

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: P190805

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5MQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36554.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

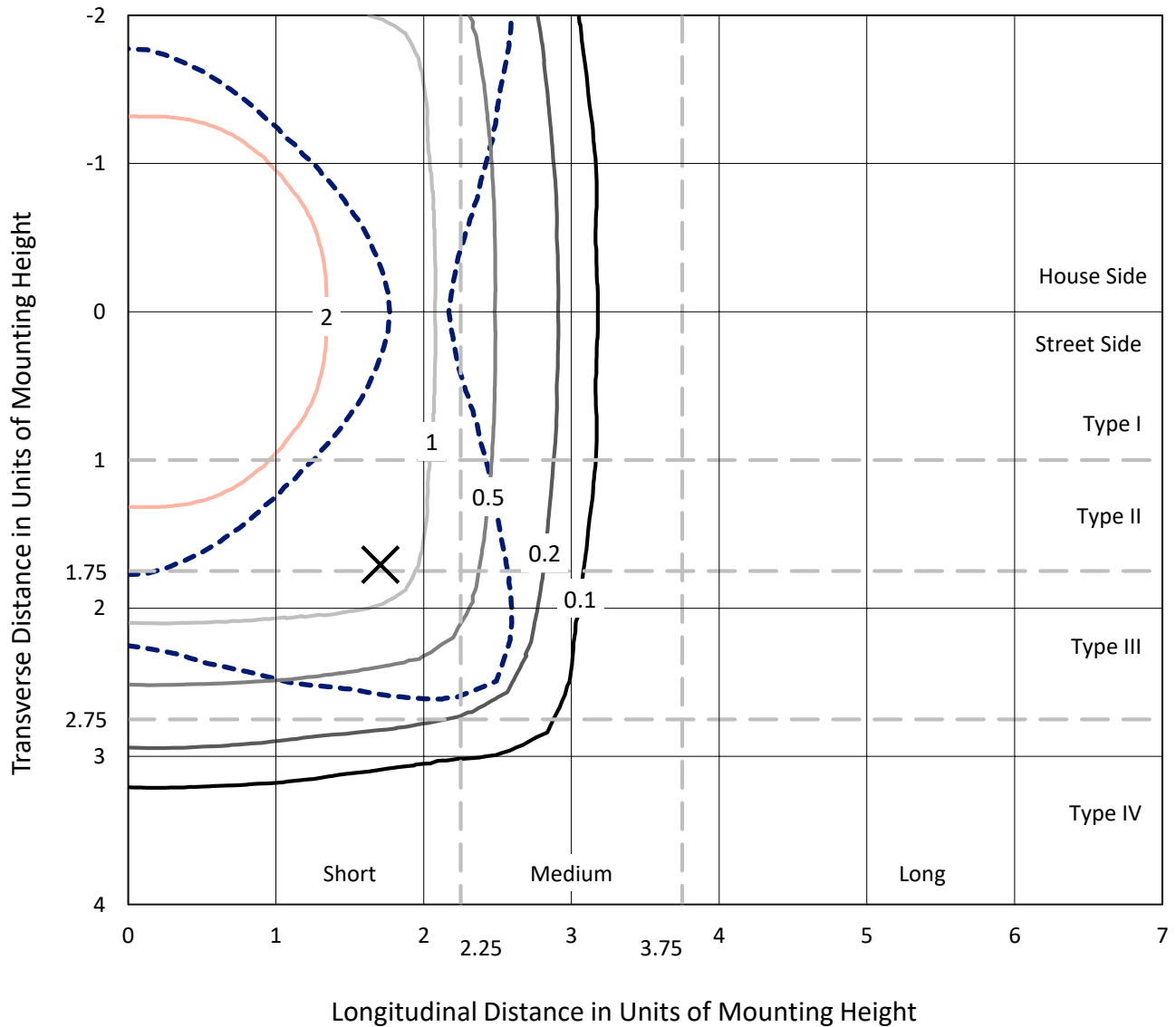
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

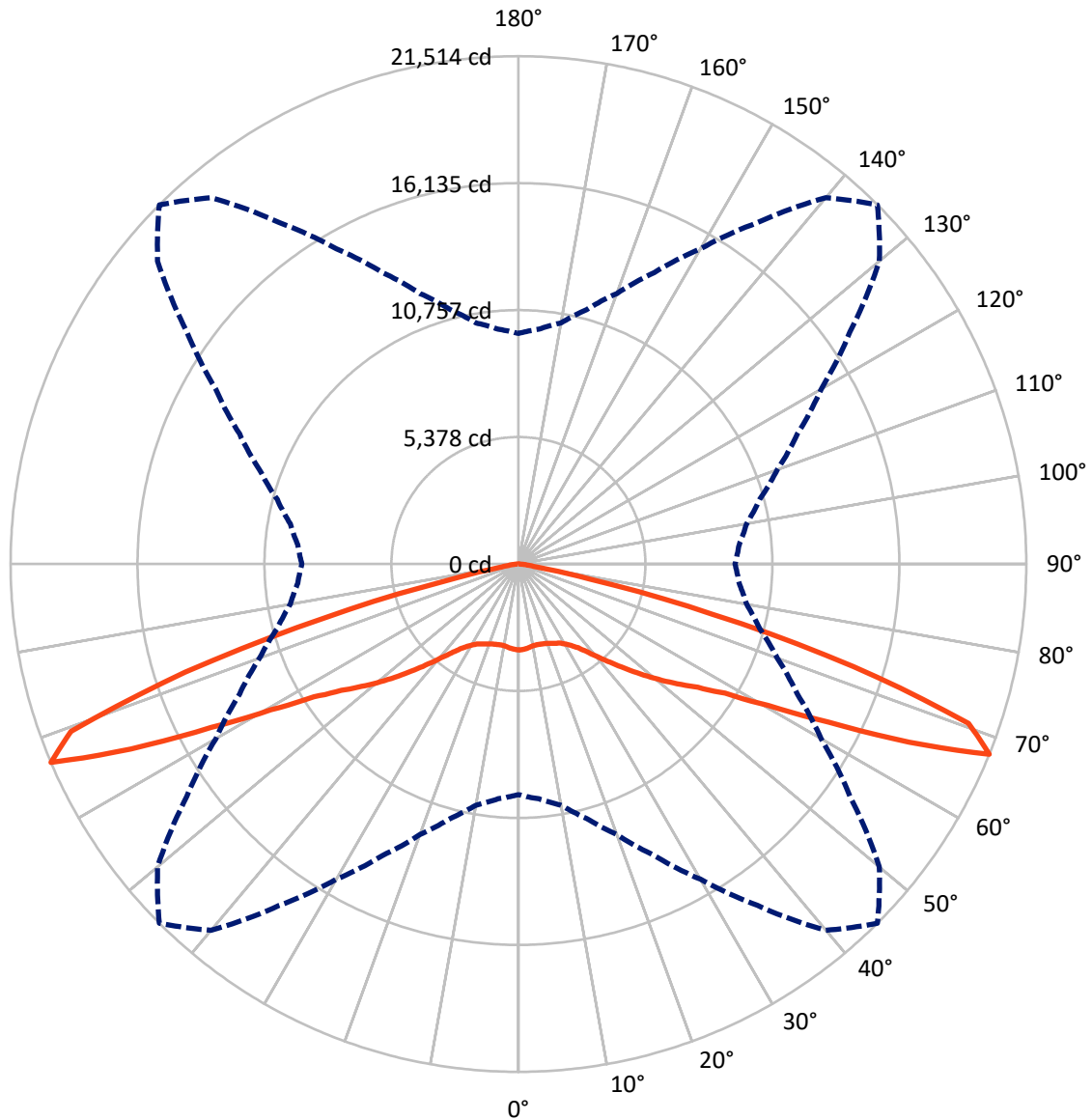
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18277.1	0.0	18277.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18277.1	0.0	18277.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	36554.1	0.0	36554.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	0.9
10°-20°	989.4	2.7
20°-30°	1681.9	4.6
30°-40°	2749.4	7.5
40°-50°	4908.2	13.4
50°-60°	8275.3	22.6
60°-70°	12842.0	35.1
70°-80°	4512.1	12.3
80°-90°	255.0	0.7
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°	36554.1	100.0
0°-180°	36554.1	100.0



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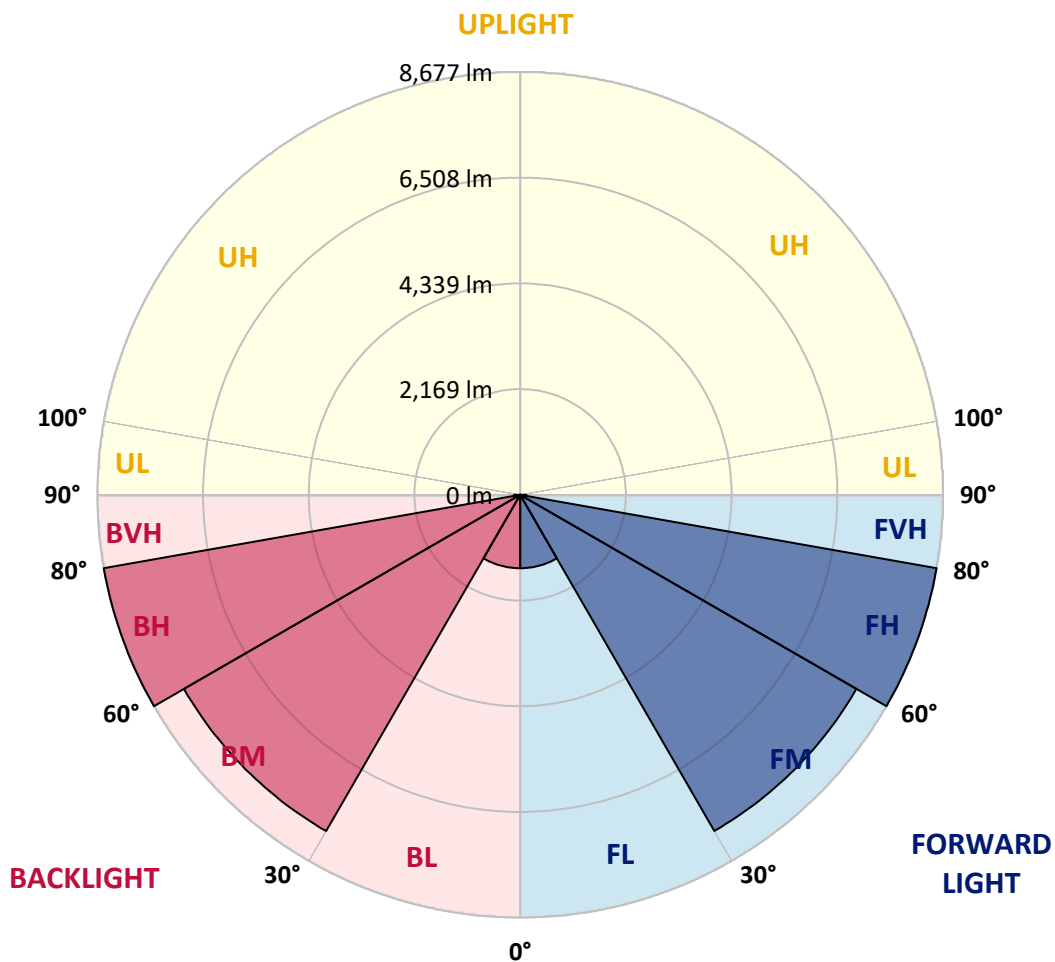
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.1	4.1			
FM	(30°-60°)	7966.4	21.8			
FH	(60°-80°)	8677.1	23.7			G4/12000
FVH	(80°-90°)	127.5	0.3			G2/225
BL	(0°-30°)	1506.1	4.1	B3/2500		
BM	(30°-60°)	7966.4	21.8	B4/8500		
BH	(60°-80°)	8677.1	23.7	B5		G4/12000
BVH	(80°-90°)	127.5	0.3			G2/225
