

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: P193554

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-RW-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29696 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

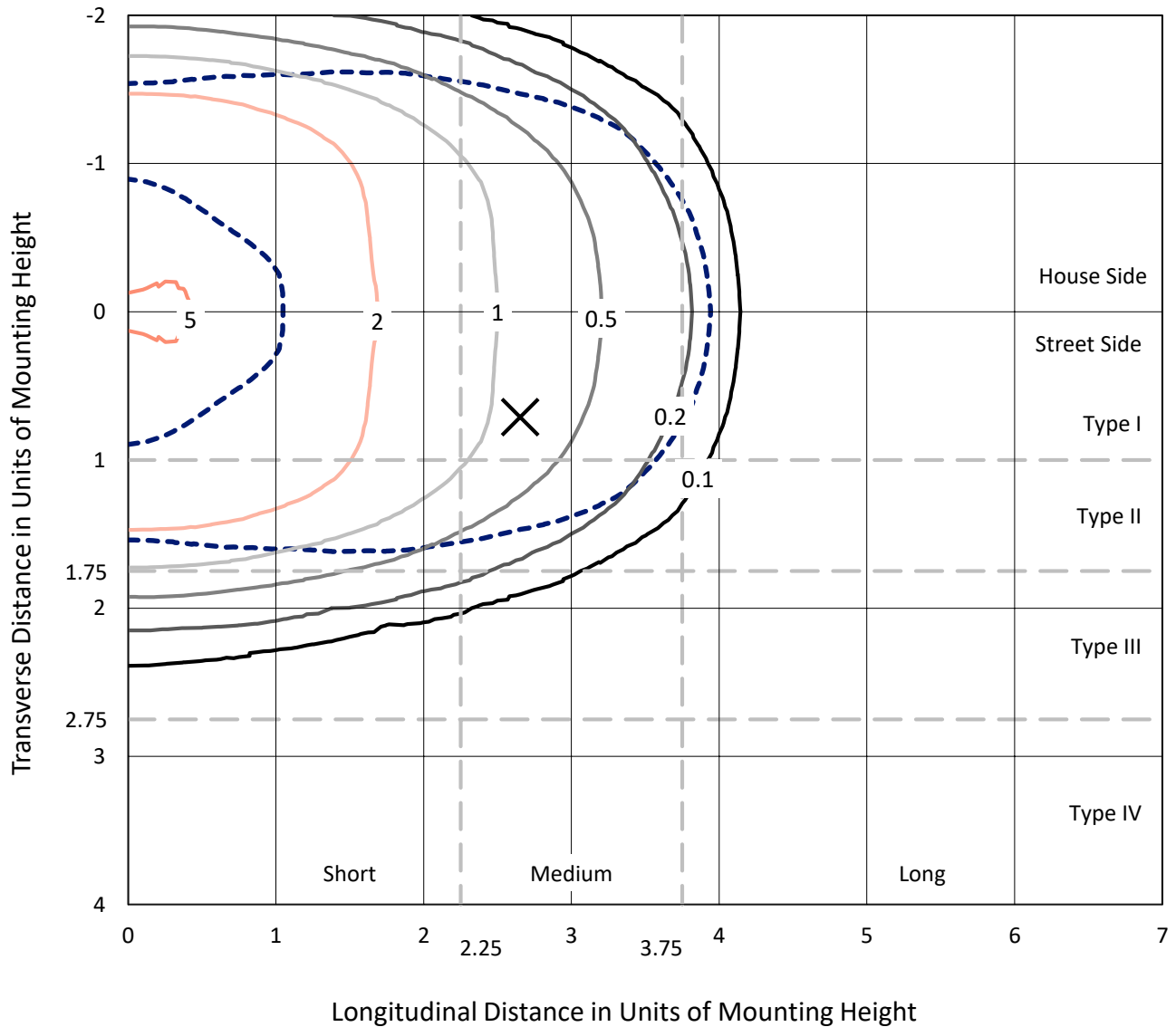
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

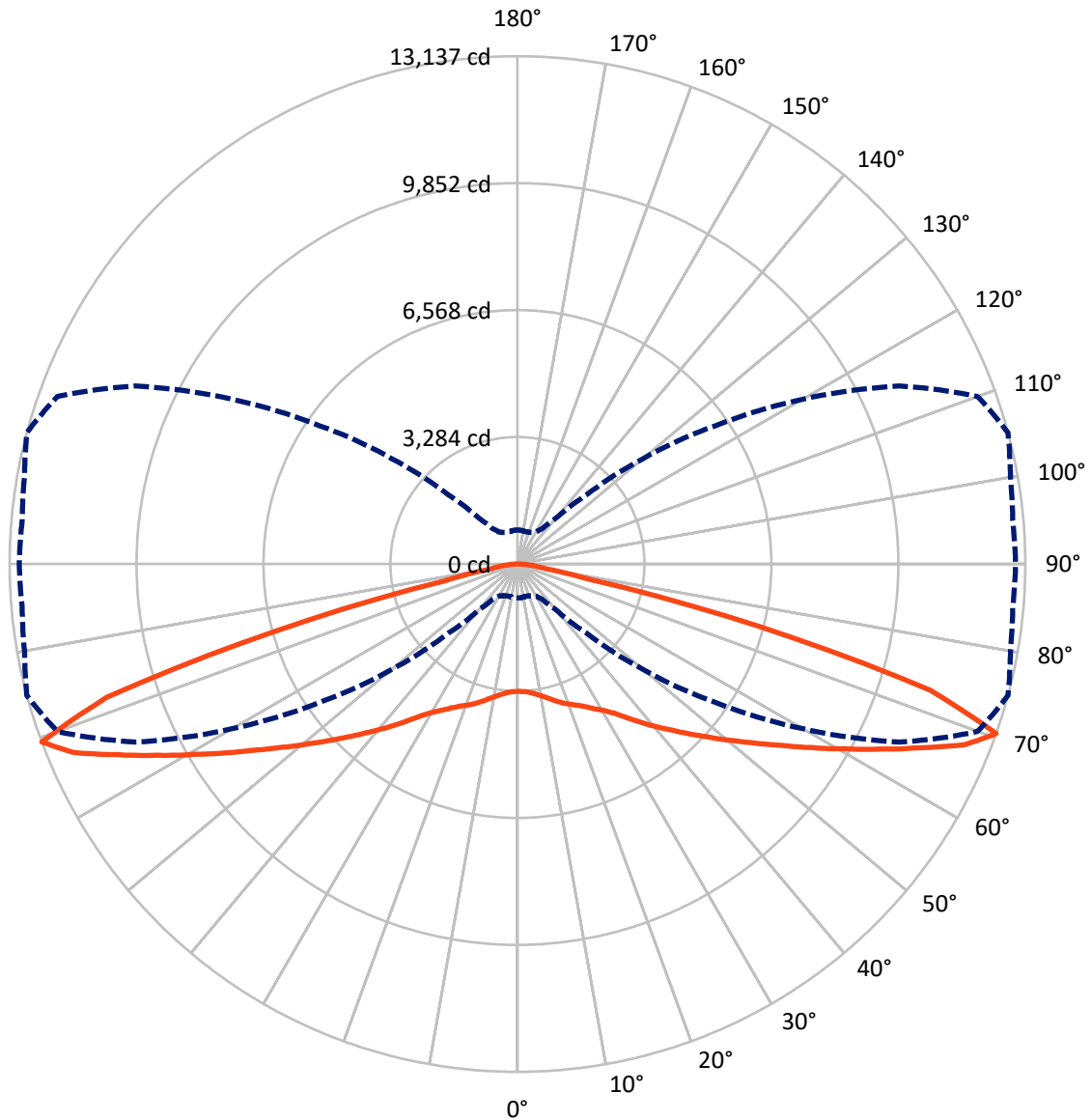
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14848.0	0.0	14848.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14848.0	0.0	14848.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29696.0	0.0	29696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.1
10°-20°	981.6	3.3
20°-30°	1847.5	6.2
30°-40°	3271.6	11.0
40°-50°	5471.2	18.4
50°-60°	7624.1	25.7
60°-70°	7070.2	23.8
70°-80°	2817.7	9.5
80°-90°	296.2	1.0
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°	29696.0	100.0
0°-180°	29696.0	100.0



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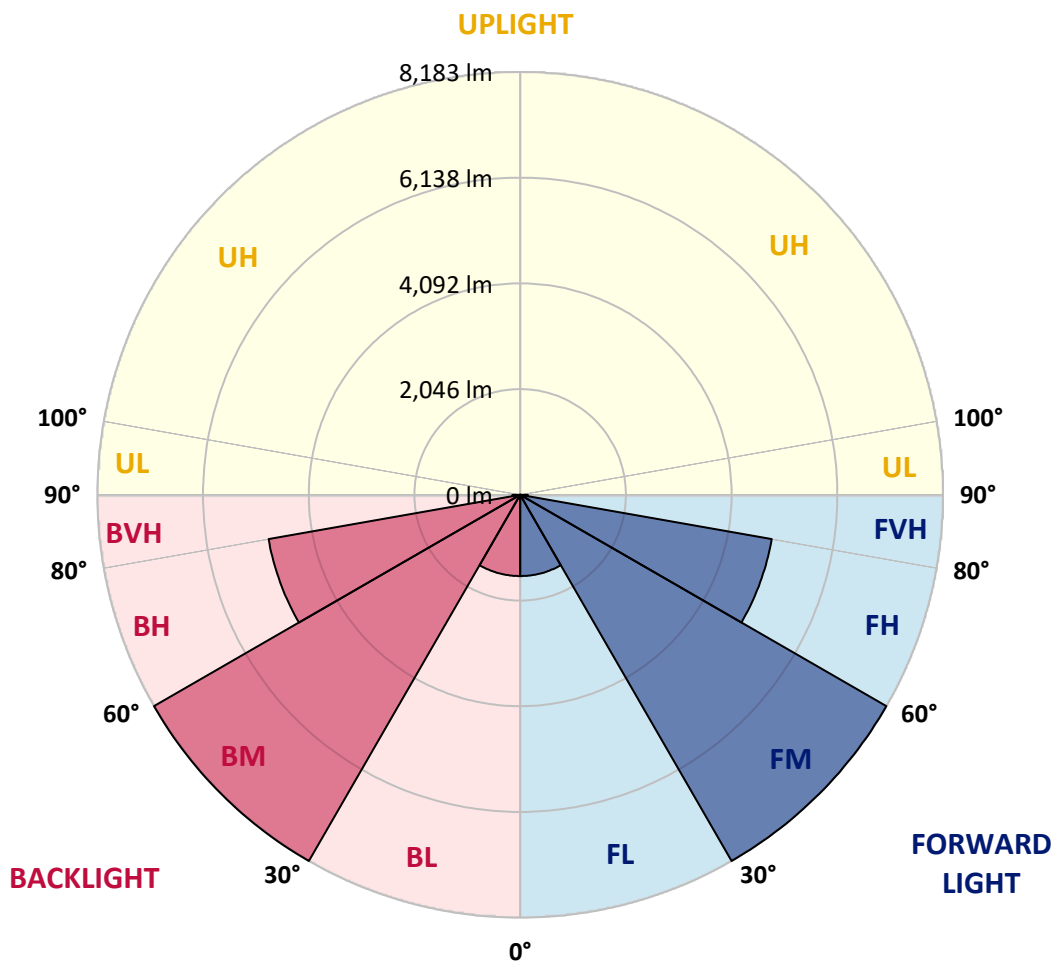
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1572.5	5.3			
FM	(30°-60°)	8183.5	27.6			
FH	(60°-80°)	4943.9	16.6			G2/5000
FVH	(80°-90°)	148.1	0.5			G2/225
BL	(0°-30°)	1572.5	5.3	B3/2500		
BM	(30°-60°)	8183.5	27.6	B4/8500		
