

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: P269523

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269523
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-08-LED-E1-5MQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 35177.3 lumens
Efficiency: N/A
Efficacy: 105.3 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): 334
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

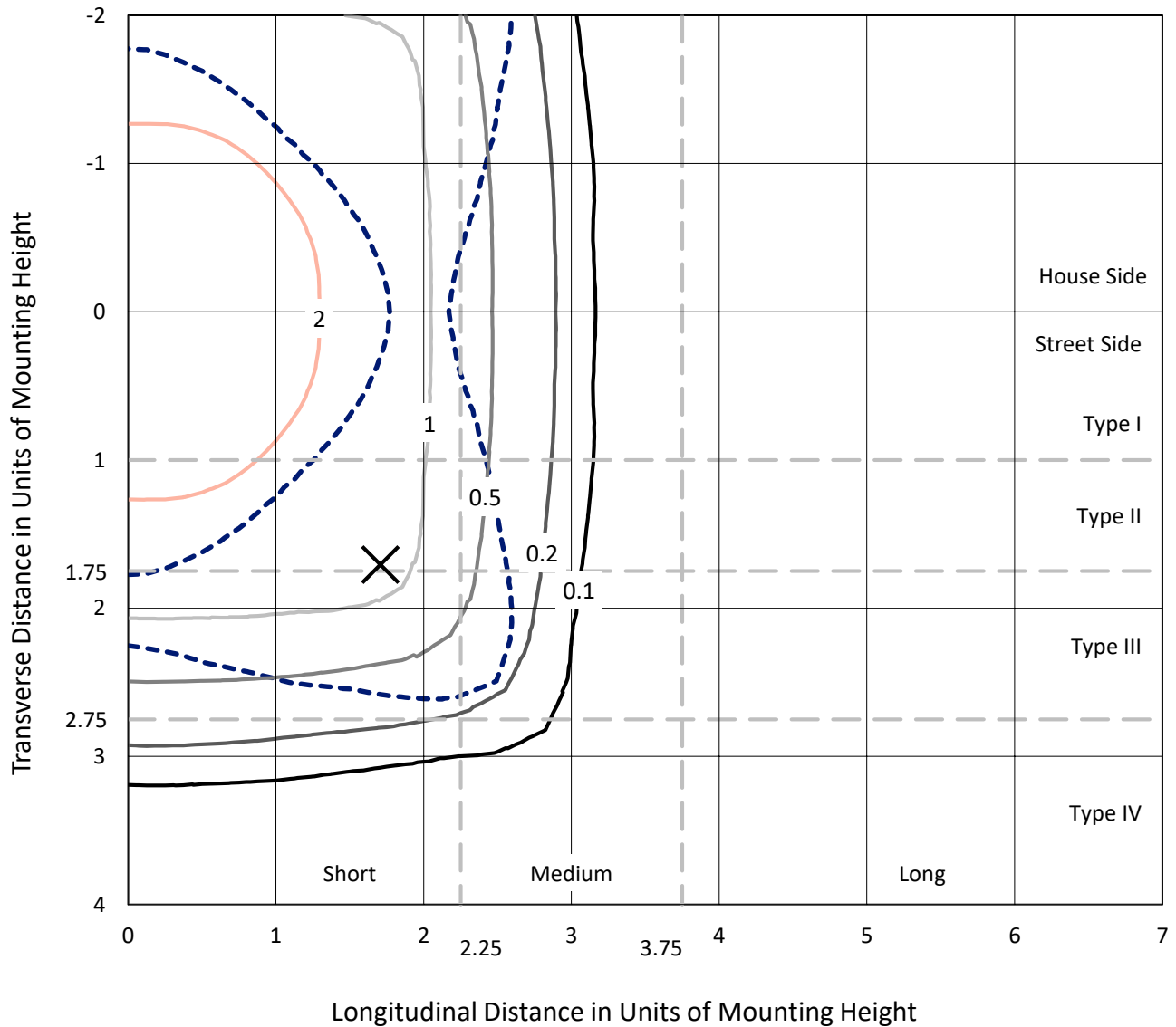


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

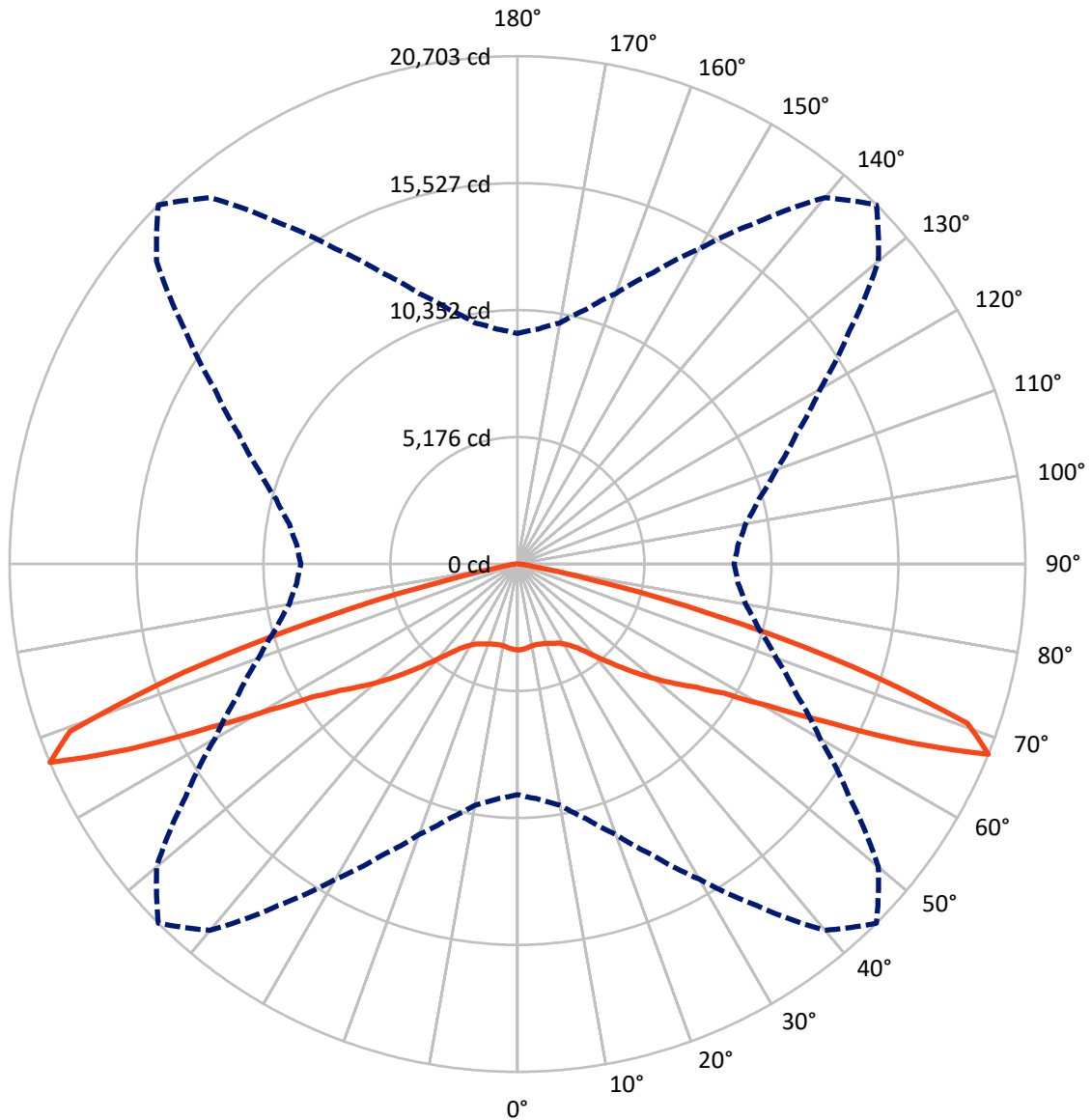


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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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	17588.6	0.0	17588.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17588.6	0.0	17588.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	35177.3	0.0	35177.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.1	0.9
10°-20°	952.1	2.7
20°-30°	1618.5	4.6
30°-40°	2645.8	7.5
40°-50°	4723.3	13.4
50°-60°	7963.6	22.6
60°-70°	12358.3	35.1
70°-80°	4342.1	12.3
80°-90°	245.4	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°	35177.3	100.0
0°-180°	35177.3	100.0



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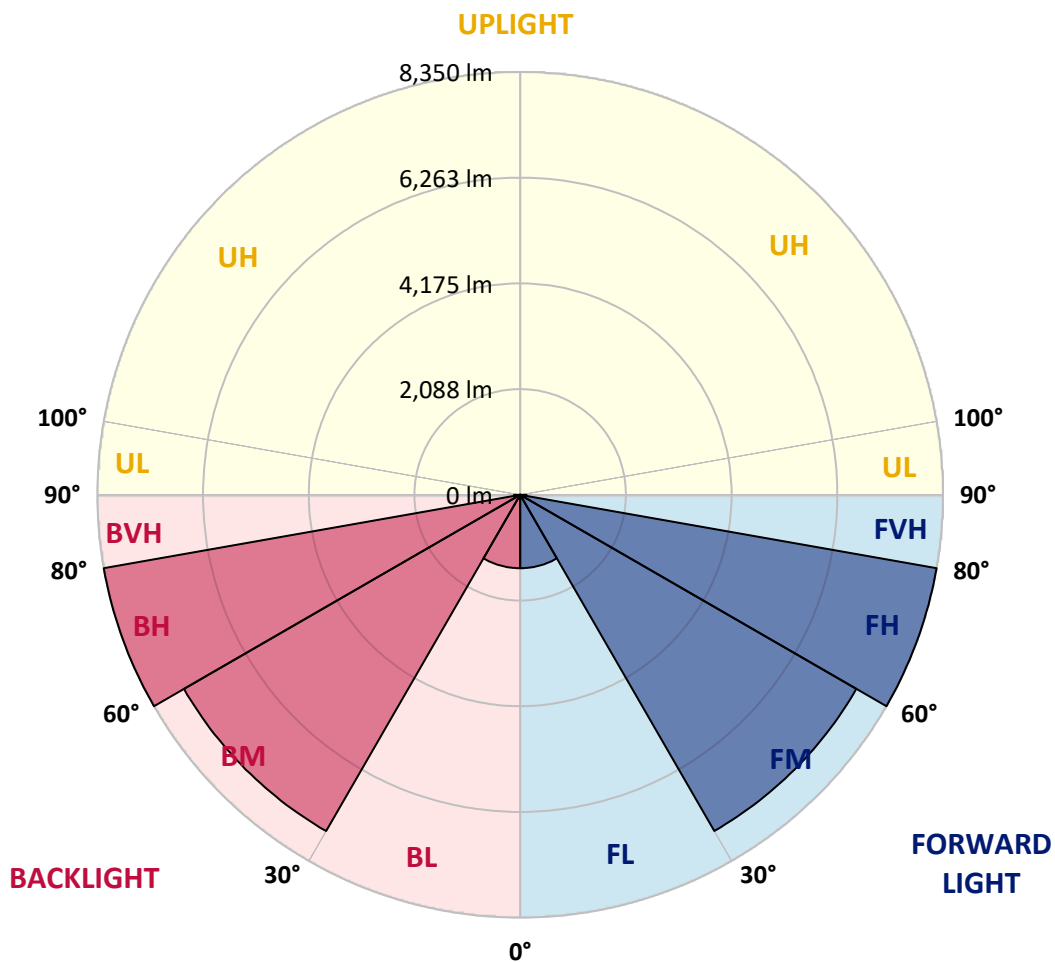
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.4	4.1			
FM	(30°-60°)	7666.3	21.8			