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7
2.5°	3629.3	3632.7	3632.7	3632.7	3631.0	3631.0	3627.7	3631.0	3629.3	3624.3	3626.0
5°	3599.0	3602.4	3602.4	3600.8	3605.8	3604.1	3599.0	3602.4	3600.8	3597.4	3599.0
7.5°	3555.4	3560.4	3560.4	3558.7	3563.8	3562.1	3558.7	3560.4	3560.4	3555.4	3555.4
10°	3506.6	3509.9	3509.9	3508.3	3516.7	3516.7	3515.1	3520.1	3521.7	3516.7	3513.3
12.5°	3461.3	3466.3	3466.3	3473.0	3481.4	3484.8	3493.2	3499.9	3506.6	3504.9	3498.2
15°	3434.4	3437.7	3444.4	3452.9	3466.3	3478.0	3491.4	3506.6	3520.1	3523.5	3513.3
17.5°	3417.5	3422.6	3432.6	3444.4	3462.9	3483.0	3503.2	3523.5	3541.9	3548.6	3536.9
20°	3412.5	3415.8	3426.0	3446.1	3471.3	3501.6	3530.1	3553.6	3578.9	3587.3	3578.9
22.5°	3422.6	3429.2	3441.0	3464.6	3498.2	3536.9	3570.5	3602.4	3634.3	3649.5	3637.7
25°	3467.9	3474.7	3489.8	3520.1	3557.0	3597.4	3636.1	3673.0	3701.6	3716.7	3708.3
27.5°	3552.0	3560.4	3578.9	3609.2	3649.5	3693.2	3735.2	3765.5	3789.0	3794.0	3784.0
30°	3678.1	3696.5	3718.4	3752.1	3799.1	3836.1	3878.1	3905.0	3933.6	3933.6	3925.2
32.5°	3874.7	3893.2	3916.8	3948.7	3985.7	4026.0	4063.1	4086.6	4116.9	4118.5	4098.4
35°	4168.9	4177.3	4197.5	4217.7	4251.3	4286.6	4318.6	4333.6	4358.9	4360.5	4342.1
37.5°	4557.2	4558.9	4572.4	4579.1	4609.3	4648.0	4678.3	4688.4	4711.9	4708.5	4690.0
