

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: P193403

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193403
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-05-LED-E1-5NQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 27470 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 320
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

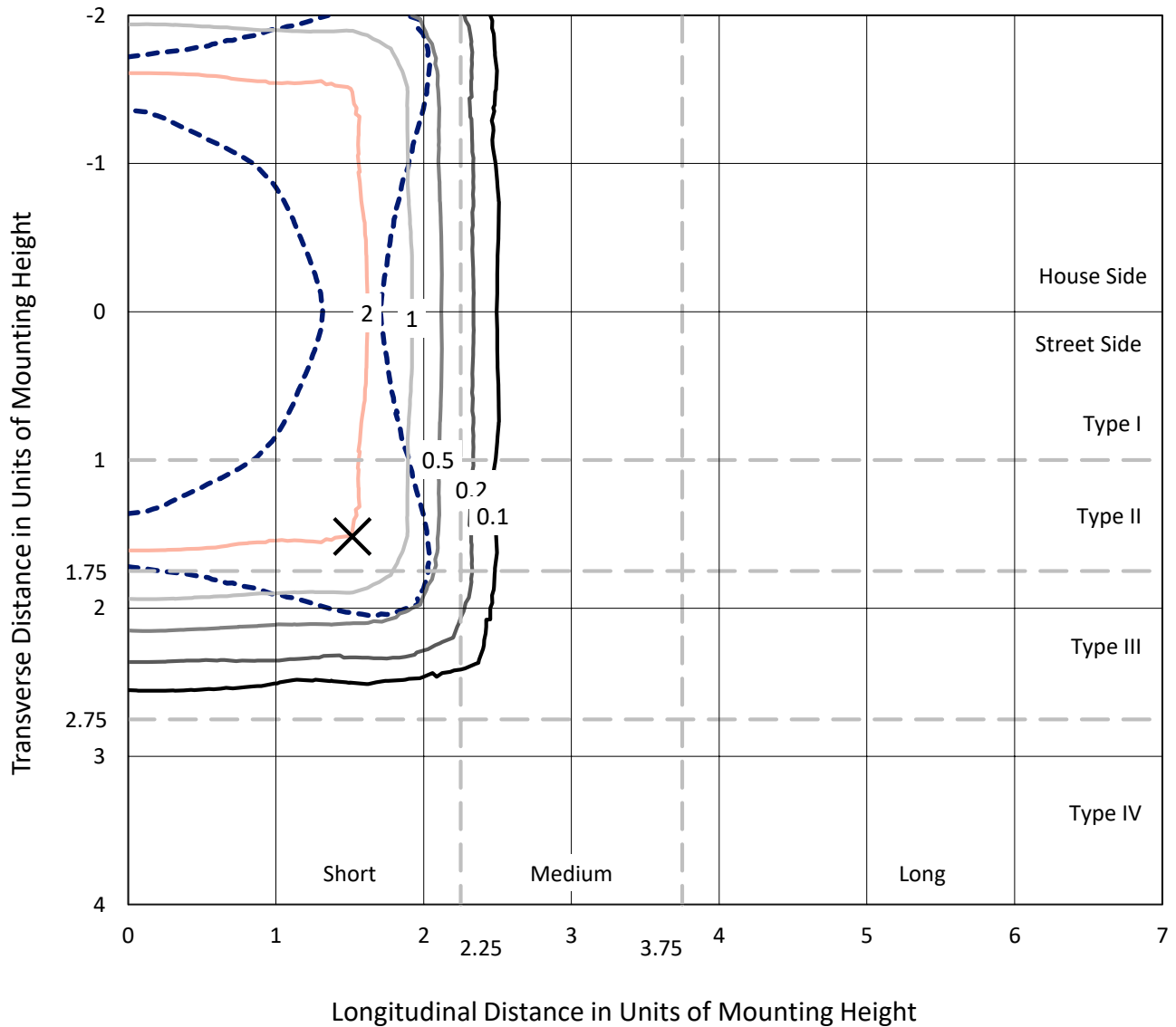


REPORT NUMBER: P193403

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

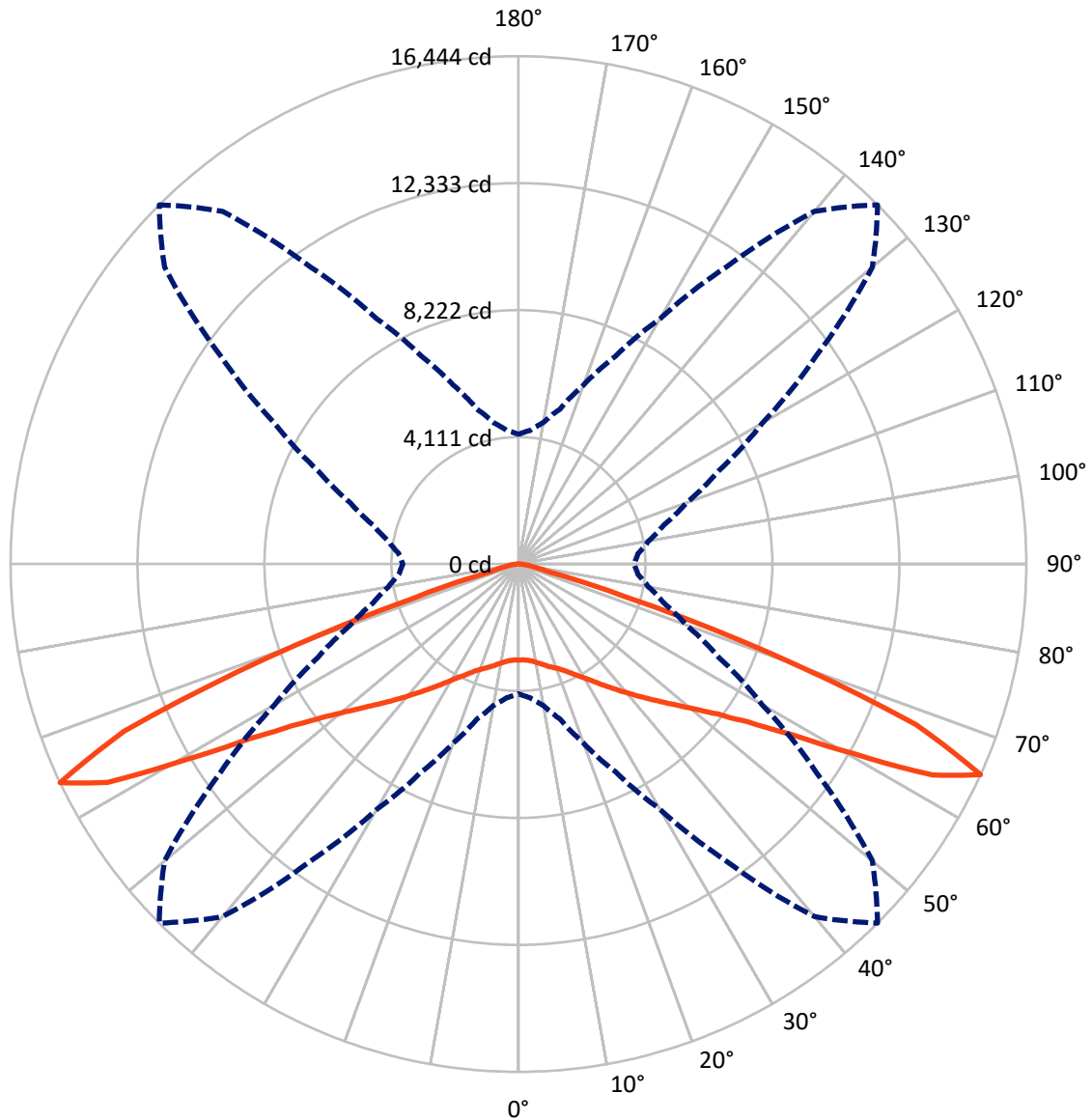
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P193403
CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193403

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13735.0	0.0	13735.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13735.0	0.0	13735.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27470.0	0.0	27470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.0	1.1
10°-20°	971.6	3.5
20°-30°	1816.8	6.6
30°-40°	3072.6	11.2
40°-50°	5024.1	18.3
50°-60°	7989.1	29.1
60°-70°	7221.6	26.3
70°-80°	913.9	3.3
80°-90°	157.2	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°	27470.0	100.0
0°-180°	27470.0	100.0



