

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: P269603

Luminaire Tested: **GLEON-AF-09-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269603  
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-09-LED-E1-5MQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 39239.6 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 374  
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

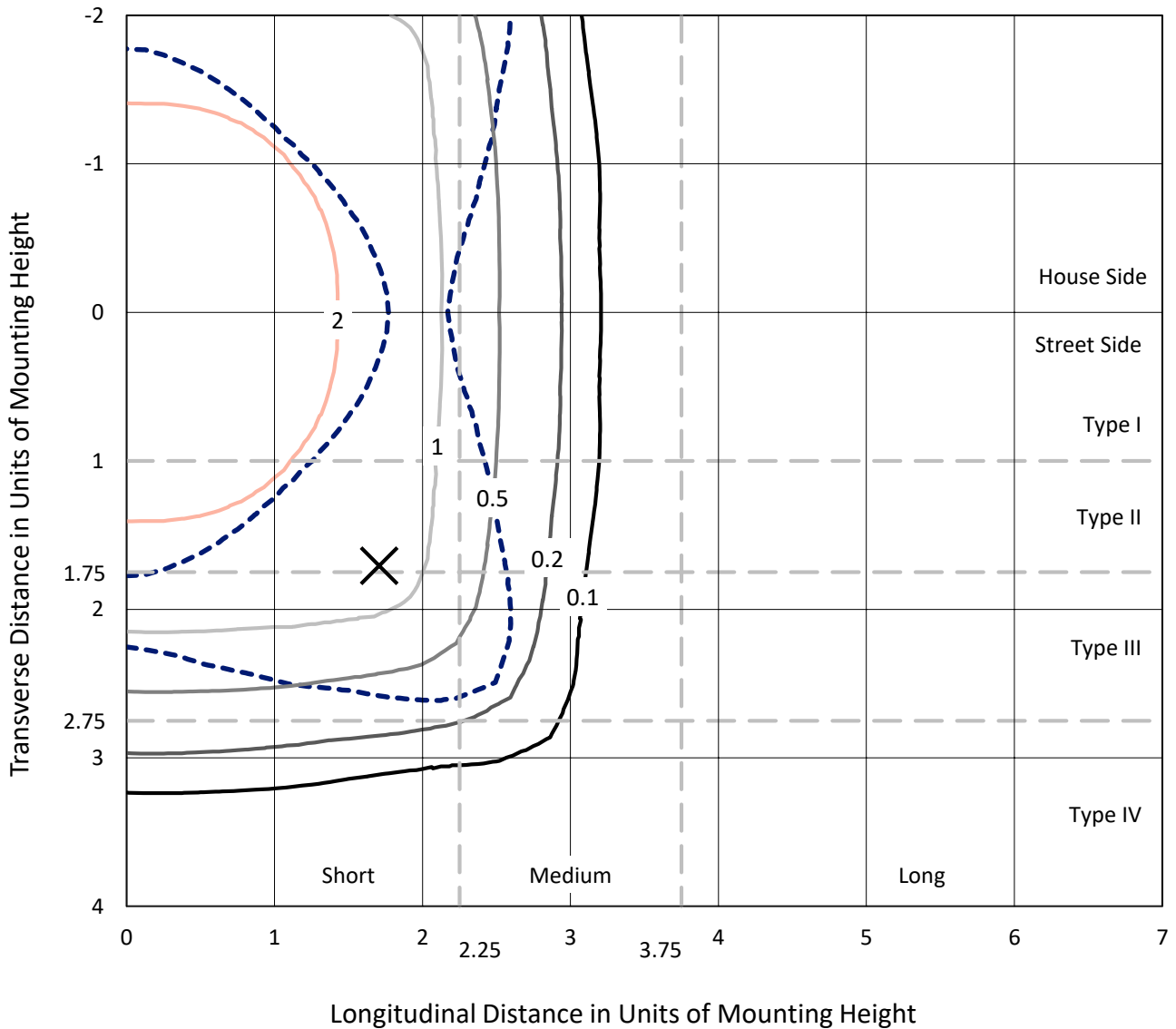


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### Iso-Footcandle Lines of Horizontal Illumination

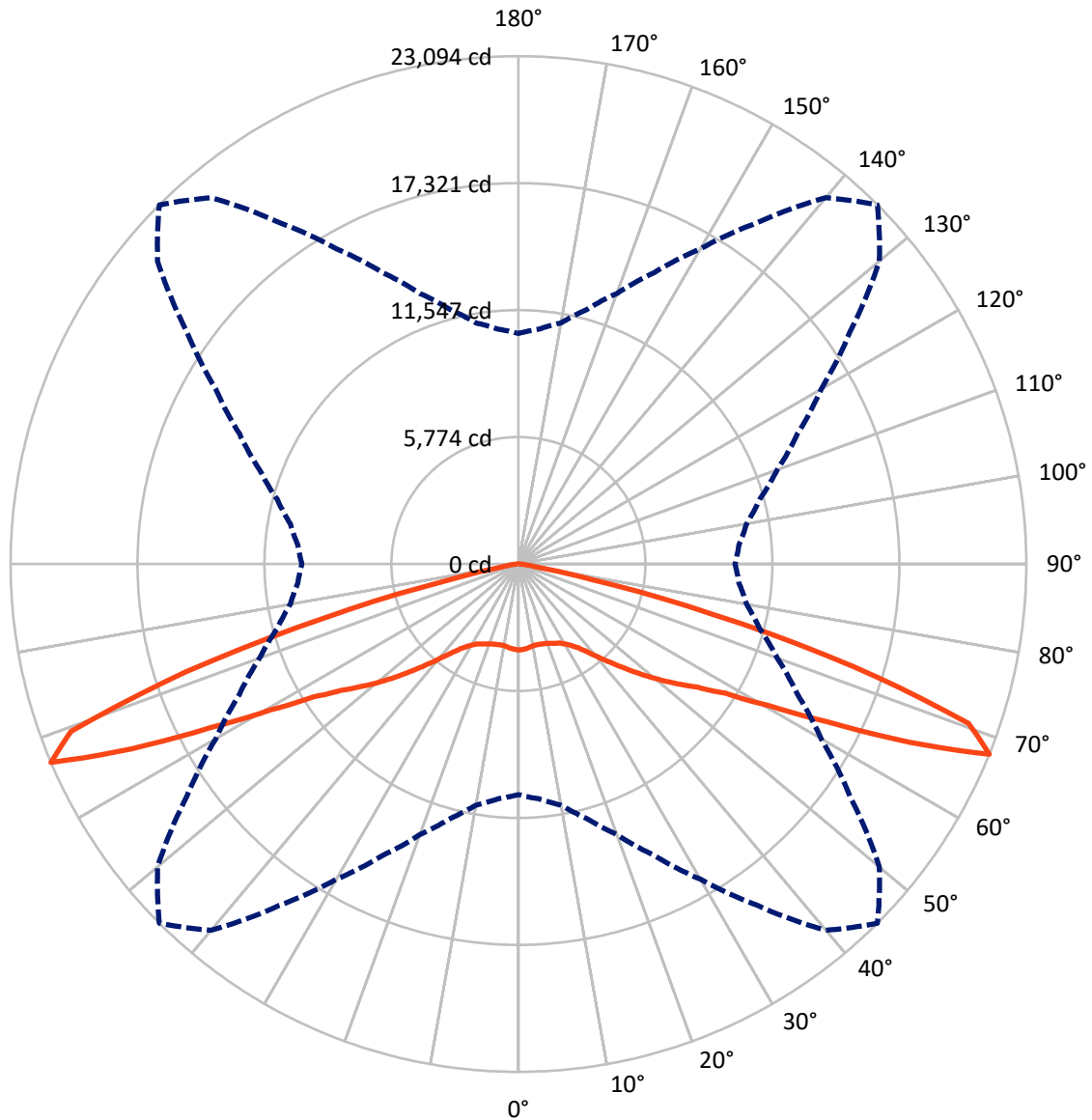
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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
<b>House Side</b>	Lumens	19619.8	0.0	19619.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19619.8	0.0	19619.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39239.6	0.0	39239.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.0	0.9
10°-20°	1062.0	2.7
20°-30°	1805.5	4.6
30°-40°	2951.4	7.5
40°-50°	5268.7	13.4
50°-60°	8883.2	22.6
60°-70°	13785.5	35.1
70°-80°	4843.6	12.3
80°-90°	273.7	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°	39239.6	100.0
0°-180°	39239.6	100.0



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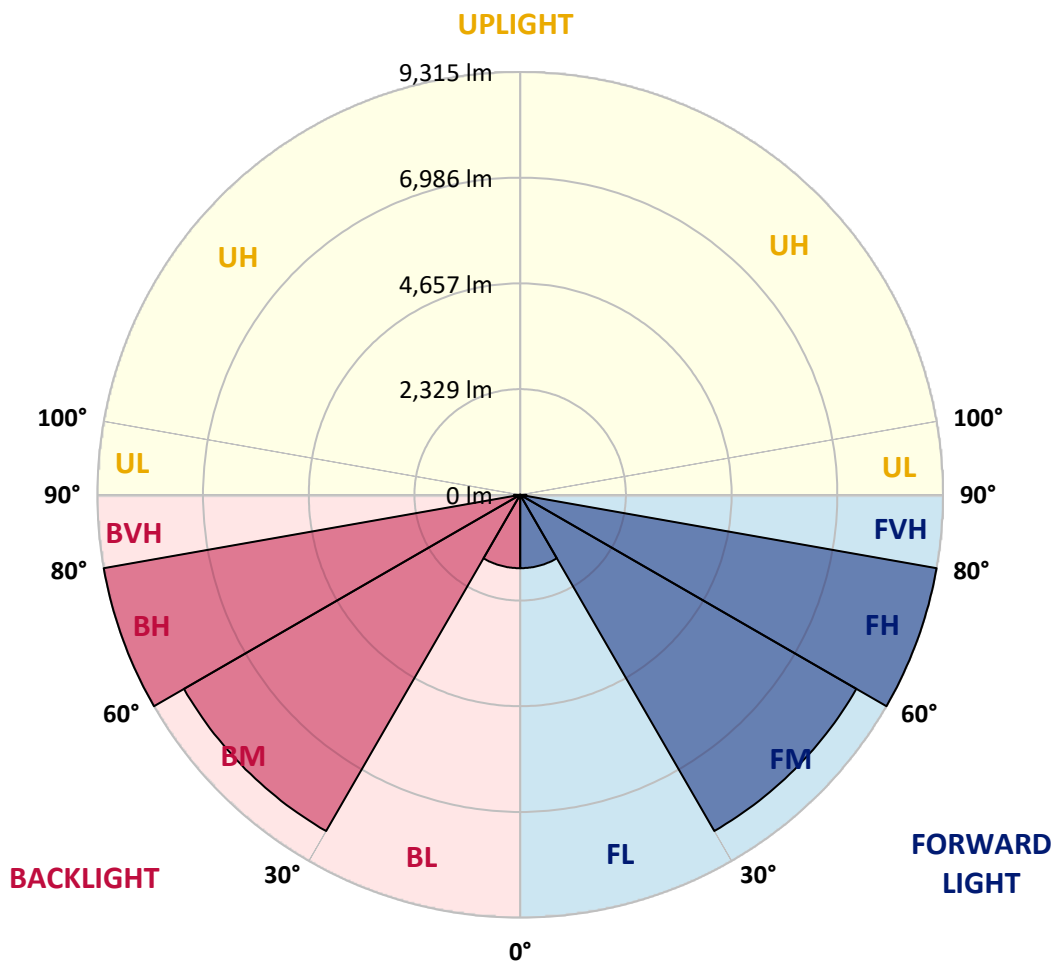
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1616.7	4.1			
FM	(30°-60°)	8551.7	21.8			
