

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: P191662

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-5NQ-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27171 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

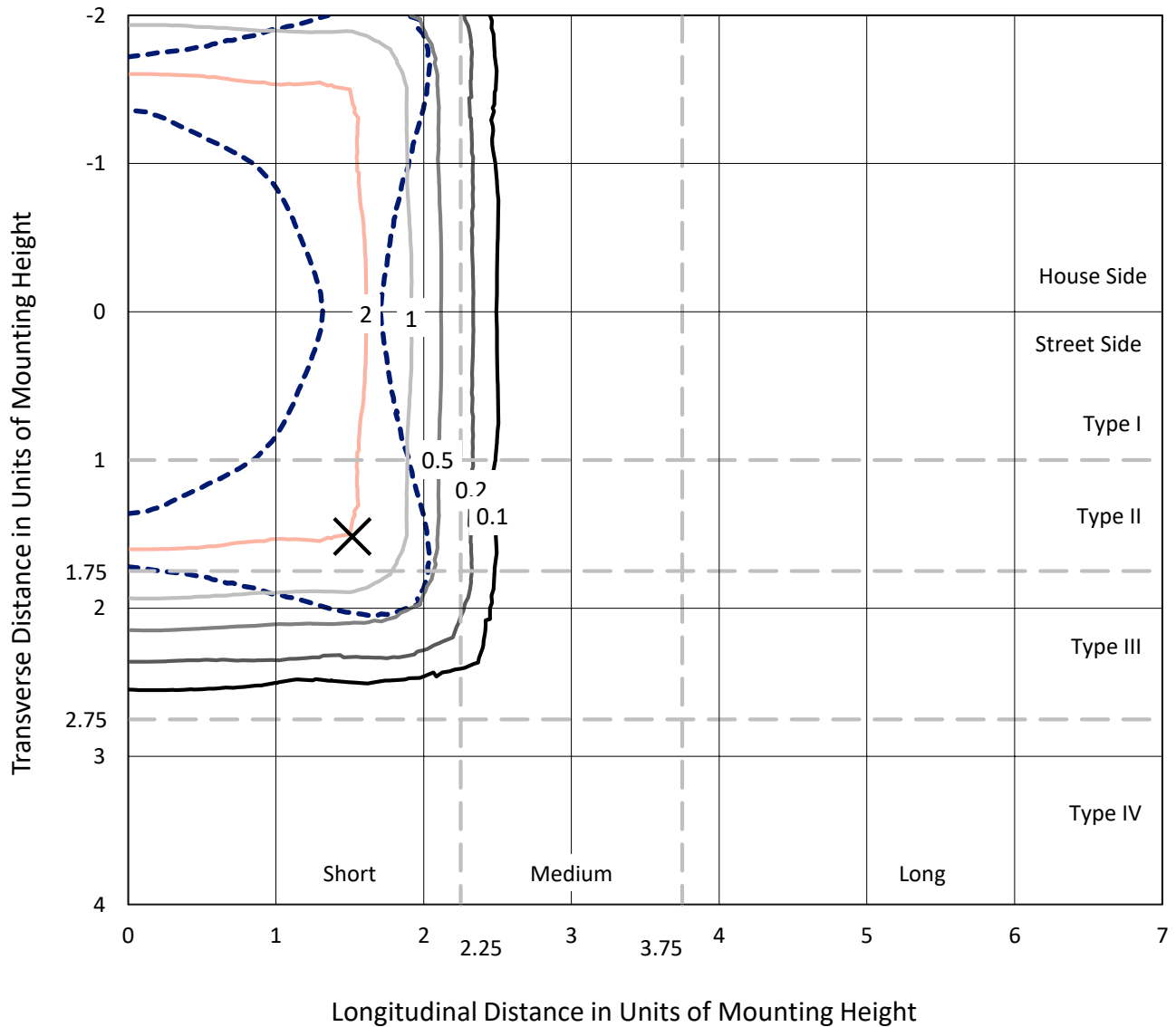
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191662  
 CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