REPORT NUMBER: P193403

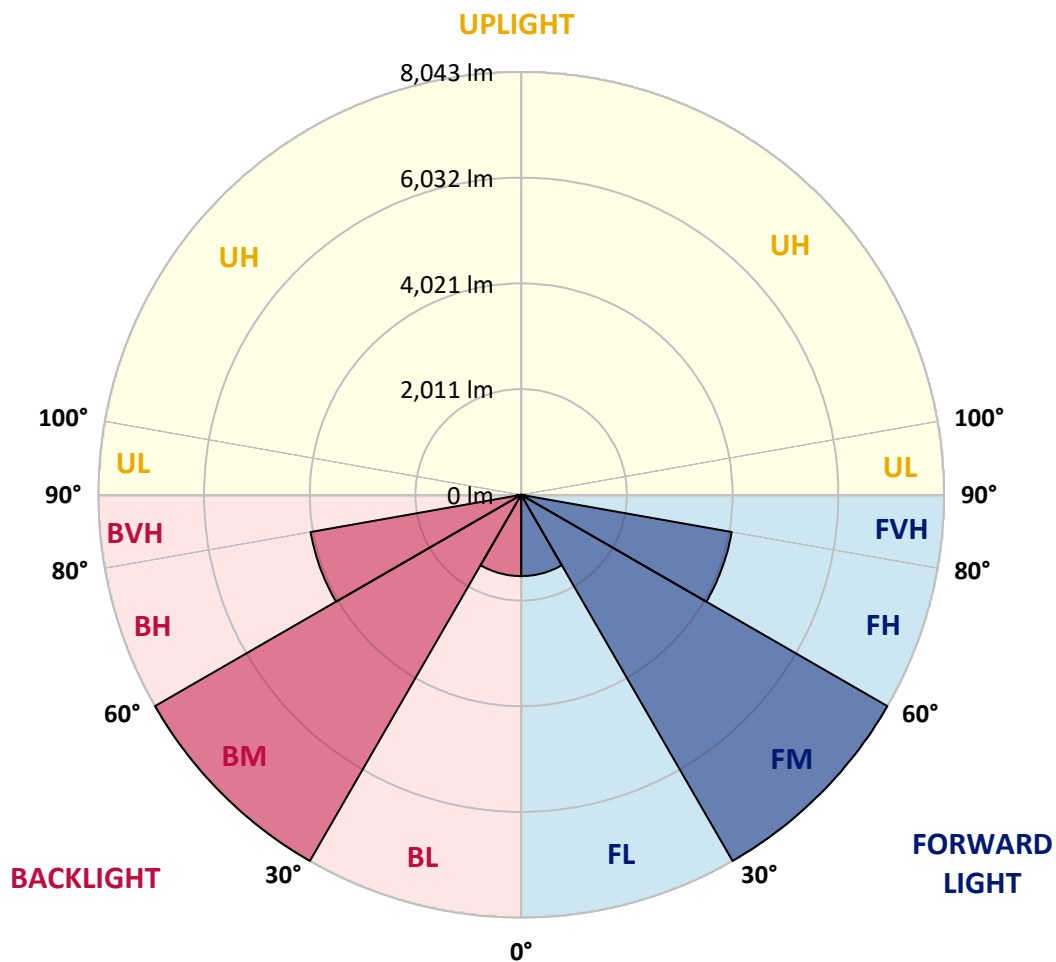
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.7	5.6			
FM	(30°-60°)	8042.9	29.3			
FH	(60°-80°)	4067.8	14.8			G2/5000
FVH	(80°-90°)	78.6	0.3			G1/100
BL	(0°-30°)	1545.7	5.6	B3/2500		
BM	(30°-60°)	8042.9	29.3	B4/8500		
BH	(60°-80°)	4067.8	14.8	B4/5000		G2/5000
BVH	(80°-90°)	78.6	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: P193403

