

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: McGRAW-EDISON

Report Number: P299930

Luminaire Tested: **GLNA-AF-10-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299930
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-5WQ-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48325.5 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

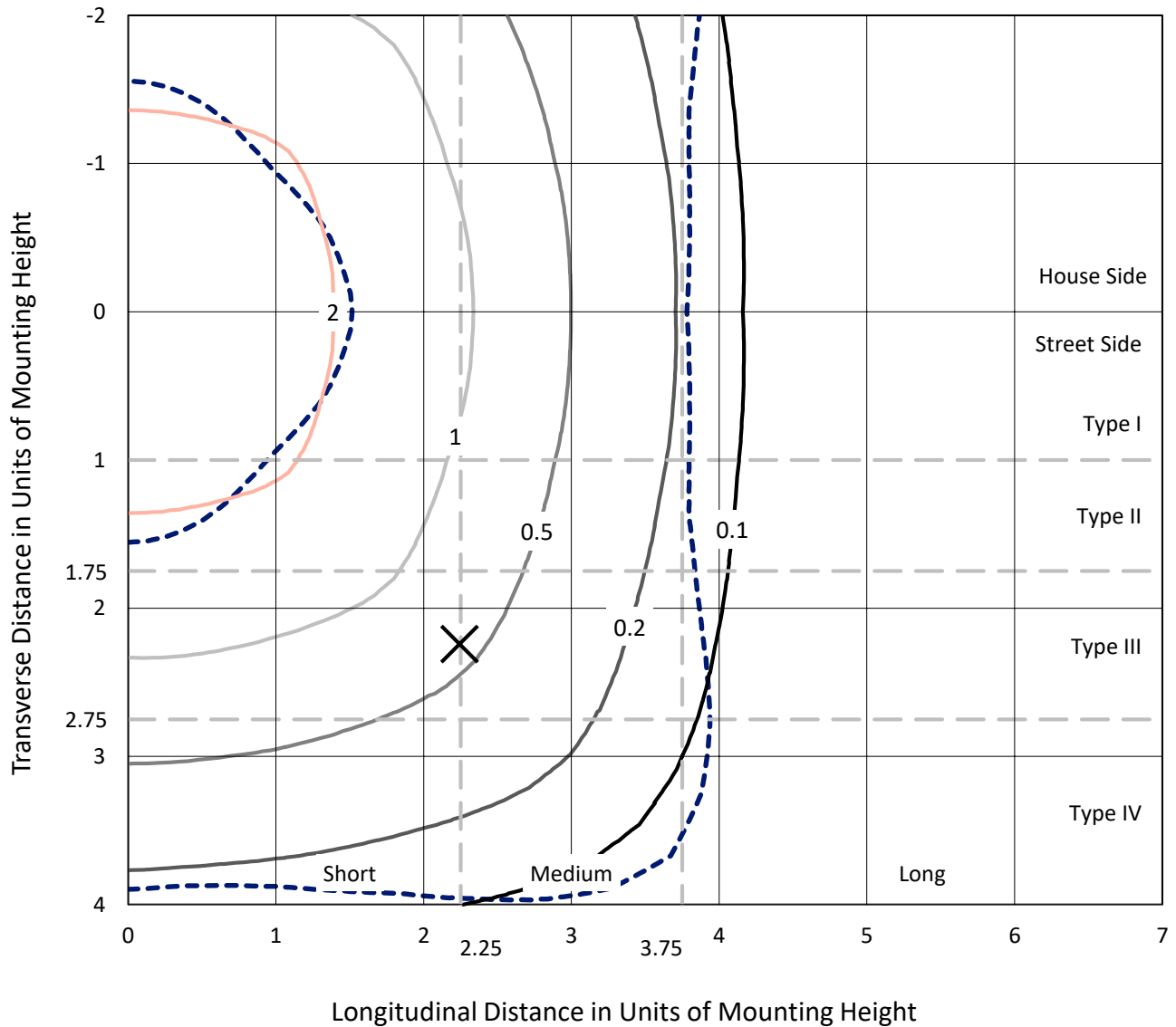
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

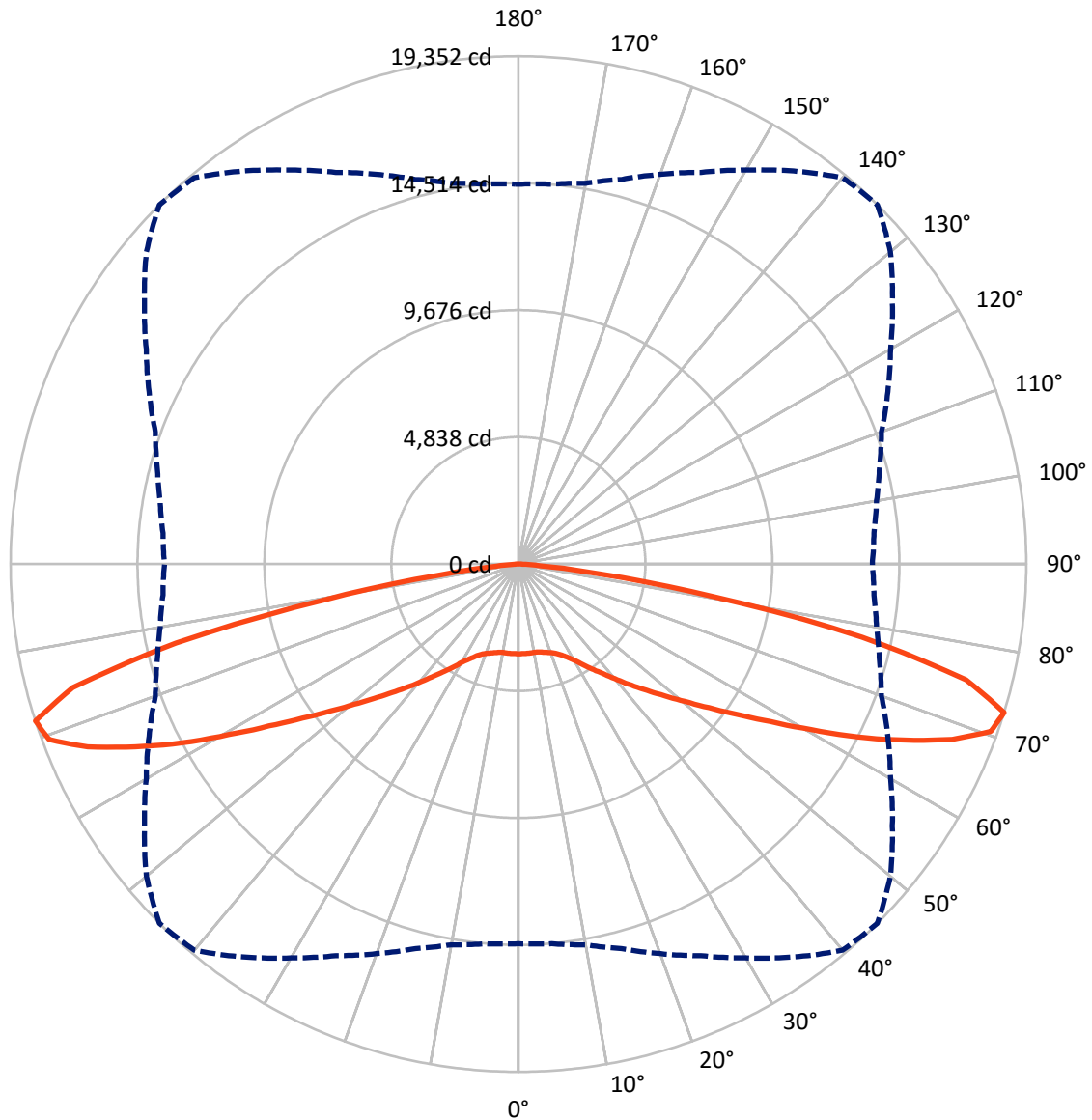


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - Semi-Cutoff

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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	24162.8	0.0	24162.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24162.8	0.0	24162.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	48325.5	0.0	48325.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	0.7
10°-20°	992.5	2.1
20°-30°	1813.6	3.8
30°-40°	3127.0	6.5
40°-50°	5345.6	11.1
50°-60°	8664.6	17.9
60°-70°	14374.3	29.7
70°-80°	12660.3	26.2
80°-90°	1020.8	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°	48325.5	100.0
0°-180°	48325.5	100.0



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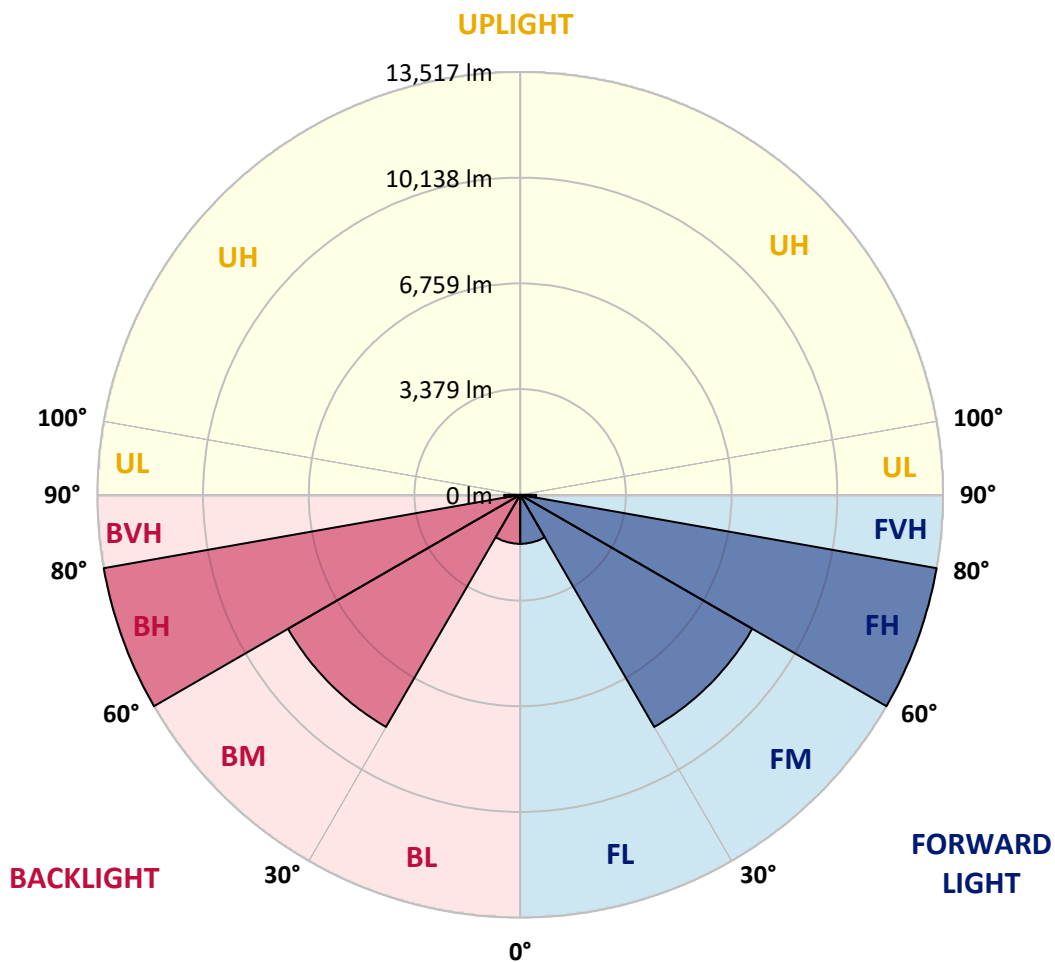
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1566.4	3.2			
FM	(30°-60°)	8568.6	17.7			
FH	(60°-80°)	13517.3	28.0			G5