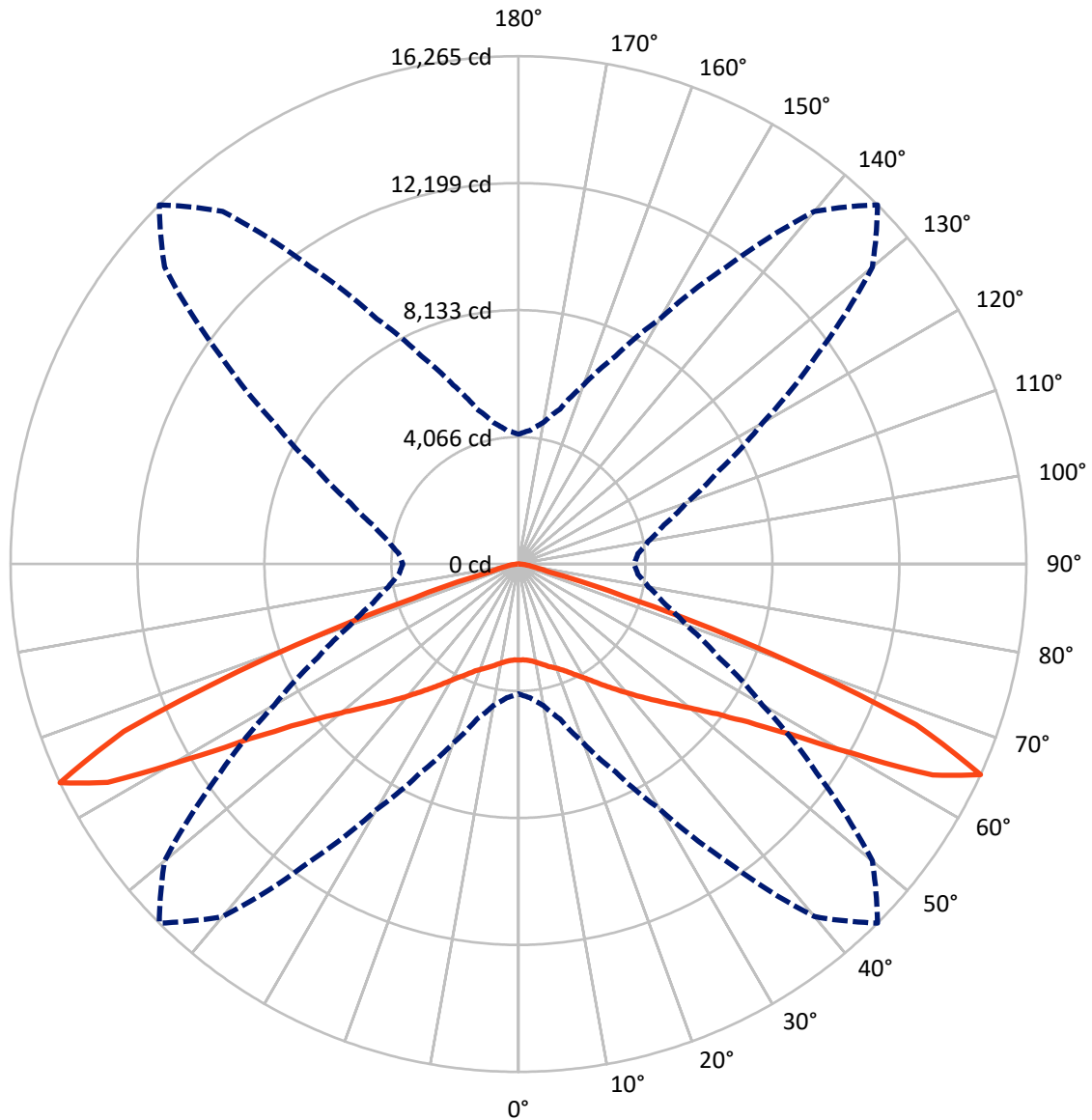


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P191662

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P191662

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13585.5	0.0	13585.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13585.5	0.0	13585.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27171.0	0.0	27171.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.7	1.1
10°-20°	961.1	3.5
20°-30°	1797.0	6.6
30°-40°	3039.2	11.2
40°-50°	4969.4	18.3
50°-60°	7902.2	29.1
60°-70°	7143.0	26.3
70°-80°	904.0	3.3
80°-90°	155.5	0.6
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°	27171.0	100.0
0°-180°	27171.0	100.0



