

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: P194203

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194203
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-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 33664 lumens
Efficiency: N/A
Efficacy: 105.2 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): 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

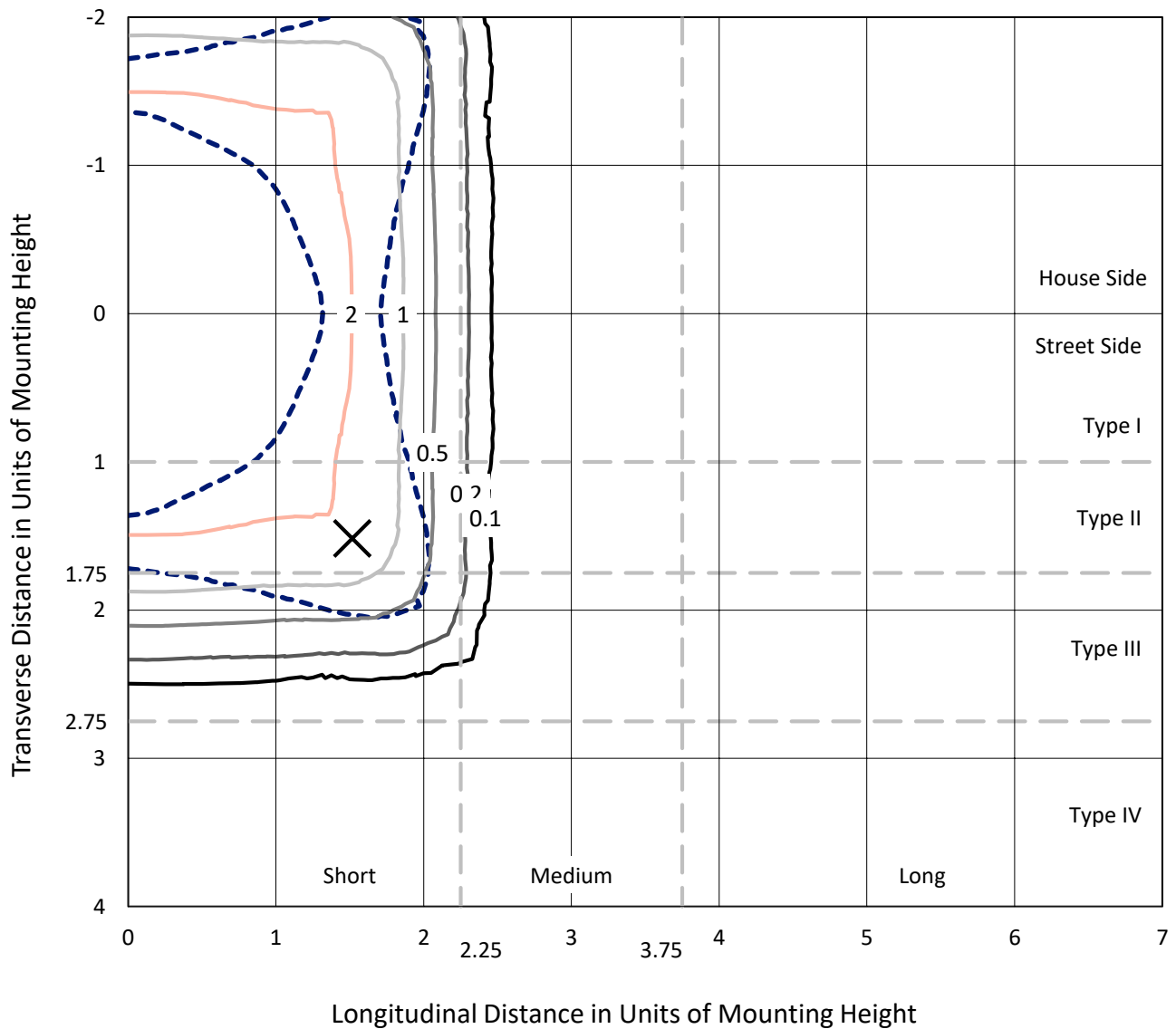


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

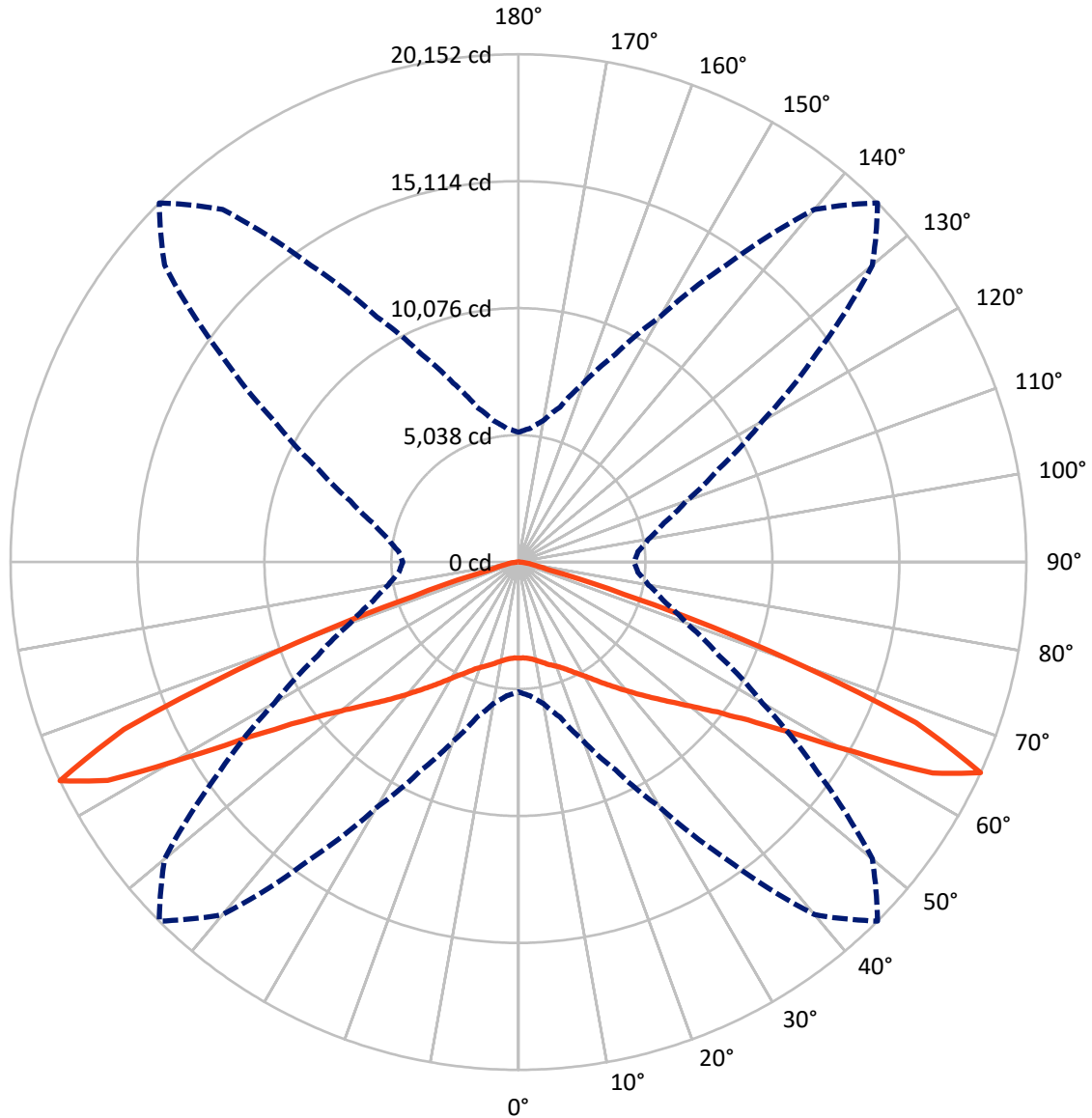


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

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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	16832.0	0.0	16832.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16832.0	0.0	16832.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33664.0	0.0	33664.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	1.1
10°-20°	1190.7	3.5
20°-30°	2226.4	6.6
30°-40°	3765.5	11.2
40°-50°	6157.0	18.3
50°-60°	9790.5	29.1
60°-70°	8850.0	26.3
70°-80°	1120.0	3.3
80°-90°	192.7	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°	33664.0	100.0
0°-180°	33664.0	100.0



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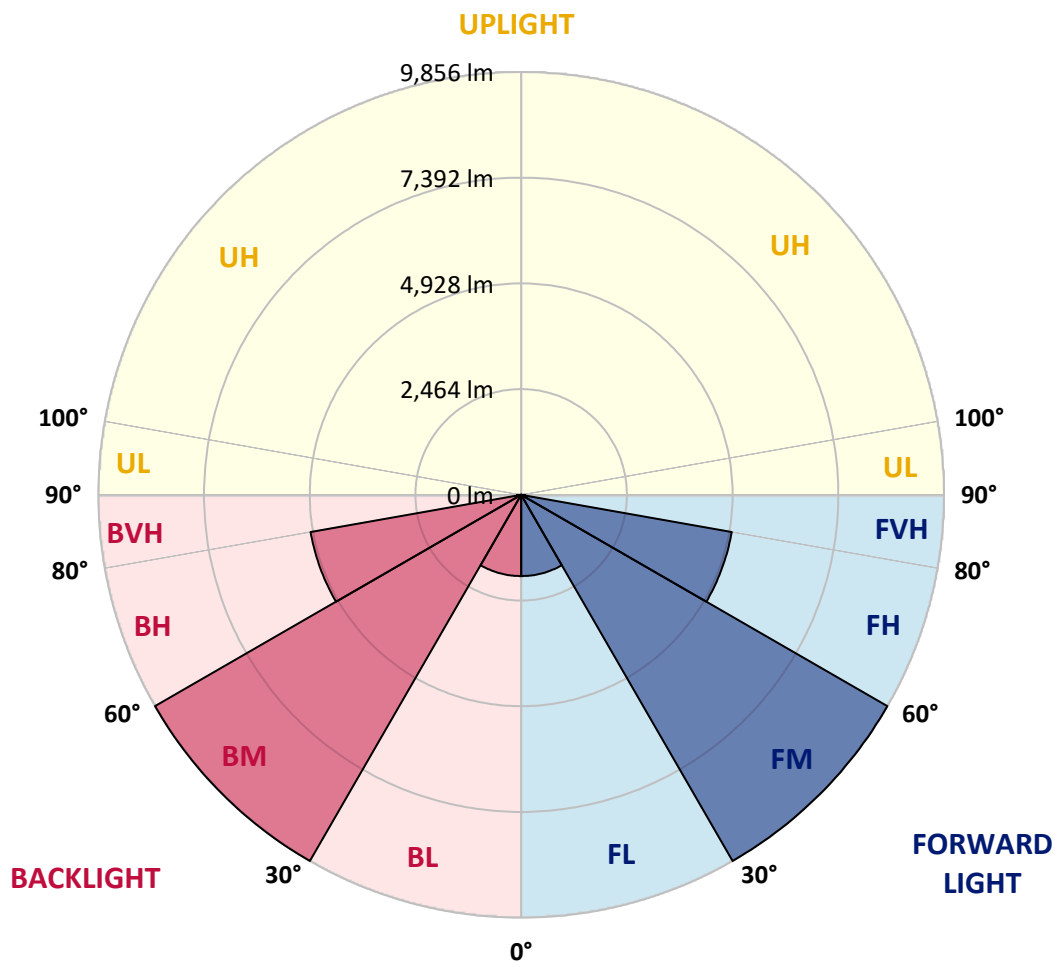
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.2	5.6			
FM	(30°-60°)	9856.5	29.3			