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2
2.5°	3110.8	3113.4	3116.0	3113.4	3116.0	3112.1	3109.5	3113.4	3109.5	3105.7	3108.2
5°	3137.8	3139.1	3139.1	3135.3	3139.1	3136.5	3132.7	3137.8	3134.0	3130.1	3132.7
7.5°	3182.9	3188.0	3184.2	3180.3	3182.9	3180.3	3177.7	3179.0	3177.7	3173.9	3175.1
10°	3243.3	3247.2	3244.6	3243.3	3245.9	3244.6	3242.0	3240.8	3242.0	3238.2	3238.2
12.5°	3316.7	3315.4	3314.1	3315.4	3319.2	3319.2	3317.9	3319.2	3321.8	3323.1	3320.5
15°	3388.7	3391.3	3391.3	3391.3	3399.0	3405.4	3409.3	3411.9	3417.0	3418.3	3413.2
17.5°	3478.8	3478.8	3477.5	3478.8	3486.5	3496.8	3500.6	3505.8	3510.9	3514.8	3508.4
20°	3579.1	3581.7	3581.7	3584.3	3594.6	3606.1	3606.1	3608.7	3606.1	3608.7	3604.8
22.5°	3701.3	3709.1	3709.1	3710.3	3720.6	3734.8	3730.9	3734.8	3728.4	3733.5	3728.4
25°	3860.9	3872.4	3869.9	3869.9	3877.6	3886.6	3887.9	3895.6	3894.3	3900.7	3896.9
27.5°	4041.0	4059.0	4064.1	4062.8	4068.0	4077.0	4079.6	4088.6	4083.4	4088.6	4086.0
30°	4257.1	4264.8	4275.1	4279.0	4285.4	4294.4	4294.4	4295.7	4289.3	4297.0	4300.9
32.5°	4481.0	4495.1	4505.4	4528.6	4540.1	4546.6	4545.3	4547.9	4541.4	4551.7	4559.4
35°	4776.9	4787.2	4803.9	4821.9	4837.3	4836.0	4832.2	4833.5	4833.5	4842.5	4850.2
37.5°	5133.2	5135.8	5157.7	5183.4	5191.1	5183.4	5160.3	5155.1	5143.5	5155.1	5168.0
40°	5510.2	5519.2	5562.9	5579.7	5583.5	5569.4	5535.9	5516.6	5490.9	5505.0	5523.1
42.5°	5905.2	5923.2	5963.0	5992.6	6005.5	5996.5	5950.2	5920.6	5887.1	5894.9	5912.9
45°	6342.6	6364.4	6421.0	6449.4	6473.8	6459.6	6414.6	6369.6	6316.8	6320.7	6349.0
47.5°	6831.4	6853.3	6926.7	6974.3	6987.1	6984.5	6934.4	6872.6	6800.6	6798.0	6822.4
50°	7379.5	7401.4	7492.7	7566.1	7603.4	7599.5	7540.3	7452.8	7365.4	7366.6	7397.5
52.5°	7914.7	7941.7	8036.9	8163.0	8236.3	8289.1	8253.1	8170.7	8063.9	8066.5	8094.8
55°	8416.4	8461.5	8570.8	8741.9	8878.3	9026.3	9068.7	9066.1	9001.8	9019.8	9048.1
57.5°	8659.6	8726.5	8895.0	9165.2	9443.1	9744.1	9998.9	10189.3	10270.3	10392.6	10364.2
60°	8199.0	8305.8	8554.1	8951.6	9501.0	10128.8	10801.7	11459.1	12020.0	12443.3	12200.1
62.5°	6713.1	6852.0	7153.1	7662.5	8493.6	9498.4	10786.2	12340.4	14033.4	15054.9	14325.5
65°	4200.5	4344.6	4650.8	5196.3	6168.9	7418.1	9165.2	11740.8	14904.4	16444.4	14959.7
67.5°	1637.7	1716.2	1882.2	2230.8	2961.6	4073.1	5826.7	8749.7	12533.3	13882.9	12300.5
70°	820.8	828.5	859.4	923.7	1080.7	1403.6	2135.6	4056.4	7187.8	8681.5	6929.2
72.5°	593.1	594.4	609.8	638.1	688.3	760.3	899.3	1241.5	2337.6	3572.7	2191.0
75°	454.1	459.3	468.3	483.7	510.8	546.8	596.9	715.3	886.4	1027.9	864.5
77.5°	349.9	360.2	366.7	380.8	397.5	422.0	436.1	481.2	559.6	589.2	580.2
80°	266.3	275.3	289.5	301.0	312.6	324.2	319.1	339.6	380.8	405.3	392.4
82.5°	169.8	180.1	221.3	231.6	236.7	244.4	235.4	236.7	254.7	270.2	254.7
85°	109.4	115.8	140.2	153.1	154.4	159.5	155.7	146.7	146.7	133.8	150.5
87.5°	50.2	51.5	63.0	74.6	77.2	69.5	68.2	65.6	52.7	50.2	54.0
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: P193403

