

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: P269447

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269447
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-07-LED-E1-5NQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30484.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 295
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

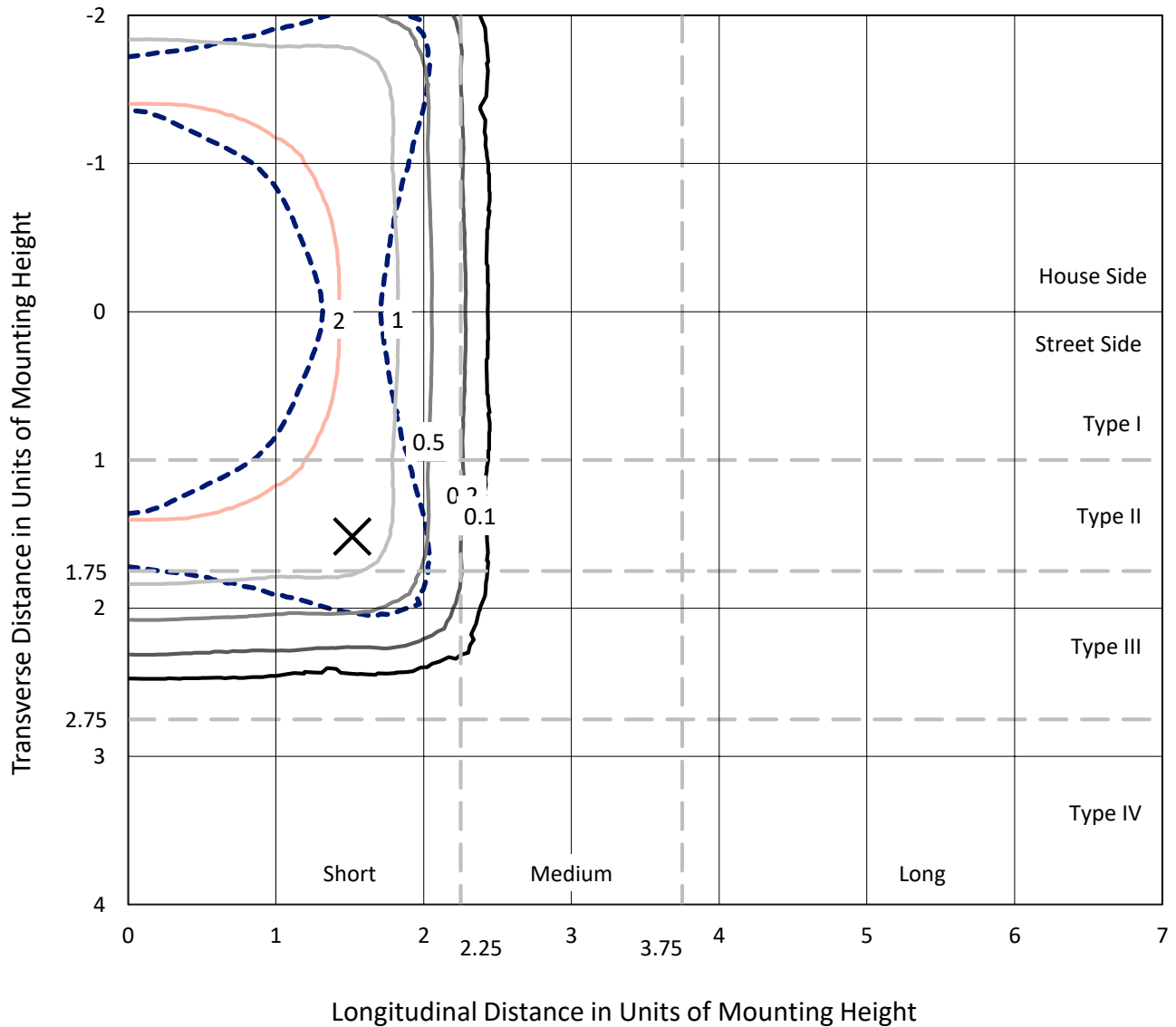


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

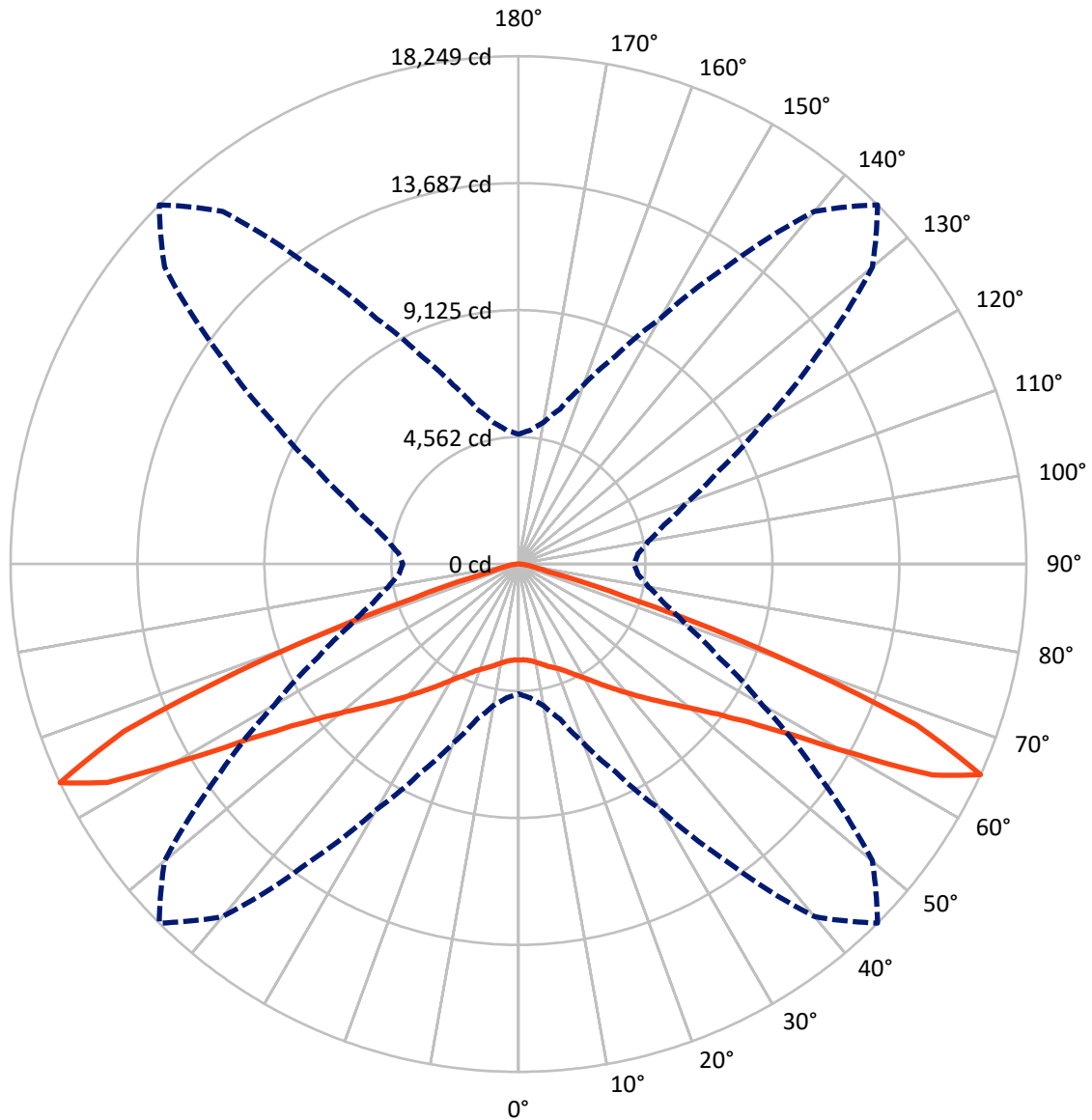


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15242.4	0.0	15242.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15242.4	0.0	15242.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	30484.8	0.0	30484.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.1
10°-20°	1078.3	3.5
20°-30°	2016.2	6.6
30°-40°	3409.9	11.2
40°-50°	5575.5	18.3
50°-60°	8865.9	29.1
60°-70°	8014.2	26.3
70°-80°	1014.2	3.3
80°-90°	174.5	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°	30484.8	100.0
0°-180°	30484.8	100.0



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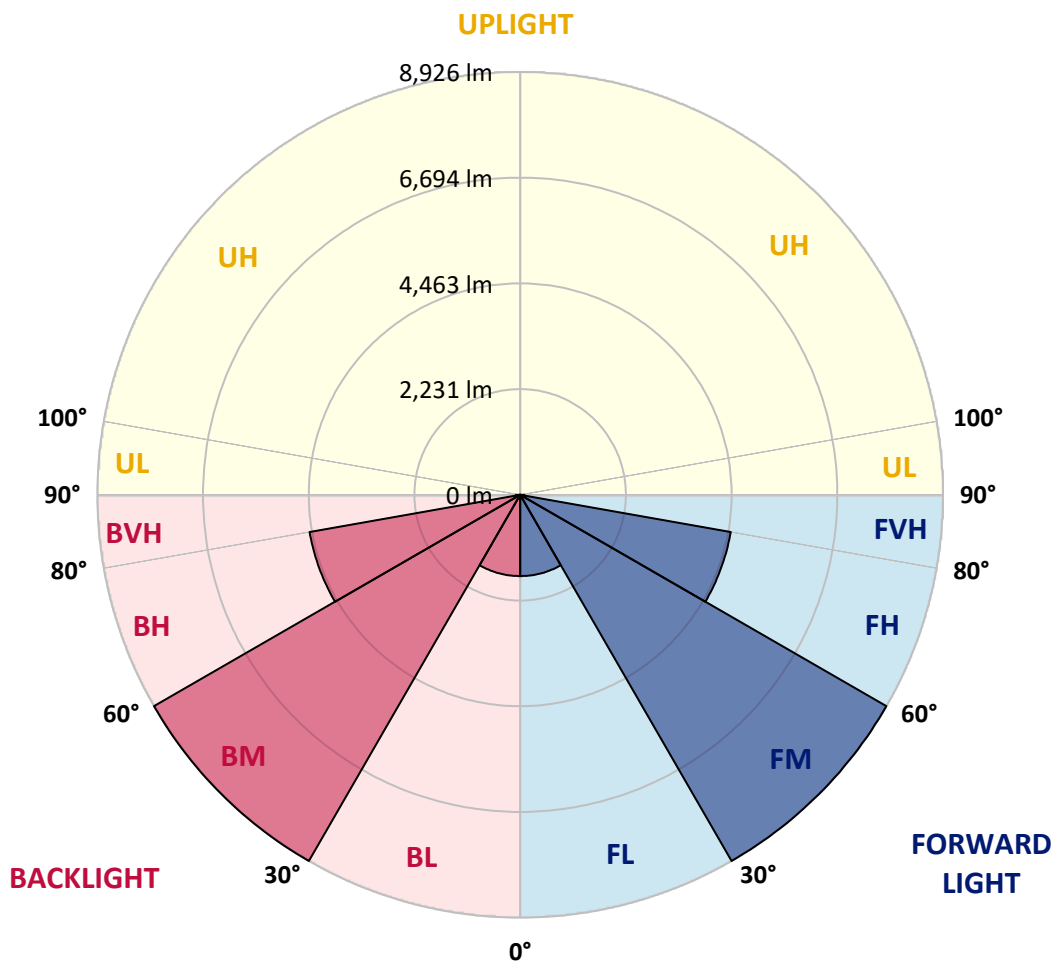
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1715.3	5.6			
FM (30°-60°)	8925.6	29.3			
FH (60°-80°)	4514.2	14.8			G2/5000
FVH (80°-90°)	87.2	0.3			G1/100
BL (0°-30°)	1715.3	5.6	B3/2500		