FVH	(80°-90°)	510.4	1.1			G4/750
BL	(0°-30°)	1566.4	3.2	B3/2500		
BM	(30°-60°)	8568.6	17.7	B5		
BH	(60°-80°)	13517.3	28.0	B5		G5
BVH	(80°-90°)	510.4	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°	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3422.2	3424.4	3426.6	3424.4	3424.4	3422.2	3420.0	3422.2	3420.0	3415.6	3417.8
5°	3433.3	3437.7	3437.7	3433.3	3435.5	3433.3	3428.8	3431.1	3426.6	3420.0	3420.0
7.5°	3446.6	3448.8	3448.8	3444.4	3446.6	3442.1	3437.7	3435.5	3431.1	3422.2	3415.6
10°	3466.5	3468.7	3466.5	3462.1	3462.1	3455.4	3444.4	3439.9	3431.1	3417.8	3411.1
12.5°	3488.7	3490.9	3488.7	3484.3	3482.0	3471.0	3462.1	3455.4	3448.8	3437.7	3426.6
15°	3519.7	3524.2	3519.7	3510.9	3504.2	3495.3	3490.9	3493.1	3495.3	3486.5	3475.4
17.5°	3577.4	3579.6	3572.9	3553.0	3544.1	3535.2	3535.2	3539.7	3546.3	3541.9	3530.8
20°	3683.7	3677.1	3661.6	3637.2	3626.1	3610.6	3608.4	3610.6	3610.6	3608.4	3599.5
22.5°	3816.7	3812.3	3792.3	3761.3	3745.8	3736.9	3723.6	3712.6	3710.3	3703.7	3694.8
25°	3976.3	3974.1	3949.7	3923.1	3912.0	3901.0	3889.9	3874.4	3861.1	3845.5	3836.7
27.5°	4180.2	4171.4	4135.9	4122.6	4107.1	4100.4	4084.9	4067.2	4056.1	4036.2	4025.1
30°	4404.1	4404.1	4375.3	4370.8	4370.8	4355.3	4337.6	4306.6	4286.6	4266.7	4260.0
32.5°	4627.9	4630.2	4601.4	4610.2	4616.9	4627.9	4632.4	4621.3	4608.0	4605.8	4592.5
35°	4951.6	4942.7	4913.9	4920.5	4918.3	4916.1	4916.1	4940.5	4944.9	4949.3	4922.7