40°	5009.5	5017.9	5022.9	5033.0	5064.9	5101.9	5133.9	5138.9	5164.1	5159.0	5135.5
42.5°	5532.2	5535.6	5564.1	5579.3	5609.6	5628.1	5668.4	5673.5	5703.7	5690.3	5663.4
45°	6118.9	6149.2	6176.1	6206.3	6238.3	6260.2	6292.1	6285.3	6305.5	6285.3	6270.2
47.5°	6735.8	6757.7	6818.2	6865.3	6917.4	6935.9	6981.2	6961.1	6981.2	6952.7	6947.7
50°	7415.0	7453.6	7505.8	7559.5	7615.1	7645.3	7704.1	7678.9	7705.8	7678.9	7663.7
52.5°	8084.1	8094.1	8208.5	8287.4	8364.8	8400.1	8435.4	8423.6	8425.2	8423.6	8408.5
55°	8719.4	8743.0	8857.3	8964.9	9099.4	9198.6	9259.0	9252.4	9237.2	9222.1	9196.8
57.5°	9435.6	9459.1	9590.3	9723.0	9876.0	10017.2	10139.9	10266.0	10314.7	10328.2	10272.7
60°	10403.8	10402.2	10577.0	10738.3	10956.9	11167.0	11436.0	11710.0	12024.4	12170.6	11977.3
62.5°	11388.9	11429.2	11681.4	11967.2	12417.7	12856.4	13352.4	13839.8	14337.5	14742.6	14312.2
65°	11271.3	11425.8	11800.8	12448.0	13280.0	14268.5	15337.6	16469.0	17491.0	18193.7	17405.3
67.5°	9768.5	9988.6	10370.3	11156.9	12197.5	13623.0	15418.3	17655.7	20256.3	21513.7	19955.4
70°	7080.5	7329.2	7729.3	8497.6	9528.1	10883.0	12832.9	15519.2	18961.9	20229.4	18513.1
72.5°	3523.5	3657.9	3905.0	4394.2	5174.2	6273.6	8042.0	10624.1	13670.1	14833.3	13264.9
75°	1196.9	1259.0	1301.1	1460.8	1707.9	2139.9	3019.1	4644.7	7085.5	8494.2	6984.6
