

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: P191644

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191644
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-06-LED-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 29670 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

Input Watts (W): 249
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

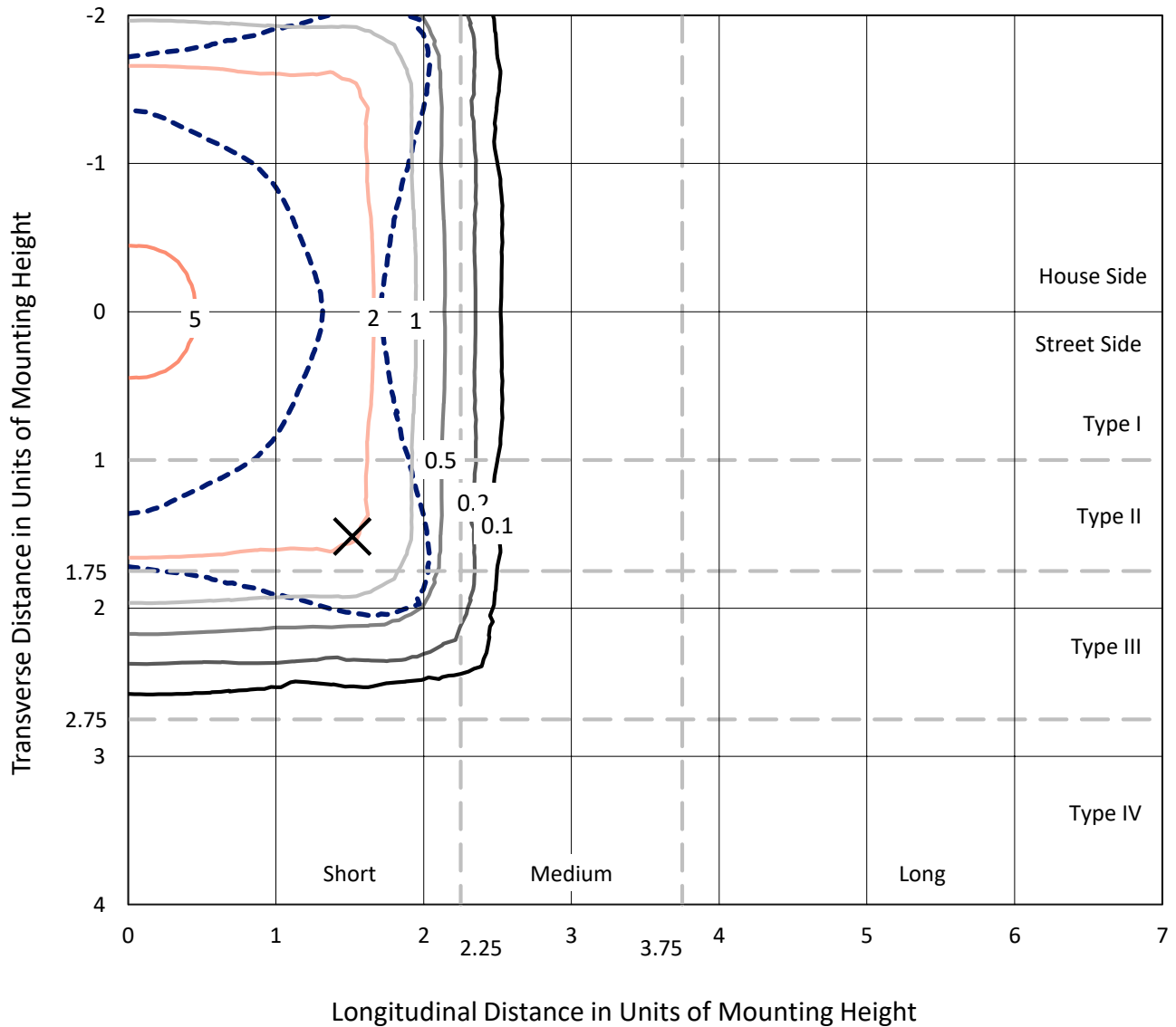


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

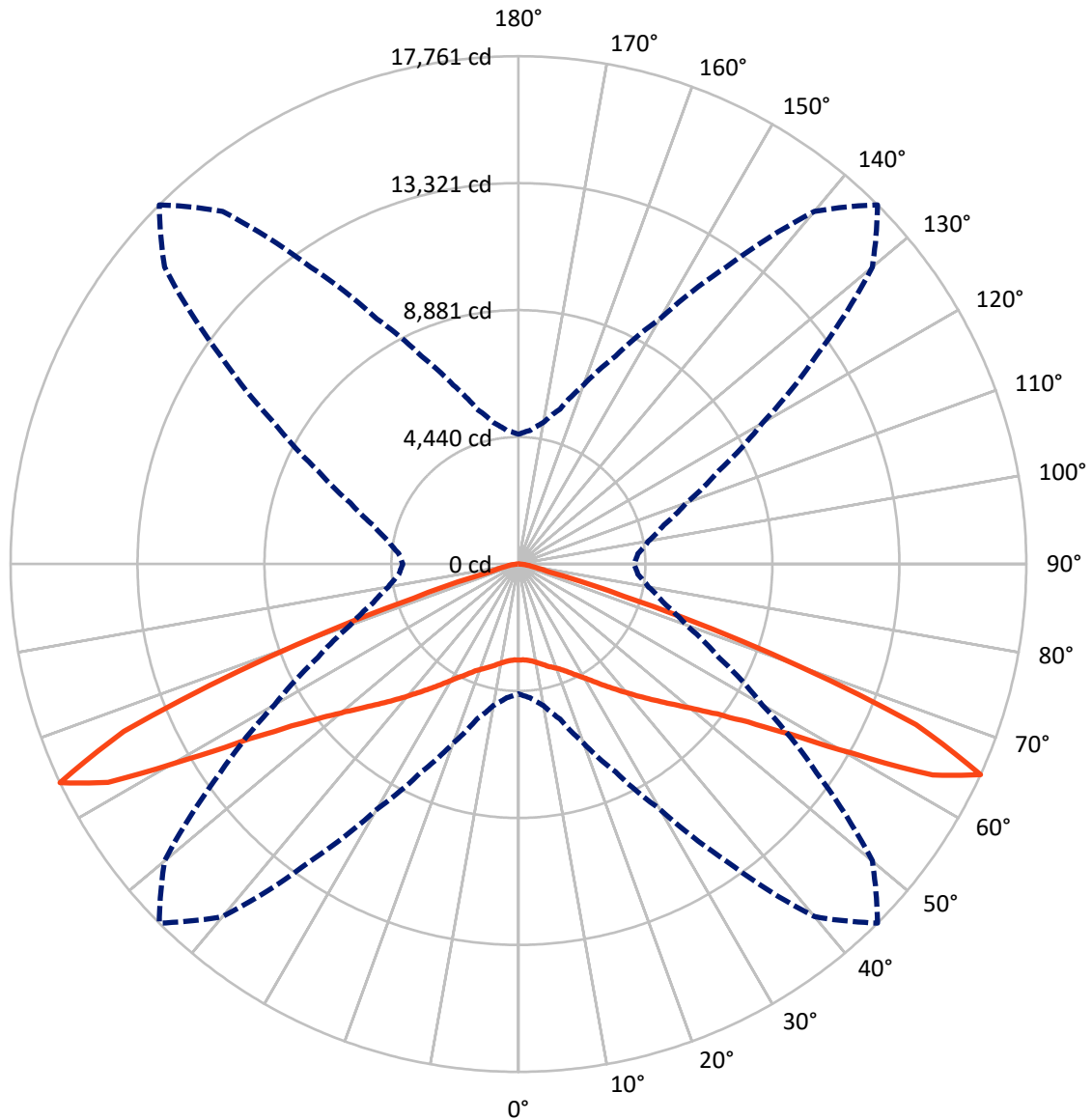


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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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	14835.0	0.0	14835.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14835.0	0.0	14835.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29670.0	0.0	29670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	1.1
10°-20°	1049.4	3.5
20°-30°	1962.3	6.6
30°-40°	3318.7	11.2
40°-50°	5426.5	18.3
50°-60°	8628.9	29.1
60°-70°	7800.0	26.3
70°-80°	987.1	3.3
80°-90°	169.8	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°	29670.0	100.0
0°-180°	29670.0	100.0



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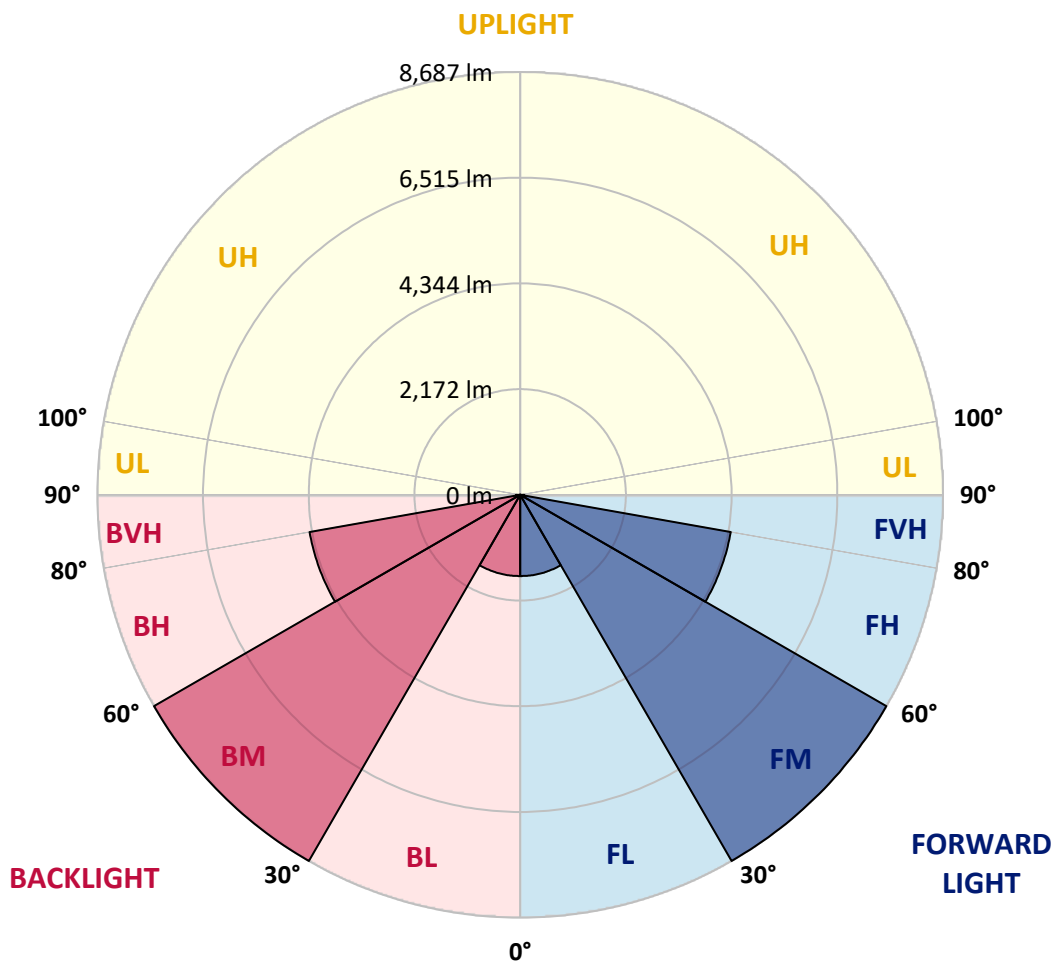
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.5	5.6			
FM	(30°-60°)	8687.1	29.3			