BM (30°-60°)	8925.6	29.3	B5		
BH (60°-80°)	4514.2	14.8	B4/5000		G2/5000
BVH (80°-90°)	87.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4
2.5°	3452.2	3455.2	3457.9	3455.2	3457.9	3453.7	3450.7	3455.2	3450.7	3446.4	3449.4
5°	3482.2	3483.6	3483.6	3479.3	3483.6	3480.8	3476.5	3482.2	3477.9	3473.7	3476.5
7.5°	3532.1	3537.9	3533.7	3529.4	3532.1	3529.4	3526.4	3528.0	3526.4	3522.2	3523.6
10°	3599.2	3603.6	3600.6	3599.2	3602.2	3600.6	3597.8	3596.5	3597.8	3593.6	3593.6
12.5°	3680.6	3679.3	3677.8	3679.3	3683.5	3683.5	3682.2	3683.5	3686.4	3687.8	3684.9
15°	3760.7	3763.4	3763.4	3763.4	3772.1	3779.2	3783.4	3786.4	3792.0	3793.5	3787.8
17.5°	3860.6	3860.6	3859.1	3860.6	3869.1	3880.6	3884.8	3890.5	3896.3	3900.5	3893.4
20°	3971.9	3974.8	3974.8	3977.6	3989.1	4001.9	4001.9	4004.7	4001.9	4004.7	4000.5
22.5°	4107.6	4116.2	4116.2	4117.6	4129.0	4144.7	4140.4	4144.7	4137.6	4143.3	4137.6
25°	4284.6	4297.4	4294.5	4294.5	4303.2	4313.1	4314.6	4323.2	4321.7	4328.8	4324.6
27.5°	4484.5	4504.5	4510.2	4508.8	4514.4	4524.5	4527.3	4537.2	4531.6	4537.2	4534.5
30°	4724.4	4732.9	4744.3	4748.6	4755.7	4765.8	4765.8	4767.1	4759.9	4768.7	4772.9
32.5°	4972.7	4988.5	4999.8	5025.6	5038.5	5045.6	5044.2	5046.9	5039.9	5051.3	5059.9
35°	5301.1	5312.5	5331.1	5351.2	5368.2	5366.8	5362.5	5364.0	5364.0	5373.9	5382.6