BH	(60°-80°)	4943.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	148.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3288.4	3285.6	3288.4	3287.0	3289.8	3289.8	3292.6	3298.2	3298.2	3302.4	3301.0
5°	3256.1	3254.7	3258.9	3263.1	3267.3	3275.7	3284.2	3296.8	3306.6	3313.6	3320.6
7.5°	3192.9	3192.9	3198.5	3208.4	3218.2	3236.4	3256.1	3281.3	3306.6	3327.7	3345.9
10°	3141.0	3143.8	3150.8	3167.7	3184.5	3212.6	3239.2	3275.7	3310.8	3345.9	3374.0
12.5°	3110.1	3114.3	3127.0	3152.2	3180.3	3218.2	3258.9	3305.2	3344.5	3386.6	3414.7
15°	3119.9	3122.8	3141.0	3171.9	3208.4	3256.1	3310.8	3365.6	3411.9	3456.8	3494.7
17.5°	3174.7	3178.9	3199.9	3235.0	3272.9	3329.1	3388.0	3449.8	3507.3	3557.8	3604.1
20°	3272.9	3277.1	3303.8	3341.7	3386.6	3444.2	3503.1	3567.7	3632.2	3685.6	3737.5
22.5°	3411.9	3418.9	3444.2	3482.0	3532.6	3594.3	3664.5	3733.3	3795.0	3844.1	3890.5
25°	3594.3	3609.8	3633.6	3675.7	3729.1	3785.2	3861.0	3931.2	3990.1	4036.4	4070.1
27.5°	3852.6	3873.6	3891.9	3932.6	3984.5	4037.8	4113.6	4175.4	4231.5	4276.4	4301.7
30°	4195.0	4216.1	4234.3	4273.6	4321.3	4371.9	4443.4	4498.2	4533.3	4568.3	4566.9
32.5°	4610.4	4632.9	4639.9	4682.0	4731.1	4785.9	4850.4	4881.3	4909.4	4913.6	4888.3
35°	5075.0	5086.2	5114.3	5170.4	5226.6	5271.5	5333.2	5348.7	5348.7	5327.6	5271.5
37.5°	5584.5	5591.5	5630.8	5693.9	5751.5	5797.8	5839.9	5870.8	5855.3	5810.4	5716.4