37.5°	5352.7	5352.7	5323.9	5323.9	5310.6	5297.3	5279.6	5295.1	5319.5	5326.1	5308.4
40°	5811.5	5827.0	5791.6	5789.4	5793.8	5751.7	5731.7	5756.1	5771.6	5798.2	5778.3
42.5°	6352.3	6341.3	6305.8	6301.4	6277.0	6263.7	6246.0	6265.9	6290.3	6308.0	6314.7
45°	6871.0	6862.1	6822.2	6822.2	6797.9	6786.8	6795.6	6828.9	6840.0	6864.3	6888.7
47.5°	7383.0	7371.9	7345.3	7356.4	7358.6	7378.6	7407.4	7438.4	7469.4	7502.7	7513.8
50°	7906.1	7908.3	7879.5	7906.1	7939.3	7994.7	8072.3	8123.3	8187.6	8229.7	8243.0
52.5°	8382.6	8391.5	8422.5	8484.6	8551.1	8659.7	8792.7	8916.8	9023.2	9094.1	9089.7
55°	8954.5	8967.8	9043.1	9149.5	9258.1	9422.1	9619.4	9838.8	10016.1	10118.1	10053.8
57.5°	9685.9	9714.7	9798.9	9943.0	10104.8	10317.6	10588.0	10918.2	11193.1	11330.5	11226.3
60°	10689.9	10707.7	10809.6	10969.2	11164.3	11428.0	11789.3	12232.6	12620.5	12802.2	12682.5
62.5°	12013.2	12046.4	12128.4	12290.2	12489.7	12788.9	13230.0	13784.1	14267.3	14520.0	14249.6
65°	13593.5	13699.9	13768.6	13932.6	14118.8	14435.7	14896.8	15490.8	16009.4	16175.7	15863.1
67.5°	15158.3	15251.4	15371.1	15559.5	15747.9	16104.7	16532.5	17108.8	17678.4	17829.1	17343.7
70°	15843.2	15896.4	16082.6	16339.7	16701.0	17122.1	17616.4	18263.6	18968.4	19092.5	18476.3
72.5°	14471.2	14524.4	14732.7	15169.4	15798.9	16468.2	17330.4	18281.3	19212.2	19351.8	18502.9
75°	10944.8	10858.4	11166.5	11745.0	12593.9	13527.0	14732.7	16095.9	17441.3	17616.4	16603.4