37.5°	5696.6	5699.4	5723.7	5752.2	5760.8	5752.2	5726.5	5720.9	5708.0	5720.9	5735.1
40°	6114.9	6125.0	6173.4	6192.0	6196.2	6180.6	6143.5	6122.0	6093.6	6109.3	6129.2
42.5°	6553.2	6573.2	6617.5	6650.3	6664.5	6654.6	6603.3	6570.4	6533.3	6541.7	6561.8
45°	7038.7	7063.0	7125.7	7157.2	7184.3	7168.6	7118.6	7068.7	7010.2	7014.3	7045.8
47.5°	7581.2	7605.5	7686.8	7739.6	7754.0	7751.0	7695.4	7626.9	7546.9	7544.1	7571.3
50°	8189.4	8213.7	8315.0	8396.4	8437.8	8433.6	8367.9	8270.8	8173.7	8175.1	8209.4
52.5°	8783.4	8813.4	8919.0	9058.9	9140.3	9198.9	9158.8	9067.4	8948.9	8951.8	8983.2
55°	9340.1	9390.2	9511.4	9701.3	9852.7	10016.9	10064.0	10061.1	9989.7	10009.8	10041.2
57.5°	9610.0	9684.3	9871.3	10171.1	10479.4	10813.5	11096.3	11307.5	11397.4	11533.1	11501.7
60°	9098.8	9217.4	9492.8	9934.0	10543.8	11240.4	11987.2	12716.6	13339.2	13808.9	13539.1
62.5°	7449.9	7604.1	7938.1	8503.4	9425.8	10540.8	11970.0	13694.8	15573.6	16707.1	15897.7
65°	4661.6	4821.5	5161.2	5766.6	6846.0	8232.2	10171.1	13029.3	16540.1	18249.1	16601.5
67.5°	1817.5	1904.5	2088.7	2475.6	3286.5	4520.1	6466.1	9709.9	13908.8	15406.6	13650.5
70°	910.9	919.4	953.7	1025.1	1199.2	1557.7	2370.0	4501.5	7976.7	9634.2	7689.8
72.5°	658.2	659.6	676.8	708.1	763.7	843.8	997.9	1377.7	2594.1	3964.8	2431.4
75°	503.9	509.7	519.7	536.8	566.8	606.7	662.5	793.8	983.7	1140.8	959.4