FH	(60°-80°)	8350.2	23.7			G4/12000
FVH	(80°-90°)	122.7	0.3			G2/225
BL	(0°-30°)	1449.4	4.1	B3/2500		
BM	(30°-60°)	7666.3	21.8	B4/8500		
BH	(60°-80°)	8350.2	23.7	B5		G4/12000
BVH	(80°-90°)	122.7	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°	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5
2.5°	3492.6	3495.8	3495.8	3495.8	3494.2	3494.2	3491.1	3494.2	3492.6	3487.8	3489.3
5°	3463.5	3466.6	3466.6	3465.1	3470.0	3468.4	3463.5	3466.6	3465.1	3461.9	3463.5
7.5°	3421.5	3426.2	3426.2	3424.7	3429.5	3427.9	3424.7	3426.2	3426.2	3421.5	3421.5
10°	3374.6	3377.7	3377.7	3376.1	3384.3	3384.3	3382.6	3387.5	3389.0	3384.3	3381.0
12.5°	3330.8	3335.6	3335.6	3342.1	3350.3	3353.6	3361.5	3368.0	3374.6	3373.0	3366.5
15°	3305.0	3308.2	3314.7	3322.8	3335.6	3347.1	3360.0	3374.6	3387.5	3390.7	3381.0
17.5°	3288.8	3293.6	3303.3	3314.7	3332.4	3351.8	3371.2	3390.7	3408.4	3414.9	3403.7
20°	3283.9	3287.2	3296.9	3316.4	3340.5	3369.7	3397.2	3419.8	3444.1	3452.1	3444.1
22.5°	3293.6	3300.2	3311.4	3334.1	3366.5	3403.7	3435.9	3466.6	3497.6	3512.1	3500.8
25°	3337.4	3343.9	3358.4	3387.5	3423.0	3461.9	3499.1	3534.7	3562.1	3576.7	3568.6
27.5°	3418.2	3426.2	3444.1	3473.1	3512.1	3554.1	3594.6	3623.7	3646.3	3651.2	3641.5
30°	3539.5	3557.4	3578.4	3610.6	3656.0	3691.7	3732.1	3757.9	3785.5	3785.5	3777.4
32.5°	3728.9	3746.7	3769.3	3800.0	3835.6	3874.4	3910.1	3932.6	3961.7	3963.4	3944.0