FH	(60°-80°)	4985.0	14.8			G2/5000
FVH	(80°-90°)	96.3	0.3			G1/100
BL	(0°-30°)	1894.2	5.6	B3/2500		
BM	(30°-60°)	9856.5	29.3	B5		
BH	(60°-80°)	4985.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	96.3	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°	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1
2.5°	3812.3	3815.4	3818.6	3815.4	3818.6	3813.8	3810.7	3815.4	3810.7	3805.9	3809.1
5°	3845.4	3846.9	3846.9	3842.2	3846.9	3843.8	3839.1	3845.4	3840.6	3835.9	3839.1
7.5°	3900.5	3906.8	3902.1	3897.4	3900.5	3897.4	3894.2	3895.8	3894.2	3889.5	3891.1
10°	3974.6	3979.4	3976.2	3974.6	3977.8	3976.2	3973.1	3971.5	3973.1	3968.3	3968.3
12.5°	4064.5	4062.9	4061.4	4062.9	4067.7	4067.7	4066.1	4067.7	4070.8	4072.4	4069.2
15°	4152.8	4156.0	4156.0	4156.0	4165.4	4173.3	4178.0	4181.2	4187.5	4189.1	4182.8
17.5°	4263.2	4263.2	4261.6	4263.2	4272.6	4285.2	4290.0	4296.3	4302.6	4307.3	4299.4
20°	4386.1	4389.3	4389.3	4392.4	4405.1	4419.2	4419.2	4422.4	4419.2	4422.4	4417.7
22.5°	4535.9	4545.4	4545.4	4547.0	4559.6	4576.9	4572.2	4576.9	4569.0	4575.3	4569.0
25°	4731.4	4745.6	4742.5	4742.5	4751.9	4763.0	4764.5	4774.0	4772.4	4780.3	4775.6
27.5°	4952.1	4974.2	4980.5	4978.9	4985.3	4996.3	4999.4	5010.5	5004.2	5010.5	5007.3
30°	5217.0	5226.5	5239.1	5243.8	5251.7	5262.7	5262.7	5264.3	5256.4	5265.9	5270.6
32.5°	5491.3	5508.7	5521.3	5549.7	5563.9	5571.8	5570.2	5573.3	5565.4	5578.1	5587.5