77.5°	388.3	399.7	406.9	422.7	441.2	468.2	483.9	534.0	621.1	653.8	643.9
80°	295.5	305.6	321.2	334.1	346.9	359.9	354.1	376.8	422.7	449.7	435.5
82.5°	188.5	200.0	245.5	256.9	262.8	271.3	261.2	262.8	282.6	299.9	282.6
85°	121.4	128.5	155.6	169.9	171.3	177.1	172.7	162.8	162.8	148.5	167.1
87.5°	55.7	57.1	70.0	82.9	85.7	77.2	75.6	72.9	58.5	55.7	59.9
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°	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4	3449.4
2.5°	3448.0	3450.7	3452.2	3456.5	3457.9	3457.9	3459.4	3462.2
5°	3475.1	3479.3	3480.8	3486.5	3487.8	3486.5	3489.3	3490.8
7.5°	3523.6	3530.8	3533.7	3539.3	3535.0	3540.8	3542.1	3542.1
10°	3594.9	3602.2	3603.6	3609.3	3606.4	3609.3	3609.3	3606.4
12.5°	3689.2	3690.6	3686.4	3690.6	3684.9	3687.8	3683.5	3680.6
15°	3793.5	3789.2	3779.2	3779.2	3770.6	3772.1	3770.6	3769.2
17.5°	3894.8	3886.2	3879.2	3876.2	3869.1	3867.7	3863.4	3863.4
20°	4006.3	4001.9	3997.5	3991.9	3984.8	3977.6	3976.2	3979.0
22.5°	4140.4	4139.0	4139.0	4136.1	4126.2	4119.0	4114.6	4114.6
25°	4320.3	4307.5	4307.5	4306.0	4301.8	4297.4	4288.9	4293.2
27.5°	4523.1	4515.9	4521.6	4520.1	4515.9	4515.9	4510.2	4510.2
30°	4772.9	4770.0	4778.5	4771.4	4757.2	4755.7	4750.0	4743.0
32.5°	5061.3	5058.4	5071.2	5062.7	5039.9	5027.1	5015.5	5009.8
35°	5382.6	5383.9	5399.6	5394.0	5368.2	5359.6	5339.6	5336.8