40°	6143.1	6155.7	6211.8	6268.0	6332.5	6376.0	6420.9	6426.6	6411.1	6345.2	6217.4
42.5°	6676.4	6687.6	6743.7	6832.2	6916.4	6976.7	7018.8	7027.2	6978.1	6917.8	6759.2
45°	7135.3	7164.8	7237.8	7341.6	7463.7	7549.3	7606.9	7630.7	7587.2	7508.6	7324.8
47.5°	7498.8	7528.3	7632.1	7755.7	7907.2	8046.2	8141.6	8192.1	8180.9	8122.0	7921.3
50°	7765.5	7793.6	7905.8	8057.4	8234.2	8406.9	8569.7	8690.4	8732.5	8705.8	8522.0
52.5°	7796.4	7842.7	7974.6	8178.1	8408.3	8644.1	8875.6	9080.5	9219.5	9240.5	9104.4
55°	7365.5	7411.8	7594.3	7896.0	8238.5	8623.0	8993.5	9338.8	9612.5	9752.8	9681.2
57.5°	6349.4	6432.2	6624.4	6978.1	7482.0	8057.4	8648.3	9261.6	9818.8	10190.7	10262.3
60°	4865.9	4964.1	5157.8	5533.9	6095.3	6781.6	7570.4	8477.0	9460.9	10297.4	10797.0
62.5°	3121.3	3214.0	3417.5	3744.5	4202.0	4945.9	5792.2	6868.7	8190.7	9511.4	10701.6
65°	1604.2	1654.7	1761.4	1959.3	2315.7	2871.5	3630.8	4704.5	6216.0	7845.5	9566.2
67.5°	1016.1	1025.9	1049.8	1077.9	1169.1	1361.4	1715.1	2384.5	3628.0	5327.6	7341.6
70°	878.6	878.6	867.4	863.1	874.4	901.0	955.8	1111.6	1531.2	2529.1	4234.3
72.5°	804.2	795.8	776.1	760.7	757.9	757.9	769.1	793.0	860.3	1030.2	1657.5
75°	741.0	717.2	690.5	672.3	665.3	658.2	656.8	661.0	675.1	701.7	791.6
77.5°	663.8	633.0	602.1	583.8	575.4	565.6	557.2	547.4	540.3	548.8	588.1