FH	(60°-80°)	4393.6	14.8			G2/5000
FVH	(80°-90°)	84.9	0.3			G1/100
BL	(0°-30°)	1669.5	5.6	B3/2500		
BM	(30°-60°)	8687.1	29.3	B5		
BH	(60°-80°)	4393.6	14.8	B4/5000		G2/5000
BVH	(80°-90°)	84.9	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°	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2
2.5°	3360.0	3362.7	3365.5	3362.7	3365.5	3361.3	3358.6	3362.7	3358.6	3354.4	3357.2
5°	3389.1	3390.5	3390.5	3386.4	3390.5	3387.7	3383.6	3389.1	3385.0	3380.8	3383.6
7.5°	3437.8	3443.3	3439.2	3435.0	3437.8	3435.0	3432.2	3433.6	3432.2	3428.0	3429.4
10°	3503.1	3507.2	3504.5	3503.1	3505.9	3504.5	3501.7	3500.3	3501.7	3497.5	3497.5
12.5°	3582.3	3580.9	3579.5	3580.9	3585.1	3585.1	3583.7	3585.1	3587.8	3589.2	3586.5
15°	3660.1	3662.9	3662.9	3662.9	3671.2	3678.2	3682.3	3685.1	3690.7	3692.1	3686.5
17.5°	3757.4	3757.4	3756.0	3757.4	3765.7	3776.8	3781.0	3786.6	3792.1	3796.3	3789.3
20°	3865.8	3868.5	3868.5	3871.3	3882.4	3894.9	3894.9	3897.7	3894.9	3897.7	3893.5
22.5°	3997.8	4006.1	4006.1	4007.5	4018.6	4033.9	4029.7	4033.9	4026.9	4032.5	4026.9
25°	4170.1	4182.6	4179.8	4179.8	4188.1	4197.9	4199.2	4207.6	4206.2	4213.1	4209.0
27.5°	4364.6	4384.1	4389.6	4388.2	4393.8	4403.5	4406.3	4416.0	4410.5	4416.0	4413.2
30°	4598.1	4606.4	4617.5	4621.7	4628.6	4638.4	4638.4	4639.7	4632.8	4641.1	4645.3
32.5°	4839.8	4855.1	4866.2	4891.3	4903.8	4910.7	4909.3	4912.1	4905.1	4916.3	4924.6