CATALOG NUMBER: GLEON-AF-05-LED-E1-5NQ-8030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2	3108.2
2.5°	3107.0	3109.5	3110.8	3114.7	3116.0	3116.0	3117.3	3119.8
5°	3131.4	3135.3	3136.5	3141.7	3143.0	3141.7	3144.3	3145.6
7.5°	3175.1	3181.6	3184.2	3189.3	3185.4	3190.6	3191.9	3191.9
10°	3239.5	3245.9	3247.2	3252.3	3249.8	3252.3	3252.3	3249.8
12.5°	3324.4	3325.7	3321.8	3325.7	3320.5	3323.1	3319.2	3316.7
15°	3418.3	3414.4	3405.4	3405.4	3397.7	3399.0	3397.7	3396.4
17.5°	3509.6	3501.9	3495.5	3492.9	3486.5	3485.2	3481.3	3481.3
20°	3610.0	3606.1	3602.3	3597.1	3590.7	3584.3	3583.0	3585.5
22.5°	3730.9	3729.6	3729.6	3727.1	3718.1	3711.6	3707.8	3707.8
25°	3893.0	3881.4	3881.4	3880.2	3876.3	3872.4	3864.7	3868.6
27.5°	4075.7	4069.3	4074.4	4073.1	4069.3	4069.3	4064.1	4064.1
30°	4300.9	4298.3	4306.0	4299.6	4286.7	4285.4	4280.3	4273.8
32.5°	4560.7	4558.2	4569.7	4562.0	4541.4	4529.9	4519.6	4514.4
35°	4850.2	4851.5	4865.6	4860.5	4837.3	4829.6	4811.6	4809.0
37.5°	5166.7	5187.3	5211.7	5216.9	5197.6	5192.4	5173.1	5162.8
40°	5538.5	5565.5	5602.8	5611.8	5591.2	5587.4	5560.4	5546.2
42.5°	5934.7	5981.1	6027.4	6035.1	6014.5	5993.9	5968.2	5957.9
45°	6377.3	6432.6	6493.1	6508.5	6477.7	6453.2	6419.8	6419.8
47.5°	6873.9	6943.4	7011.6	7054.0	7025.7	7000.0	6960.1	6934.4
50°	7460.6	7555.8	7644.5	7688.3	7643.2	7594.4	7524.9	7501.7
52.5°	8196.5	8299.4	8376.6	8353.4	8283.9	8215.8	8139.8	8109.0
55°	9135.6	9170.4	9170.4	9082.9	8943.9	8829.4	8709.8	8669.9
57.5°	10310.2	10176.4	9970.6	9709.4	9381.3	9095.7	8902.8	8811.4
60°	11690.7	11047.4	10320.5	9606.5	9019.8	8536.1	8249.2	8118.0
62.5°	12610.5	10927.7	9471.4	8325.1	7481.1	6898.3	6502.1	6347.7
65°	11785.9	9113.7	7163.4	5791.9	4872.1	4279.0	3886.6	3742.5
67.5°	8632.6	5710.9	3814.5	2733.9	2003.1	1597.9	1437.0	1370.1
70°	3875.0	2010.8	1232.5	962.3	829.8	761.6	732.0	721.7
72.5°	1168.2	845.2	712.7	643.3	590.5	557.1	532.6	530.0
75°	705.0	586.7	521.0	479.9	446.4	419.4	406.5	402.7
77.5°	492.7	431.0	400.1	370.5	344.8	324.2	312.6	303.6
80°	346.1	316.5	302.3	285.6	268.9	249.6	232.9	225.1
82.5°	231.6	225.1	225.1	214.8	200.7	182.7	149.2	141.5
85°	149.2	148.0	150.5	146.7	136.4	117.1	96.5	91.3
87.5°	69.5	70.8	78.5	77.2	74.6	61.8	48.9	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)