FH	(60°-80°)	9314.5	23.7			G4/12000
FVH	(80°-90°)	136.9	0.3			G2/225
BL	(0°-30°)	1616.7	4.1	B3/2500		
BM	(30°-60°)	8551.7	21.8	B5		
BH	(60°-80°)	9314.5	23.7	B5		G4/12000
BVH	(80°-90°)	136.9	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°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	3895.9	3899.5	3899.5	3899.5	3897.7	3897.7	3894.2	3897.7	3895.9	3890.6	3892.4
5°	3863.5	3867.2	3867.2	3865.2	3870.6	3868.9	3863.5	3867.2	3865.2	3861.6	3863.5
7.5°	3816.5	3822.0	3822.0	3820.1	3825.6	3823.7	3820.1	3822.0	3822.0	3816.5	3816.5
10°	3764.3	3767.9	3767.9	3766.1	3775.0	3775.0	3773.2	3778.7	3780.4	3775.0	3771.4
12.5°	3715.5	3720.9	3720.9	3728.1	3737.2	3740.8	3749.7	3757.0	3764.3	3762.5	3755.3
15°	3686.6	3690.2	3697.5	3706.4	3720.9	3733.5	3748.0	3764.3	3778.7	3782.3	3771.4
17.5°	3668.6	3674.0	3684.8	3697.5	3717.2	3738.9	3760.7	3782.3	3802.2	3809.4	3796.6
20°	3663.2	3666.8	3677.7	3699.3	3726.3	3758.8	3789.5	3814.7	3841.8	3850.9	3841.8
22.5°	3674.0	3681.3	3693.8	3719.2	3755.3	3796.6	3832.8	3867.2	3901.3	3917.6	3905.0
25°	3722.8	3729.9	3746.2	3778.7	3818.3	3861.6	3903.1	3942.9	3973.6	3989.8	3980.7
27.5°	3812.9	3822.0	3841.8	3874.3	3917.6	3964.5	4009.7	4042.2	4067.3	4072.7	4062.0
30°	3948.3	3968.2	3991.6	4027.7	4078.2	4117.9	4163.0	4191.9	4222.6	4222.6	4213.6
32.5°	4159.4	4179.3	4204.5	4238.8	4278.4	4321.8	4361.5	4386.9	4419.3	4421.1	4399.4