35°	5159.4	5170.6	5188.6	5208.1	5224.7	5223.4	5219.2	5220.6	5220.6	5230.3	5238.6
37.5°	5544.3	5547.1	5570.7	5598.5	5606.9	5598.5	5573.5	5568.0	5555.5	5568.0	5581.9
40°	5951.5	5961.2	6008.5	6026.5	6030.7	6015.4	5979.3	5958.4	5930.6	5945.9	5965.4
42.5°	6378.1	6397.5	6440.6	6472.6	6486.5	6476.7	6426.7	6394.8	6358.6	6367.0	6386.4
45°	6850.5	6874.2	6935.3	6965.9	6992.3	6977.0	6928.3	6879.7	6822.7	6826.9	6857.5
47.5°	7378.6	7402.2	7481.4	7532.8	7546.7	7543.9	7489.7	7423.0	7345.2	7342.4	7368.8
50°	7970.5	7994.1	8092.8	8172.0	8212.3	8208.1	8144.2	8049.7	7955.2	7956.6	7990.0
52.5°	8548.6	8577.8	8680.6	8816.8	8896.0	8952.9	8914.0	8825.1	8709.8	8712.5	8743.1
55°	9090.5	9139.1	9257.2	9442.1	9589.4	9749.2	9795.0	9792.2	9722.7	9742.2	9772.8
57.5°	9353.1	9425.4	9607.4	9899.2	10199.4	10524.5	10799.7	11005.3	11092.9	11224.9	11194.3
60°	8855.7	8971.0	9239.2	9668.6	10261.9	10940.0	11666.7	12376.8	12982.7	13439.8	13177.2
62.5°	7250.7	7400.8	7726.0	8276.2	9173.9	10259.1	11650.1	13328.7	15157.3	16260.6	15472.7
65°	4536.9	4692.5	5023.3	5612.4	6662.9	8012.2	9899.2	12681.1	16098.0	17761.4	16157.8
67.5°	1768.9	1853.7	2032.9	2409.5	3198.8	4399.3	6293.3	9450.4	13537.1	14994.7	13285.6
70°	886.5	894.9	928.2	997.7	1167.2	1516.0	2306.7	4381.3	7763.5	9376.7	7484.2
72.5°	640.6	642.0	658.7	689.2	743.4	821.2	971.3	1340.9	2524.8	3858.8	2366.4
