	6810.9	6844.2	6855.3	6879.7	6904.2
47.5°	7399.6	7388.4	7361.8	7372.9	7375.1	7395.1	7424.0	7455.1	7486.2	7519.5	7530.6
50°	7923.8	7926.0	7897.2	7923.8	7957.1	8012.7	8090.4	8141.5	8205.9	8248.1	8261.5
52.5°	8401.4	8410.3	8441.4	8503.6	8570.2	8679.1	8812.4	8936.8	9043.4	9114.5	9110.0
55°	8974.5	8987.9	9063.4	9170.0	9278.9	9443.3	9641.0	9860.9	10038.6	10140.8	10076.4
57.5°	9707.6	9736.5	9820.9	9965.3	10127.5	10340.7	10611.7	10942.7	11218.2	11355.9	11251.5
60°	10713.9	10731.7	10833.9	10993.8	11189.3	11453.6	11815.7	12260.0	12648.8	12830.9	12711.0
62.5°	12040.1	12073.4	12155.6	12317.8	12517.7	12817.6	13259.7	13815.0	14299.3	14552.5	14281.5
65°	13624.0	13730.6	13799.5	13963.9	14150.5	14468.1	14930.2	15525.5	16045.3	16211.9	15898.7
67.5°	15192.3	15285.6	15405.6	15594.4	15783.2	16140.8	16569.6	17147.2	17718.1	17869.1	17382.6
70°	15878.7	15932.0	16118.6	16376.3	16738.4	17160.5	17655.9	18304.5	19010.9	19135.3	18517.8
72.5°	14503.7	14557.0	14765.8	15203.4	15834.3	16505.2	17369.3	18322.3	19255.3	19395.2	18544.4
75°	10969.4	10882.7	11191.5	11771.3	12622.1	13557.3	14765.8	16132.0	17480.4	17655.9	16640.7
77.5°	5669.1	5658.0	5891.2	6610.9	7626.1	8690.2	10020.8	11564.7	12884.2	13417.4	12591.0
80°	1597.2	1615.0	1726.0	2083.7	2676.8	3445.4	4485.0	5931.2	7010.8	7561.7	7099.7
82.5°	626.4	675.3	717.5	784.2	861.9	975.2	1301.8	1937.1	2599.1	3105.5	2543.5
85°	224.4	239.9	339.9	402.1	408.7	431.0	490.9	573.1	690.9	824.1	677.5
87.5°	84.4	93.3	108.8	179.9	177.7	162.2	197.7	206.6	155.5	142.2	175.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9	3429.9
2.5°	3421.0	3423.2	3423.2	3425.4	3427.7	3427.7	3432.1	3432.1
5°	3423.2	3423.2	3418.8	3421.0	3418.8	3418.8	3421.0	3421.0
7.5°	3418.8	3416.5	3412.1	3409.9	3405.4	3405.4	3405.4	3405.4
10°	3412.1	3409.9	3405.4	3403.2	3401.0	3401.0	3401.0	3401.0
12.5°	3429.9	3423.2	3418.8	3416.5	3416.5	3416.5	3416.5	3416.5
15°	3476.5	3461.0	3449.9	3449.9	3452.1	3456.5	3456.5	3461.0
17.5°	3534.3	3516.5	3505.4	3496.5	3501.0	3507.6	3512.1	3516.5
20°	3603.1	3594.3	3578.7	3569.8	3569.8	3578.7	3583.2	3585.4
22.5°	3698.7	3692.0	3685.3	3674.2	3674.2	3678.7	3687.6	3687.6
25°	3840.8	3836.4	3832.0	3823.1	3820.8	3820.8	3825.3	3829.7
27.5°	4018.6	4020.8	4016.3	4014.1	4007.4	4005.2	4011.9	4009.7
30°	4256.2	4267.4	4278.5	4269.6	4258.5	4251.8	4245.1	4236.3
32.5°	4578.3	4565.0	4556.1	4540.6	4520.6	4502.8	4489.5	4473.9
35°	4882.7	4860.5	4851.6	4864.9	4862.7	4851.6	4836.0	4822.7
37.5°	5255.9	5251.4	5255.9	5280.3	5275.9	5287.0	5255.9	5253.7
40°	5726.8	5731.3	5762.4	5791.2	5806.8	5822.3	5804.6	5786.8
42.5°	6273.3	6271.1	6282.2	6322.2	6348.8	6366.6	6328.8	6324.4
45°	6850.9	6835.3	6844.2	6877.5	6904.2	6924.2	6882.0	6882.0
47.5°	7486.2	7459.5	7430.7	7468.4	7484.0	7497.3	7464.0	7452.9
50°	8194.8	8139.3	8077.1	8092.6	8092.6	8088.2	8046.0	8043.8
52.5°	9007.9	8905.7	8792.4	8750.2	8725.7	8699.1	8625.8	8590.2
55°	9943.1	9789.8	9612.1	9503.2	9445.5	9372.2	9250.0	9216.7
57.5°	11036.0	10796.1	10489.6	10356.3	10227.4	10107.5	9972.0	9934.2
60°	12331.1	11977.9	11571.4	11324.8	11184.9	11069.3	10929.4	10922.7
62.5°	13775.0	13217.5	12757.6	12535.5	12433.3	12331.1	12197.8	12215.6
65°	15243.4	14661.4	14230.4	14050.5	13955.0	13870.6	13737.3	13757.3
67.5°	16691.8	16156.4	15683.2	15498.9	15392.2	15285.6	15165.6	15185.6
70°	17731.4	17067.2	16534.0	16125.3	15869.8	15581.0	15394.4	15347.8
72.5°	17433.7	16409.6	15563.3	14752.5	14277.1	13890.5	13628.4	13515.1
75°	15087.9	13688.4	12599.9	11604.7	11044.9	10589.5	10258.5	10051.9
77.5°	11204.8	9632.1	8345.9	7199.6	6293.3	5684.6	5255.9	4978.2
80°	6133.3	4665.0	3409.9	2396.9	1761.6	1463.9	1292.9	1210.7
82.5°	1910.4	1232.9	908.6	784.2	728.6	697.5	646.4	564.2
85°	608.7	533.1	495.4	473.2	450.9	393.2	271.0	246.6
87.5°	235.5	242.1	239.9	226.6	231.0	166.6	133.3	117.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)