77.5°	690.9	692.5	721.2	749.7	791.8	838.8	956.5	1255.7	2171.9	3084.7	2247.5
80°	447.1	445.5	469.0	490.8	519.5	543.0	549.7	581.6	670.7	795.1	711.1
82.5°	232.0	260.5	312.7	341.3	395.1	405.1	391.7	379.9	401.8	416.9	427.0
85°	127.8	111.0	166.4	215.1	238.7	242.0	242.0	228.6	237.0	232.0	252.2
87.5°	58.8	53.8	65.6	105.9	112.6	95.9	100.9	89.1	63.8	62.2	70.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7	3642.7
2.5°	3626.0	3627.7	3627.7	3632.7	3634.3	3637.7	3641.1	3642.7
5°	3597.4	3602.4	3599.0	3604.1	3604.1	3607.4	3607.4	3609.2
7.5°	3555.4	3560.4	3560.4	3560.4	3558.7	3563.8	3563.8	3563.8
10°	3511.7	3515.1	3513.3	3509.9	3506.6	3511.7	3509.9	3508.3
12.5°	3498.2	3489.8	3483.0	3479.7	3473.0	3474.7	3469.6	3469.6
15°	3506.6	3491.4	3479.7	3474.7	3467.9	3464.6	3461.3	3462.9
17.5°	3528.5	3509.9	3494.8	3486.4	3478.0	3473.0	3466.3	3467.9
20°	3567.1	3545.2	3523.5	3506.6	3491.4	3483.0	3478.0	3476.4
22.5°	3624.3	3592.3	3560.4	3535.2	3515.1	3503.2	3498.2	3494.8
25°	3689.9	3654.5	3617.6	3589.0	3568.8	3553.6	3543.6	3543.6
27.5°	3772.2	3743.6	3710.0	3676.4	3657.9	3642.7	3636.1	3632.7
30°	3910.0	3883.1	3856.2	3824.3	3800.8	3785.6	3773.9	3763.8
32.5°	4086.6	4064.7	4042.9	4019.3	3997.5	3977.3	3958.8	3950.4
35°	4335.4	4318.6	4303.5	4276.5	4268.2	4256.4	4246.3	4237.9
37.5°	4678.3	4671.5	4671.5	4643.0	4636.2	4631.2	4621.1	4622.8