77.5°	5656.4	5645.3	5878.0	6596.2	7609.1	8670.8	9998.4	11538.8	12855.4	13387.4	12562.8
80°	1593.6	1611.4	1722.2	2079.0	2670.8	3437.7	4475.0	5917.9	6995.1	7544.8	7083.8
82.5°	625.0	673.8	715.9	782.4	860.0	973.0	1298.8	1932.7	2593.2	3098.6	2537.8
85°	223.9	239.4	339.1	401.2	407.8	430.0	489.8	571.8	689.3	822.3	676.0
87.5°	84.2	93.1	108.6	179.5	177.3	161.8	197.3	206.1	155.2	141.9	175.1
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°	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2	3422.2
2.5°	3413.3	3415.6	3415.6	3417.8	3420.0	3420.0	3424.4	3424.4
5°	3415.6	3415.6	3411.1	3413.3	3411.1	3411.1	3413.3	3413.3
7.5°	3411.1	3408.9	3404.5	3402.3	3397.8	3397.8	3397.8	3397.8
10°	3404.5	3402.3	3397.8	3395.6	3393.4	3393.4	3393.4	3393.4
12.5°	3422.2	3415.6	3411.1	3408.9	3408.9	3408.9	3408.9	3408.9
15°	3468.7	3453.2	3442.1	3442.1	3444.4	3448.8	3448.8	3453.2
17.5°	3526.4	3508.6	3497.6	3488.7	3493.1	3499.8	3504.2	3508.6
20°	3595.1	3586.2	3570.7	3561.8	3561.8	3570.7	3575.1	3577.4
22.5°	3690.4	3683.7	3677.1	3666.0	3666.0	3670.4	3679.3	3679.3
25°	3832.2	3827.8	3823.4	3814.5	3812.3	3812.3	3816.7	3821.2
27.5°	4009.6	4011.8	4007.3	4005.1	3998.5	3996.3	4002.9	4000.7
30°	4246.7	4257.8	4268.9	4260.0	4248.9	4242.3	4235.6	4226.8
32.5°	4568.1	4554.8	4545.9	4530.4	4510.5	4492.7	4479.4	4463.9
35°	4871.8	4849.6	4840.7	4854.0	4851.8	4840.7	4825.2	4811.9