35°	4475.1	4484.2	4505.9	4527.5	4563.6	4601.5	4635.9	4652.1	4679.1	4680.9	4661.0
37.5°	4892.1	4893.8	4908.2	4915.5	4948.0	4989.5	5022.0	5032.8	5058.0	5054.5	5034.6
40°	5377.4	5386.4	5391.8	5402.8	5437.0	5476.7	5511.0	5516.4	5543.5	5538.1	5512.8
42.5°	5938.6	5942.3	5973.0	5989.2	6021.7	6041.6	6084.8	6090.2	6122.8	6108.4	6079.4
45°	6568.4	6600.9	6629.9	6662.3	6696.5	6720.0	6754.4	6747.1	6768.8	6747.1	6730.9
47.5°	7230.6	7254.2	7319.1	7369.6	7425.6	7445.4	7494.2	7472.6	7494.2	7463.5	7458.1
50°	7959.7	8001.3	8057.2	8114.8	8174.4	8206.9	8270.2	8243.0	8272.0	8243.0	8226.8
52.5°	8677.9	8688.8	8811.5	8896.3	8979.3	9017.1	9055.0	9042.5	9044.2	9042.5	9026.2
55°	9360.0	9385.3	9508.0	9623.5	9767.9	9874.3	9939.2	9932.1	9915.9	9899.6	9872.6
57.5°	10128.7	10154.0	10294.8	10437.3	10601.5	10753.2	10884.9	11020.1	11072.5	11087.1	11027.5
60°	11168.2	11166.4	11354.0	11527.3	11761.9	11987.4	12276.1	12570.3	12907.7	13064.7	12857.3
62.5°	12225.7	12269.0	12539.6	12846.4	13329.9	13801.0	14333.3	14856.6	15390.8	15825.6	15363.7
65°	12099.4	12265.3	12667.7	13362.5	14255.7	15316.8	16464.5	17678.9	18776.1	19530.3	18683.9
67.5°	10486.0	10722.4	11132.1	11976.7	13093.5	14623.9	16551.0	18952.9	21744.5	23094.3	21421.4
70°	7600.6	7867.7	8297.1	9121.8	10228.0	11682.5	13775.7	16659.3	20355.0	21715.5	19873.2
72.5°	3782.3	3926.6	4191.9	4717.0	5554.3	6734.5	8632.8	11404.5	14674.4	15923.0	14239.5