35°	4011.9	4019.9	4039.4	4058.8	4091.2	4125.1	4155.9	4170.4	4194.7	4196.3	4178.6
37.5°	4385.5	4387.2	4400.2	4406.6	4435.7	4472.9	4502.0	4511.7	4534.5	4531.2	4513.4
40°	4820.8	4828.8	4833.7	4843.4	4874.2	4909.7	4940.5	4945.3	4969.7	4964.8	4942.0
42.5°	5323.9	5327.0	5354.5	5369.2	5398.3	5416.2	5454.9	5459.8	5488.9	5475.9	5450.0
45°	5888.4	5917.6	5943.5	5972.7	6003.4	6024.4	6055.0	6048.6	6068.1	6048.6	6034.1
47.5°	6482.1	6503.2	6561.4	6606.8	6656.9	6674.6	6718.3	6698.9	6718.3	6690.8	6685.9
50°	7135.6	7172.8	7223.0	7274.8	7328.3	7357.3	7413.9	7389.6	7415.6	7389.6	7375.2
52.5°	7779.5	7789.3	7899.2	7975.3	8049.7	8083.7	8117.7	8106.3	8107.9	8106.3	8091.8
55°	8391.1	8413.6	8523.7	8627.2	8756.7	8852.1	8910.3	8903.8	8889.3	8874.7	8850.5
57.5°	9080.2	9102.9	9228.9	9356.7	9504.0	9639.9	9758.0	9879.3	9926.2	9939.1	9885.8
60°	10012.0	10010.4	10178.5	10333.9	10544.1	10746.5	11005.2	11268.9	11571.4	11712.2	11526.2
62.5°	10960.0	10998.8	11241.4	11516.5	11950.0	12372.1	12849.4	13318.5	13797.3	14187.2	13773.2
65°	10846.8	10995.6	11356.4	11979.1	12779.8	13731.0	14760.0	15848.6	16832.3	17508.4	16749.6
67.5°	9400.5	9612.5	9979.6	10736.7	11738.1	13109.9	14837.6	16990.7	19493.3	20703.3	19203.7
70°	6813.7	7053.2	7438.1	8177.5	9169.1	10473.0	12349.5	14934.6	18247.7	19467.4	17815.7
72.5°	3390.7	3520.1	3757.9	4228.7	4979.2	6037.2	7739.1	10223.9	13155.1	14274.6	12765.4