80°	571.2	536.1	512.3	501.0	492.6	478.6	460.3	443.5	428.1	425.3	449.1
82.5°	460.3	419.6	421.0	425.3	409.8	390.2	370.5	352.3	325.6	311.6	325.6
85°	371.9	350.9	341.0	367.7	345.3	315.8	284.9	252.6	210.5	176.8	192.3
87.5°	144.6	144.6	216.1	332.6	298.9	244.2	209.1	178.2	110.9	85.6	87.0
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°	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3299.6	3302.4	3301.0	3299.6	3299.6	3298.2	3299.6	3299.6
5°	3324.9	3331.9	3331.9	3334.7	3334.7	3336.1	3337.5	3336.1
7.5°	3362.7	3375.4	3383.8	3393.6	3395.0	3396.4	3399.2	3396.4
10°	3400.6	3425.9	3444.2	3462.4	3470.8	3473.6	3476.4	3476.4
12.5°	3448.4	3483.4	3515.7	3548.0	3563.4	3571.9	3571.9	3577.5
15°	3527.0	3562.0	3599.9	3643.4	3670.1	3684.1	3688.4	3688.4
17.5°	3637.8	3668.7	3701.0	3743.1	3776.8	3795.0	3799.2	3797.8
20°	3767.0	3796.4	3814.7	3841.3	3870.8	3891.9	3897.5	3897.5
22.5°	3914.3	3931.2	3934.0	3942.4	3966.2	3994.3	4006.9	4009.8
25°	4077.1	4081.3	4070.1	4070.1	4085.5	4112.2	4124.8	4126.2
27.5°	4287.6	4266.6	4238.5	4228.7	4238.5	4269.4	4284.8	4290.5
30°	4550.1	4499.6	4435.0	4399.9	4394.3	4435.0	4463.1	4467.3
32.5°	4850.4	4777.5	4691.8	4620.3	4602.0	4627.3	4661.0	4659.6
35°	5206.9	5119.9	5016.1	4924.8	4882.7	4908.0	4955.7	4961.3
37.5°	5618.1	5504.5	5385.2	5270.1	5204.1	5211.1	5261.7	5278.5