75°	490.5	496.1	505.8	522.5	551.7	590.6	644.8	772.6	957.4	1110.3	933.8
77.5°	378.0	389.1	396.0	411.3	429.4	455.8	471.1	519.7	604.5	636.4	626.7
80°	287.6	297.4	312.7	325.2	337.7	350.2	344.6	366.8	411.3	437.7	423.8
82.5°	183.4	194.5	239.0	250.1	255.7	264.0	254.3	255.7	275.1	291.8	275.1
85°	118.1	125.1	151.5	165.4	166.7	172.3	168.1	158.4	158.4	144.5	162.6
87.5°	54.2	55.6	68.1	80.6	83.4	75.0	73.6	70.9	57.0	54.2	58.4
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°	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2	3357.2
2.5°	3355.8	3358.6	3360.0	3364.1	3365.5	3365.5	3366.9	3369.7
5°	3382.2	3386.4	3387.7	3393.3	3394.7	3393.3	3396.1	3397.5
7.5°	3429.4	3436.4	3439.2	3444.7	3440.5	3446.1	3447.5	3447.5
10°	3498.9	3505.9	3507.2	3512.8	3510.0	3512.8	3512.8	3510.0
12.5°	3590.6	3592.0	3587.8	3592.0	3586.5	3589.2	3585.1	3582.3
15°	3692.1	3687.9	3678.2	3678.2	3669.8	3671.2	3669.8	3668.4
17.5°	3790.7	3782.4	3775.4	3772.7	3765.7	3764.3	3760.1	3760.1
20°	3899.1	3894.9	3890.8	3885.2	3878.3	3871.3	3869.9	3872.7
22.5°	4029.7	4028.3	4028.3	4025.6	4015.8	4008.9	4004.7	4004.7
25°	4204.8	4192.3	4192.3	4190.9	4186.7	4182.6	4174.2	4178.4
27.5°	4402.1	4395.2	4400.7	4399.3	4395.2	4395.2	4389.6	4389.6
30°	4645.3	4642.5	4650.9	4643.9	4630.0	4628.6	4623.1	4616.1
32.5°	4926.0	4923.2	4935.7	4927.4	4905.1	4892.6	4881.5	4876.0