35°	5854.0	5866.6	5887.1	5909.1	5928.1	5926.5	5921.8	5923.3	5923.3	5934.4	5943.8
37.5°	6290.7	6293.8	6320.6	6352.2	6361.6	6352.2	6323.8	6317.5	6303.3	6317.5	6333.3
40°	6752.6	6763.7	6817.3	6837.8	6842.5	6825.2	6784.2	6760.5	6729.0	6746.3	6768.4
42.5°	7236.7	7258.7	7307.6	7343.9	7359.6	7348.6	7291.8	7255.6	7214.6	7224.0	7246.1
45°	7772.7	7799.5	7868.9	7903.6	7933.5	7916.2	7861.0	7805.8	7741.2	7745.9	7780.6
47.5°	8371.8	8398.6	8488.5	8546.8	8562.6	8559.4	8497.9	8422.3	8334.0	8330.8	8360.8
50°	9043.5	9070.3	9182.2	9272.1	9317.8	9313.1	9240.5	9133.3	9026.1	9027.7	9065.5
52.5°	9699.3	9732.4	9849.1	10003.6	10093.5	10158.1	10114.0	10013.1	9882.2	9885.4	9920.1
55°	10314.2	10369.4	10503.4	10713.1	10880.2	11061.5	11113.6	11110.4	11031.6	11053.6	11088.3
57.5°	10612.2	10694.2	10900.7	11231.8	11572.3	11941.3	12253.4	12486.8	12586.1	12735.9	12701.2
60°	10047.8	10178.6	10482.9	10970.1	11643.3	12412.7	13237.3	14042.9	14730.3	15249.0	14951.0
62.5°	8226.8	8397.0	8766.0	9390.3	10408.8	11640.1	13218.3	15122.9	17197.7	18449.5	17555.6
65°	5147.6	5324.2	5699.5	6367.9	7559.9	9090.8	11231.8	14388.2	18265.1	20152.3	18332.9
67.5°	2007.0	2103.2	2306.6	2733.8	3629.4	4991.6	7140.5	10722.6	15359.4	17013.2	15074.0
70°	1005.9	1015.3	1053.2	1132.0	1324.4	1720.1	2617.2	4971.1	8808.5	10639.0	8491.6
72.5°	726.8	728.4	747.3	782.0	843.5	931.8	1102.1	1521.4	2864.7	4378.3	2685.0