40°	6077.1	5929.7	5779.5	5625.2	5531.1	5512.9	5574.6	5584.5
42.5°	6568.3	6378.8	6189.4	5998.5	5877.8	5849.7	5921.3	5917.1
45°	7091.8	6850.4	6628.7	6418.1	6275.0	6232.9	6291.8	6291.8
47.5°	7654.6	7357.1	7093.2	6854.6	6698.8	6638.5	6694.6	6698.8
50°	8251.1	7935.3	7625.1	7359.9	7173.2	7096.0	7169.0	7180.2
52.5°	8844.8	8537.4	8224.4	7921.3	7695.3	7601.3	7685.5	7722.0
55°	9446.9	9145.1	8846.2	8550.0	8282.0	8171.1	8260.9	8307.2
57.5°	10082.6	9803.3	9518.4	9219.5	8961.2	8788.6	8884.1	8945.8
60°	10827.9	10589.3	10293.2	9963.3	9702.3	9526.9	9581.6	9636.3
62.5°	11417.3	11510.0	11258.8	10877.0	10541.6	10317.0	10370.3	10427.9
65°	11132.4	12082.6	12305.8	11919.8	11455.2	11105.8	11083.3	11112.8
67.5°	9305.1	11150.7	12496.6	12864.3	12475.6	11990.0	11900.1	11943.7
70°	6224.5	8523.4	10898.1	12666.4	13136.6	12948.5	12860.1	12886.8
72.5°	2989.4	4964.1	7393.6	9744.4	11175.9	11832.8	12043.3	12145.8
75°	1093.3	1970.5	3563.4	5369.7	6482.7	7504.4	8171.1	8443.4
77.5°	659.6	795.8	1138.2	1713.7	1941.0	2172.6	2082.8	2127.7
80°	488.4	551.6	624.6	701.7	727.0	727.0	698.9	676.5
82.5°	342.5	383.2	418.2	460.3	471.6	450.5	370.5	294.7
85°	220.3	238.6	254.0	280.7	273.7	261.0	175.4	155.8
87.5°	101.1	115.1	120.7	133.3	127.7	122.1	87.0	73.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)