REPORT NUMBER: P191662

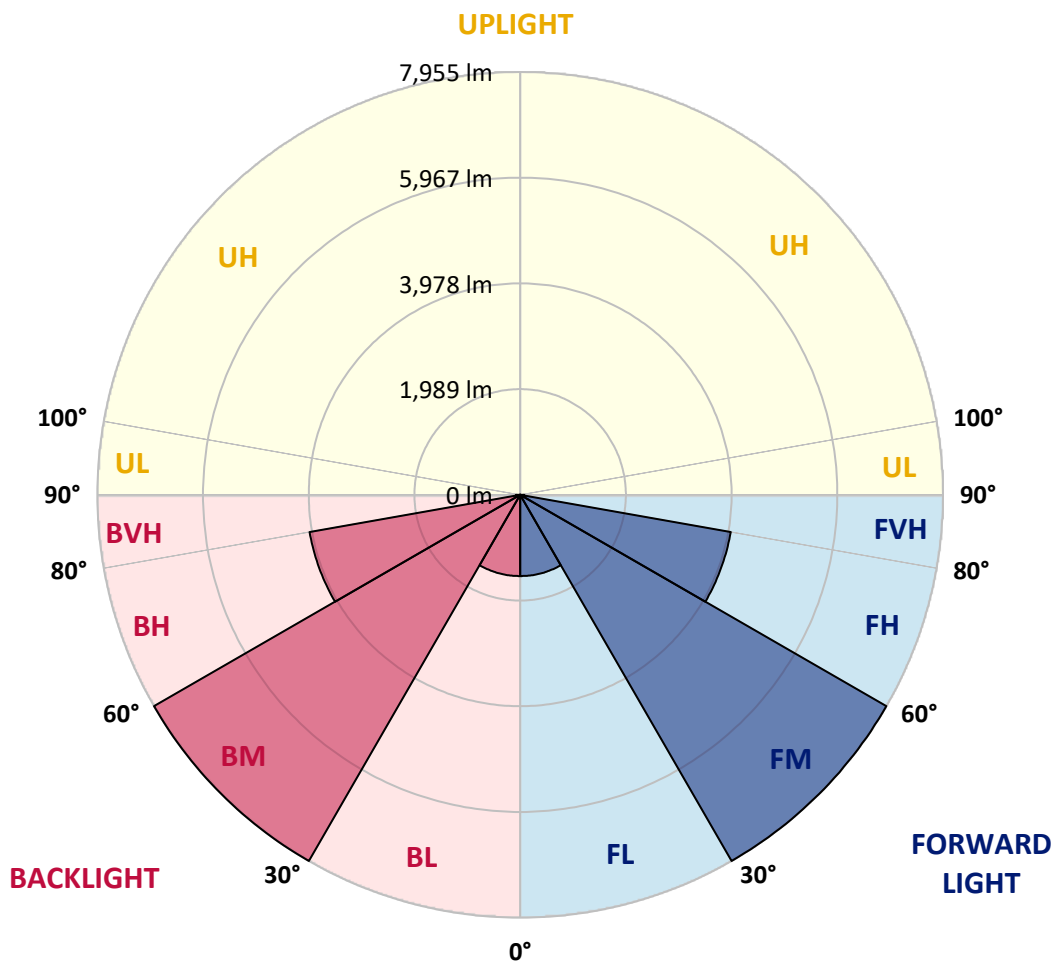
CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1528.8	5.6			
FM	(30°-60°)	7955.4	29.3			
FH	(60°-80°)	4023.5	14.8			G2/5000
FVH	(80°-90°)	77.8	0.3			G1/100
BL	(0°-30°)	1528.8	5.6	B3/2500		
BM	(30°-60°)	7955.4	29.3	B4/8500		
BH	(60°-80°)	4023.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	77.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P191662