75°	1284.8	1351.6	1396.8	1568.1	1833.4	2297.1	3240.9	4986.0	7606.0	9118.2	7497.8
77.5°	741.7	743.4	774.1	804.8	849.9	900.5	1026.8	1347.9	2331.5	3311.3	2412.7
80°	480.1	478.2	503.5	526.9	557.6	582.9	590.0	624.3	720.0	853.5	763.3
82.5°	249.0	279.7	335.6	366.2	424.1	434.9	420.4	407.8	431.2	447.5	458.3
85°	137.1	119.0	178.7	231.0	256.2	259.9	259.9	245.3	254.4	249.0	270.7
87.5°	63.2	57.8	70.3	113.6	120.9	102.9	108.2	95.6	68.6	66.7	75.7
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°	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4	3910.4
2.5°	3892.4	3894.2	3894.2	3899.5	3901.3	3905.0	3908.5	3910.4
5°	3861.6	3867.2	3863.5	3868.9	3868.9	3872.6	3872.6	3874.3
7.5°	3816.5	3822.0	3822.0	3822.0	3820.1	3825.6	3825.6	3825.6
10°	3769.6	3773.2	3771.4	3767.9	3764.3	3769.6	3767.9	3766.1
12.5°	3755.3	3746.2	3738.9	3735.3	3728.1	3729.9	3724.6	3724.6
15°	3764.3	3748.0	3735.3	3729.9	3722.8	3719.2	3715.5	3717.2
17.5°	3787.8	3767.9	3751.6	3742.6	3733.5	3728.1	3720.9	3722.8
20°	3829.1	3805.7	3782.3	3764.3	3748.0	3738.9	3733.5	3731.7
22.5°	3890.6	3856.2	3822.0	3794.9	3773.2	3760.7	3755.3	3751.6
25°	3960.9	3923.0	3883.4	3852.7	3831.0	3814.7	3804.0	3804.0
27.5°	4049.3	4018.7	3982.5	3946.4	3926.6	3910.4	3903.1	3899.5
30°	4197.3	4168.4	4139.6	4105.3	4080.0	4063.8	4051.1	4040.3
32.5°	4386.9	4363.3	4339.9	4314.6	4291.2	4269.6	4249.6	4240.5