75°	556.5	562.9	573.9	592.8	625.9	670.1	731.5	876.6	1086.3	1259.7	1059.5
77.5°	428.8	441.5	449.3	466.7	487.2	517.1	534.5	589.7	685.8	722.1	711.1
80°	326.4	337.4	354.7	368.9	383.1	397.3	391.0	416.2	466.7	496.6	480.9
82.5°	208.1	220.7	271.2	283.8	290.1	299.6	288.5	290.1	312.2	331.1	312.2
85°	134.0	141.9	171.9	187.6	189.2	195.5	190.8	179.7	179.7	164.0	184.5
87.5°	61.5	63.1	77.3	91.4	94.6	85.1	83.6	80.4	64.6	61.5	66.2
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°	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1	3809.1
2.5°	3807.5	3810.7	3812.3	3817.0	3818.6	3818.6	3820.1	3823.3
5°	3837.5	3842.2	3843.8	3850.1	3851.7	3850.1	3853.2	3854.8
7.5°	3891.1	3899.0	3902.1	3908.4	3903.7	3910.0	3911.6	3911.6
10°	3969.9	3977.8	3979.4	3985.7	3982.5	3985.7	3985.7	3982.5
12.5°	4074.0	4075.5	4070.8	4075.5	4069.2	4072.4	4067.7	4064.5
15°	4189.1	4184.3	4173.3	4173.3	4163.8	4165.4	4163.8	4162.3
17.5°	4301.0	4291.5	4283.7	4280.5	4272.6	4271.0	4266.3	4266.3
20°	4424.0	4419.2	4414.5	4408.2	4400.3	4392.4	4390.9	4394.0
22.5°	4572.2	4570.6	4570.6	4567.5	4556.4	4548.5	4543.8	4543.8
25°	4770.8	4756.6	4756.6	4755.1	4750.3	4745.6	4736.1	4740.9
27.5°	4994.7	4986.8	4993.1	4991.6	4986.8	4986.8	4980.5	4980.5
30°	5270.6	5267.5	5276.9	5269.0	5253.3	5251.7	5245.4	5237.5
32.5°	5589.1	5585.9	5600.1	5590.7	5565.4	5551.3	5538.6	5532.3