37.5°	5733.7	5756.6	5783.6	5789.3	5767.9	5762.3	5740.9	5729.4
40°	6146.4	6176.3	6217.7	6227.7	6204.9	6200.6	6170.5	6154.8
42.5°	6586.1	6637.4	6688.9	6697.5	6674.5	6651.8	6623.3	6611.7
45°	7077.1	7138.7	7205.8	7222.8	7188.5	7161.5	7124.3	7124.3
47.5°	7628.2	7705.4	7781.1	7828.2	7796.7	7768.3	7723.9	7695.4
50°	8279.4	8385.0	8483.6	8532.0	8482.1	8427.9	8350.7	8325.0
52.5°	9096.0	9210.2	9295.9	9270.1	9193.1	9117.4	9033.1	8999.0
55°	10138.2	10176.8	10176.8	10079.7	9925.6	9798.4	9665.7	9621.3
57.5°	11441.7	11293.3	11064.9	10775.0	10410.9	10094.0	9879.7	9778.5
60°	12973.7	12259.9	11453.2	10660.7	10009.8	9472.9	9154.5	9008.9
62.5°	13994.5	12127.1	10510.9	9238.8	8302.1	7655.4	7215.6	7044.4
65°	13079.3	10113.9	7949.6	6427.6	5406.8	4748.6	4313.1	4153.3
67.5°	9580.1	6337.6	4233.3	3033.8	2222.9	1773.3	1594.9	1520.6
70°	4300.2	2231.5	1367.8	1067.9	920.9	845.2	812.3	801.0
72.5°	1296.3	938.0	791.0	713.9	655.4	618.3	591.1	588.2
75°	782.5	651.0	578.1	532.5	495.4	465.4	451.2	446.8
77.5°	546.8	478.3	444.0	411.2	382.6	359.9	346.9	337.0
80°	384.0	351.1	335.4	316.9	298.3	276.9	258.4	249.9
82.5°	256.9	249.9	249.9	238.4	222.7	202.7	165.6	157.1
85°	165.6	164.2	167.1	162.8	151.4	130.0	107.1	101.4
87.5°	77.2	78.5	87.0	85.7	82.9	68.5	54.3	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)