75°	1151.7	1211.6	1252.1	1405.8	1643.5	2059.4	2905.4	4469.6	6818.7	8174.2	6721.6
77.5°	664.8	666.5	694.0	721.5	761.9	807.2	920.5	1208.4	2090.0	2968.4	2162.8
80°	430.3	428.8	451.4	472.4	499.8	522.5	529.0	559.7	645.4	765.1	684.2
82.5°	223.3	250.7	300.9	328.4	380.2	389.9	376.8	365.6	386.6	401.3	410.9
85°	123.0	106.8	160.2	207.1	229.6	232.9	232.9	220.1	228.1	223.3	242.6
87.5°	56.7	51.7	63.2	101.9	108.3	92.2	97.0	85.8	61.4	59.8	67.9
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°	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5	3505.5
2.5°	3489.3	3491.1	3491.1	3495.8	3497.6	3500.8	3504.0	3505.5
5°	3461.9	3466.6	3463.5	3468.4	3468.4	3471.6	3471.6	3473.1
7.5°	3421.5	3426.2	3426.2	3426.2	3424.7	3429.5	3429.5	3429.5
10°	3379.3	3382.6	3381.0	3377.7	3374.6	3379.3	3377.7	3376.1
12.5°	3366.5	3358.4	3351.8	3348.6	3342.1	3343.9	3338.9	3338.9
15°	3374.6	3360.0	3348.6	3343.9	3337.4	3334.1	3330.8	3332.4
17.5°	3395.6	3377.7	3363.3	3355.1	3347.1	3342.1	3335.6	3337.4
20°	3432.8	3411.8	3390.7	3374.6	3360.0	3351.8	3347.1	3345.4
22.5°	3487.8	3457.0	3426.2	3402.1	3382.6	3371.2	3366.5	3363.3
25°	3550.9	3516.9	3481.3	3453.9	3434.4	3419.8	3410.1	3410.1
27.5°	3630.1	3602.7	3570.3	3538.0	3520.1	3505.5	3499.1	3495.8
30°	3762.8	3736.9	3711.0	3680.3	3657.5	3643.0	3631.8	3622.1
32.5°	3932.6	3911.6	3890.6	3867.9	3846.9	3827.5	3809.7	3801.5