37.5°	5244.1	5239.7	5244.1	5268.5	5264.1	5275.2	5244.1	5241.9
40°	5714.0	5718.4	5749.5	5778.3	5793.8	5809.3	5791.6	5773.9
42.5°	6259.3	6257.0	6268.1	6308.0	6334.6	6352.3	6314.7	6310.2
45°	6835.5	6820.0	6828.9	6862.1	6888.7	6908.7	6866.6	6866.6
47.5°	7469.4	7442.8	7414.0	7451.7	7467.2	7480.5	7447.3	7436.2
50°	8176.5	8121.1	8059.0	8074.5	8074.5	8070.1	8028.0	8025.8
52.5°	8987.7	8885.8	8772.7	8730.6	8706.2	8679.6	8606.5	8571.0
55°	9920.8	9767.9	9590.6	9482.0	9424.3	9351.2	9229.3	9196.1
57.5°	11011.3	10772.0	10466.1	10333.1	10204.5	10084.9	9949.6	9912.0
60°	12303.5	11951.1	11545.5	11299.5	11159.8	11044.6	10904.9	10898.3
62.5°	13744.2	13187.9	12729.1	12507.4	12405.5	12303.5	12170.5	12188.3
65°	15209.3	14628.6	14198.6	14019.1	13923.7	13839.5	13706.5	13726.5
67.5°	16654.4	16120.2	15648.1	15464.2	15357.8	15251.4	15131.7	15151.7
70°	17691.7	17029.0	16497.0	16089.2	15834.3	15546.2	15360.0	15313.5
72.5°	17394.7	16372.9	15528.5	14719.5	14245.1	13859.5	13597.9	13484.9
75°	15054.1	13657.8	12571.7	11578.7	11020.2	10565.8	10235.6	10029.4
77.5°	11179.8	9610.5	8327.2	7183.5	6279.2	5671.9	5244.1	4967.1
80°	6119.6	4654.5	3402.3	2391.6	1757.6	1460.6	1290.0	1208.0
82.5°	1906.1	1230.1	906.5	782.4	727.0	696.0	645.0	563.0
85°	607.3	531.9	494.3	472.1	449.9	392.3	270.4	246.0
87.5°	234.9	241.6	239.4	226.1	230.5	166.2	133.0	117.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)