35°	5238.6	5240.0	5255.3	5249.8	5224.7	5216.4	5197.0	5194.2
37.5°	5580.5	5602.7	5629.1	5634.7	5613.8	5608.3	5587.4	5576.3
40°	5982.1	6011.2	6051.5	6061.3	6039.0	6034.9	6005.7	5990.4
42.5°	6410.0	6460.1	6510.1	6518.4	6496.2	6474.0	6446.2	6435.1
45°	6888.0	6947.8	7013.1	7029.8	6996.4	6970.0	6933.9	6933.9
47.5°	7424.4	7499.5	7573.1	7619.0	7588.4	7560.6	7517.5	7489.7
50°	8058.1	8160.9	8256.8	8304.0	8255.4	8202.6	8127.5	8102.5
52.5°	8852.9	8964.1	9047.4	9022.4	8947.4	8873.7	8791.7	8758.4
55°	9867.3	9904.8	9904.8	9810.3	9660.2	9536.5	9407.3	9364.2
57.5°	11135.9	10991.4	10769.1	10487.0	10132.7	9824.2	9615.8	9517.1
60°	12626.9	11932.1	11147.0	10375.8	9742.2	9219.7	8909.9	8768.1
62.5°	13620.5	11802.9	10229.9	8991.8	8080.3	7450.8	7022.8	6856.1
65°	12729.8	9843.6	7737.1	6255.8	5262.3	4621.7	4197.9	4042.2
67.5°	9323.9	6168.3	4120.0	2952.8	2163.5	1725.8	1552.1	1479.9
70°	4185.4	2171.9	1331.2	1039.4	896.3	822.6	790.7	779.5
72.5°	1261.7	912.9	769.8	694.8	637.8	601.7	575.3	572.5
75°	761.5	633.6	562.8	518.3	482.2	453.0	439.1	434.9
77.5°	532.2	465.5	432.2	400.2	372.4	350.2	337.7	327.9
80°	373.8	341.8	326.5	308.5	290.4	269.6	251.5	243.2
82.5°	250.1	243.2	243.2	232.1	216.8	197.3	161.2	152.9
85°	161.2	159.8	162.6	158.4	147.3	126.4	104.2	98.7
87.5°	75.0	76.4	84.8	83.4	80.6	66.7	52.8	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)