35°	4653.8	4635.9	4619.5	4590.7	4581.6	4569.0	4558.2	4549.1
37.5°	5022.0	5014.8	5014.8	4984.1	4976.9	4971.5	4960.6	4962.4
40°	5505.6	5512.8	5503.7	5493.0	5487.6	5473.2	5473.2	5485.7
42.5°	6077.7	6083.1	6102.8	6084.8	6104.7	6086.6	6075.9	6084.8
45°	6741.7	6761.5	6801.2	6783.2	6795.8	6765.1	6727.2	6729.1
47.5°	7487.0	7505.0	7521.1	7508.7	7510.4	7459.9	7409.4	7396.7
50°	8261.2	8268.3	8277.3	8259.2	8262.9	8206.9	8149.2	8151.0
52.5°	9026.2	9060.5	9096.5	9047.9	9036.9	8973.9	8892.7	8860.3
55°	9901.4	9950.2	9908.7	9823.9	9739.0	9654.2	9547.7	9529.7
57.5°	10980.5	10897.5	10767.5	10606.9	10489.7	10370.6	10262.2	10217.2
60°	12481.9	12169.7	11935.2	11696.9	11547.2	11401.0	11258.4	11236.8
62.5°	14603.9	14064.5	13597.0	13104.5	12702.0	12388.0	12137.2	12066.8
65°	17263.8	15988.0	14882.0	13849.7	12952.8	12276.1	11850.4	11662.6
67.5°	18407.9	15888.9	13992.3	12527.0	11354.0	10534.9	10074.6	9845.5
70°	16175.7	13176.6	11114.0	9647.0	8578.6	7705.3	7288.5	7043.0
72.5°	11128.5	8381.9	6628.1	5410.0	4556.5	3825.6	3536.8	3515.2
75°	4996.7	3309.4	2280.8	1757.7	1479.7	1286.6	1227.1	1182.0
77.5°	1398.5	1033.9	922.1	862.6	804.8	738.0	712.7	718.1
80°	680.2	642.4	617.1	579.2	526.9	471.0	445.6	456.6
82.5°	451.0	445.6	462.0	434.9	359.1	305.0	256.2	234.5
85°	274.3	277.8	283.3	285.1	241.9	169.6	115.5	130.0
87.5°	108.2	124.5	135.4	140.8	131.7	81.1	64.9	66.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)