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3077.0	3079.5	3082.0	3079.5	3082.0	3078.2	3075.7	3079.5	3075.7	3071.9	3074.4
5°	3103.7	3105.0	3105.0	3101.1	3105.0	3102.4	3098.6	3103.7	3099.9	3096.0	3098.6
7.5°	3148.2	3153.3	3149.5	3145.7	3148.2	3145.7	3143.1	3144.4	3143.1	3139.3	3140.6
10°	3208.0	3211.8	3209.3	3208.0	3210.6	3209.3	3206.8	3205.5	3206.8	3202.9	3202.9
12.5°	3280.6	3279.3	3278.0	3279.3	3283.1	3283.1	3281.8	3283.1	3285.7	3286.9	3284.4
15°	3351.8	3354.4	3354.4	3354.4	3362.0	3368.4	3372.2	3374.7	3379.8	3381.1	3376.0
17.5°	3440.9	3440.9	3439.6	3440.9	3448.5	3458.7	3462.5	3467.6	3472.7	3476.5	3470.2
20°	3540.2	3542.7	3542.7	3545.2	3555.4	3566.9	3566.9	3569.4	3566.9	3569.4	3565.6
22.5°	3661.0	3668.7	3668.7	3670.0	3680.1	3694.1	3690.3	3694.1	3687.8	3692.9	3687.8
25°	3818.8	3830.3	3827.7	3827.7	3835.4	3844.3	3845.6	3853.2	3851.9	3858.3	3854.5
27.5°	3997.0	4014.8	4019.9	4018.6	4023.7	4032.6	4035.2	4044.1	4039.0	4044.1	4041.5
30°	4210.8	4218.4	4228.6	4232.4	4238.8	4247.7	4247.7	4249.0	4242.6	4250.2	4254.0
32.5°	4432.2	4446.2	4456.4	4479.3	4490.7	4497.1	4495.8	4498.4	4492.0	4502.2	4509.8
35°	4724.9	4735.1	4751.6	4769.4	4784.7	4783.4	4779.6	4780.9	4780.9	4789.8	4797.4
37.5°	5077.4	5079.9	5101.5	5127.0	5134.6	5127.0	5104.1	5099.0	5087.5	5099.0	5111.7
40°	5450.2	5459.1	5502.4	5518.9	5522.7	5508.7	5475.7	5456.6	5431.1	5445.1	5462.9
42.5°	5840.9	5858.7	5898.1	5927.4	5940.1	5931.2	5885.4	5856.1	5823.1	5830.7	5848.5
45°	6273.5	6295.2	6351.2	6379.2	6403.3	6389.3	6344.8	6300.3	6248.1	6251.9	6279.9
47.5°	6757.1	6778.7	6851.3	6898.3	6911.1	6908.5	6858.9	6797.8	6726.6	6724.0	6748.2
50°	7299.2	7320.8	7411.2	7483.7	7520.6	7516.8	7458.3	7371.7	7285.2	7286.5	7317.0
52.5°	7828.6	7855.3	7949.4	8074.2	8146.7	8198.9	8163.2	8081.8	7976.2	7978.7	8006.7
55°	8324.8	8369.4	8477.5	8646.8	8781.7	8928.0	8970.0	8967.5	8903.8	8921.7	8949.6
57.5°	8565.3	8631.5	8798.2	9065.4	9340.3	9638.1	9890.0	10078.4	10158.5	10279.4	10251.4
60°	8109.8	8215.4	8461.0	8854.2	9397.6	10018.6	10684.1	11334.4	11889.2	12307.8	12067.3
62.5°	6640.0	6777.5	7075.2	7579.1	8401.2	9395.0	10668.8	12206.0	13880.7	14891.1	14169.5
65°	4154.8	4297.3	4600.2	5139.7	6101.7	7337.4	9065.4	11613.0	14742.2	16265.4	14796.9
67.5°	1619.9	1697.5	1861.7	2206.6	2929.3	4028.8	5763.3	8654.4	12396.9	13731.8	12166.6
70°	811.9	819.5	850.0	913.7	1068.9	1388.3	2112.4	4012.3	7109.6	8587.0	6853.8
72.5°	586.6	587.9	603.2	631.2	680.8	752.1	889.5	1228.0	2312.2	3533.8	2167.1
75°	449.2	454.3	463.2	478.5	505.2	540.8	590.5	707.5	876.8	1016.7	855.1
77.5°	346.1	356.3	362.7	376.7	393.2	417.4	431.4	475.9	553.5	582.8	573.9
80°	263.4	272.3	286.3	297.8	309.2	320.7	315.6	335.9	376.7	400.8	388.1
82.5°	168.0	178.2	218.9	229.1	234.1	241.8	232.9	234.1	252.0	267.2	252.0
85°	108.2	114.5	138.7	151.4	152.7	157.8	154.0	145.1	145.1	132.3	148.9
87.5°	49.6	50.9	62.4	73.8	76.4	68.7	67.4	64.9	52.2	49.6	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191662