35°	5943.8	5945.4	5962.8	5956.4	5928.1	5918.6	5896.5	5893.4
37.5°	6331.7	6356.9	6386.9	6393.2	6369.5	6363.2	6339.6	6327.0
40°	6787.3	6820.4	6866.2	6877.2	6852.0	6847.2	6814.1	6796.8
42.5°	7272.9	7329.7	7386.4	7395.9	7370.7	7345.4	7313.9	7301.3
45°	7815.3	7883.1	7957.2	7976.1	7938.3	7908.3	7867.3	7867.3
47.5°	8423.8	8509.0	8592.5	8644.6	8609.9	8578.4	8529.5	8497.9
50°	9142.8	9259.5	9368.2	9421.8	9366.7	9306.8	9221.6	9193.2
52.5°	10044.6	10170.7	10265.3	10237.0	10151.8	10068.3	9975.2	9937.4
55°	11195.5	11238.1	11238.1	11130.9	10960.6	10820.3	10673.7	10624.8
57.5°	12635.0	12471.0	12218.8	11898.7	11496.7	11146.7	10910.2	10798.2
60°	14326.7	13538.4	12647.6	11772.6	11053.6	10460.8	10109.2	9948.4
62.5°	15454.0	13391.8	11607.0	10202.3	9168.0	8453.8	7968.2	7779.0
65°	14443.4	11168.7	8778.6	7097.9	5970.6	5243.8	4763.0	4586.4
67.5°	10579.1	6998.6	4674.7	3350.3	2454.8	1958.2	1761.1	1679.1
70°	4748.8	2464.2	1510.4	1179.3	1016.9	933.4	897.1	884.5
72.5°	1431.6	1035.8	873.4	788.3	723.7	682.7	652.7	649.6
75°	864.0	718.9	638.5	588.1	547.1	514.0	498.2	493.5
77.5°	603.8	528.2	490.3	454.1	422.5	397.3	383.1	372.1
80°	424.1	387.8	370.5	350.0	329.5	305.9	285.4	275.9
82.5°	283.8	275.9	275.9	263.3	246.0	223.9	182.9	173.4
85°	182.9	181.3	184.5	179.7	167.1	143.5	118.2	111.9
87.5°	85.1	86.7	96.2	94.6	91.4	75.7	59.9	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)