40°	5128.8	5135.5	5127.1	5117.0	5112.0	5098.5	5098.5	5110.3
42.5°	5661.7	5666.7	5685.3	5668.4	5686.9	5670.1	5660.0	5668.4
45°	6280.3	6298.8	6335.7	6319.0	6330.7	6302.2	6266.8	6268.5
47.5°	6974.6	6991.4	7006.5	6994.7	6996.4	6949.3	6902.3	6890.5
50°	7695.8	7702.4	7710.8	7694.0	7697.4	7645.3	7591.5	7593.2
52.5°	8408.5	8440.4	8474.0	8428.6	8418.6	8359.8	8284.1	8253.8
55°	9223.7	9269.2	9230.5	9151.5	9072.4	8993.5	8894.3	8877.5
57.5°	10229.0	10151.7	10030.6	9881.1	9771.7	9660.8	9560.0	9517.9
60°	11627.6	11336.9	11118.2	10896.4	10756.8	10620.7	10487.9	10467.8
62.5°	13604.5	13101.9	12666.5	12207.6	11832.7	11540.2	11306.6	11241.0
65°	16082.3	14893.9	13863.3	12901.9	12066.3	11436.0	11039.3	10864.5
67.5°	17148.1	14801.4	13034.6	11669.6	10577.0	9813.8	9385.2	9171.7
70°	15068.7	12274.8	10353.4	8986.7	7991.6	7177.9	6789.6	6561.0
72.5°	10366.9	7808.4	6174.4	5039.7	4244.5	3563.8	3294.8	3274.7
75°	4654.7	3083.0	2124.8	1637.3	1378.4	1198.6	1143.0	1101.1
77.5°	1302.8	963.2	859.0	803.5	749.7	687.5	664.0	669.0
80°	633.7	598.4	574.9	539.6	490.8	438.7	415.2	425.3
82.5°	420.2	415.2	430.4	405.1	334.5	284.1	238.7	218.5
85°	255.5	258.9	263.9	265.6	225.3	158.0	107.6	121.0
87.5°	100.9	116.0	126.0	131.1	122.8	75.6	60.6	62.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)