CATALOG NUMBER: GLEON-AF-04-LED-E1-5NQ-7050-1200

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4	3074.4
2.5°	3073.1	3075.7	3077.0	3080.8	3082.0	3082.0	3083.3	3085.9
5°	3097.3	3101.1	3102.4	3107.5	3108.8	3107.5	3110.0	3111.3
7.5°	3140.6	3146.9	3149.5	3154.6	3150.8	3155.9	3157.1	3157.1
10°	3204.2	3210.6	3211.8	3216.9	3214.4	3216.9	3216.9	3214.4
12.5°	3288.2	3289.5	3285.7	3289.5	3284.4	3286.9	3283.1	3280.6
15°	3381.1	3377.3	3368.4	3368.4	3360.7	3362.0	3360.7	3359.5
17.5°	3471.4	3463.8	3457.4	3454.9	3448.5	3447.3	3443.4	3443.4
20°	3570.7	3566.9	3563.1	3558.0	3551.6	3545.2	3544.0	3546.5
22.5°	3690.3	3689.0	3689.0	3686.5	3677.6	3671.2	3667.4	3667.4
25°	3850.7	3839.2	3839.2	3837.9	3834.1	3830.3	3822.7	3826.5
27.5°	4031.3	4025.0	4030.1	4028.8	4025.0	4025.0	4019.9	4019.9
30°	4254.0	4251.5	4259.1	4252.8	4240.0	4238.8	4233.7	4227.3
32.5°	4511.1	4508.5	4520.0	4512.4	4492.0	4480.6	4470.4	4465.3
35°	4797.4	4798.7	4812.7	4807.6	4784.7	4777.0	4759.2	4756.7
37.5°	5110.4	5130.8	5155.0	5160.1	5141.0	5135.9	5116.8	5106.6
40°	5478.2	5504.9	5541.8	5550.7	5530.4	5526.6	5499.8	5485.8
42.5°	5870.1	5916.0	5961.8	5969.4	5949.0	5928.7	5903.2	5893.0
45°	6307.9	6362.6	6422.4	6437.7	6407.1	6383.0	6349.9	6349.9
47.5°	6799.1	6867.8	6935.2	6977.2	6949.2	6923.8	6884.3	6858.9
50°	7379.4	7473.5	7561.3	7604.6	7560.1	7511.7	7443.0	7420.1
52.5°	8107.2	8209.0	8285.4	8262.5	8193.8	8126.3	8051.2	8020.7
55°	9036.2	9070.5	9070.5	8984.0	8846.6	8733.3	8615.0	8575.5
57.5°	10198.0	10065.6	9862.0	9603.7	9279.2	8996.7	8805.9	8715.5
60°	11563.4	10927.1	10208.2	9501.9	8921.7	8443.2	8159.4	8029.6
62.5°	12473.3	10808.8	9368.3	8234.5	7399.7	6823.3	6431.3	6278.6
65°	11657.6	9014.5	7085.4	5728.9	4819.0	4232.4	3844.3	3701.8
67.5°	8538.6	5648.7	3773.0	2704.1	1981.3	1580.5	1421.4	1355.2
70°	3832.8	1989.0	1219.1	951.8	820.8	753.3	724.1	713.9
72.5°	1155.5	836.0	705.0	636.3	584.1	551.0	526.8	524.3
75°	697.3	580.3	515.4	474.7	441.6	414.8	402.1	398.3
77.5°	487.4	426.3	395.8	366.5	341.0	320.7	309.2	300.3
80°	342.3	313.0	299.0	282.5	266.0	246.9	230.3	222.7
82.5°	229.1	222.7	222.7	212.5	198.5	180.7	147.6	140.0
85°	147.6	146.3	148.9	145.1	134.9	115.8	95.4	90.3
87.5°	68.7	70.0	77.6	76.4	73.8	61.1	48.4	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)