35°	4172.1	4155.9	4141.4	4115.4	4107.3	4096.0	4086.3	4078.2
37.5°	4502.0	4495.6	4495.6	4468.1	4461.6	4456.9	4447.1	4448.6
40°	4935.6	4942.0	4934.0	4924.2	4919.5	4906.5	4906.5	4917.9
42.5°	5448.4	5453.3	5471.0	5454.9	5472.7	5456.6	5446.9	5454.9
45°	6043.7	6061.6	6097.2	6080.9	6092.2	6064.7	6030.9	6032.4
47.5°	6711.9	6728.0	6742.6	6731.3	6732.8	6687.6	6642.2	6631.0
50°	7405.8	7412.4	7420.4	7404.2	7407.5	7357.3	7305.6	7307.2
52.5°	8091.8	8122.5	8154.9	8111.2	8101.5	8044.9	7972.1	7943.0
55°	8876.3	8920.0	8882.8	8806.8	8730.7	8654.7	8559.3	8543.2
57.5°	9843.7	9769.2	9652.8	9508.9	9403.6	9297.0	9199.9	9159.5
60°	11189.6	10909.7	10699.5	10485.9	10351.7	10220.6	10092.8	10073.5
62.5°	13092.1	12608.4	12189.5	11747.8	11387.0	11105.6	10880.7	10817.6
65°	15476.5	14332.8	13341.2	12415.8	11611.9	11005.2	10623.4	10455.3
67.5°	16502.3	14243.9	12543.7	11230.2	10178.5	9444.2	9031.6	8826.1
70°	14501.1	11812.4	9963.5	8648.3	7690.6	6907.5	6533.9	6313.8
72.5°	9976.3	7514.2	5941.7	4849.9	4084.8	3429.5	3170.7	3151.3
75°	4479.4	2966.8	2044.8	1575.6	1326.4	1153.5	1100.1	1059.6
77.5°	1253.8	927.0	826.6	773.4	721.5	661.6	639.0	643.8
80°	609.9	576.0	553.3	519.3	472.4	422.3	399.6	409.3
82.5°	404.4	399.6	414.1	389.9	322.0	273.4	229.6	210.4
85°	245.9	249.1	254.0	255.6	216.9	152.1	103.6	116.5
87.5°	97.0	111.6	121.4	126.2	118.0	72.9	58.2	59.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)