

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: P193395

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193395
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35438 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

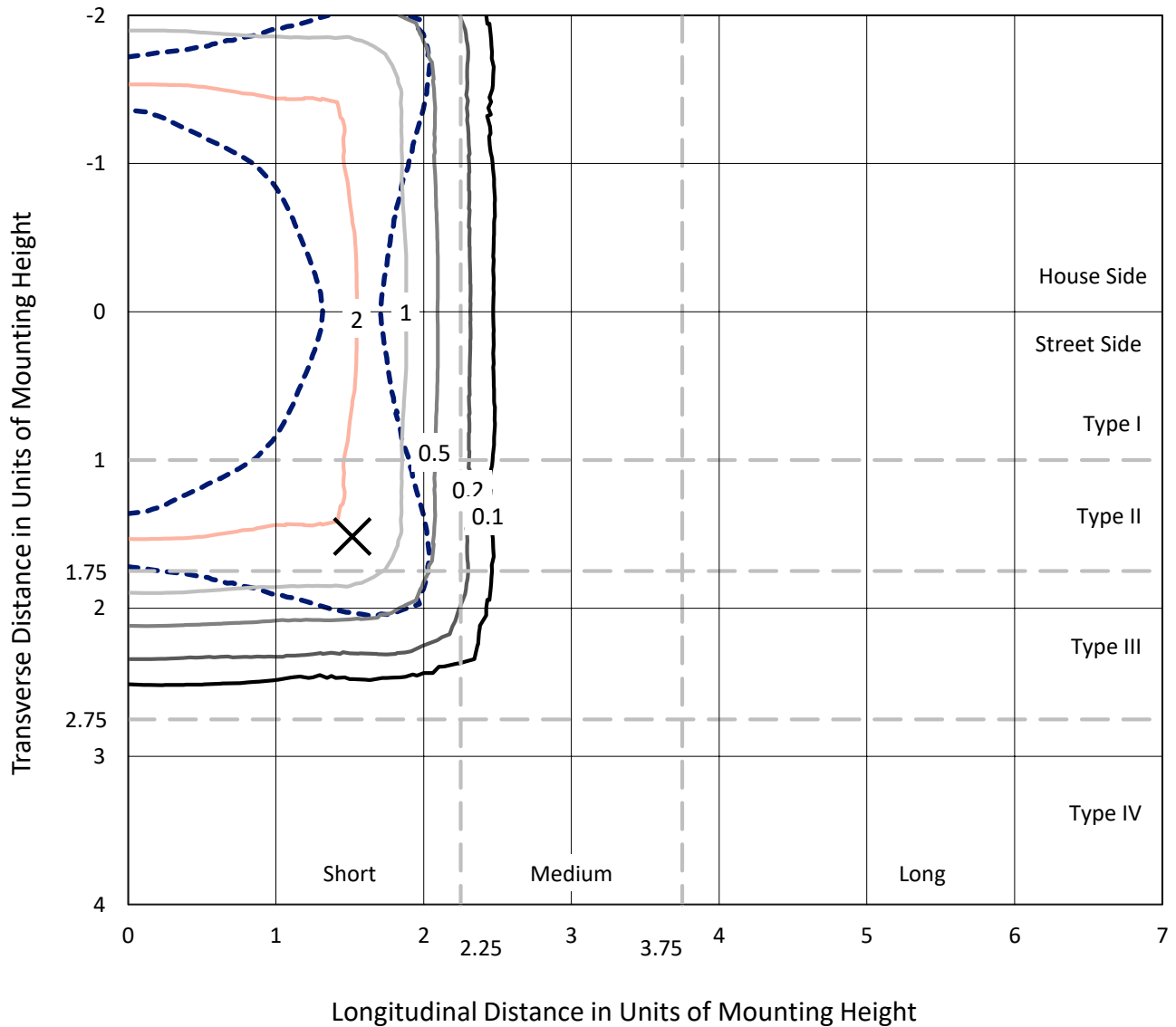
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

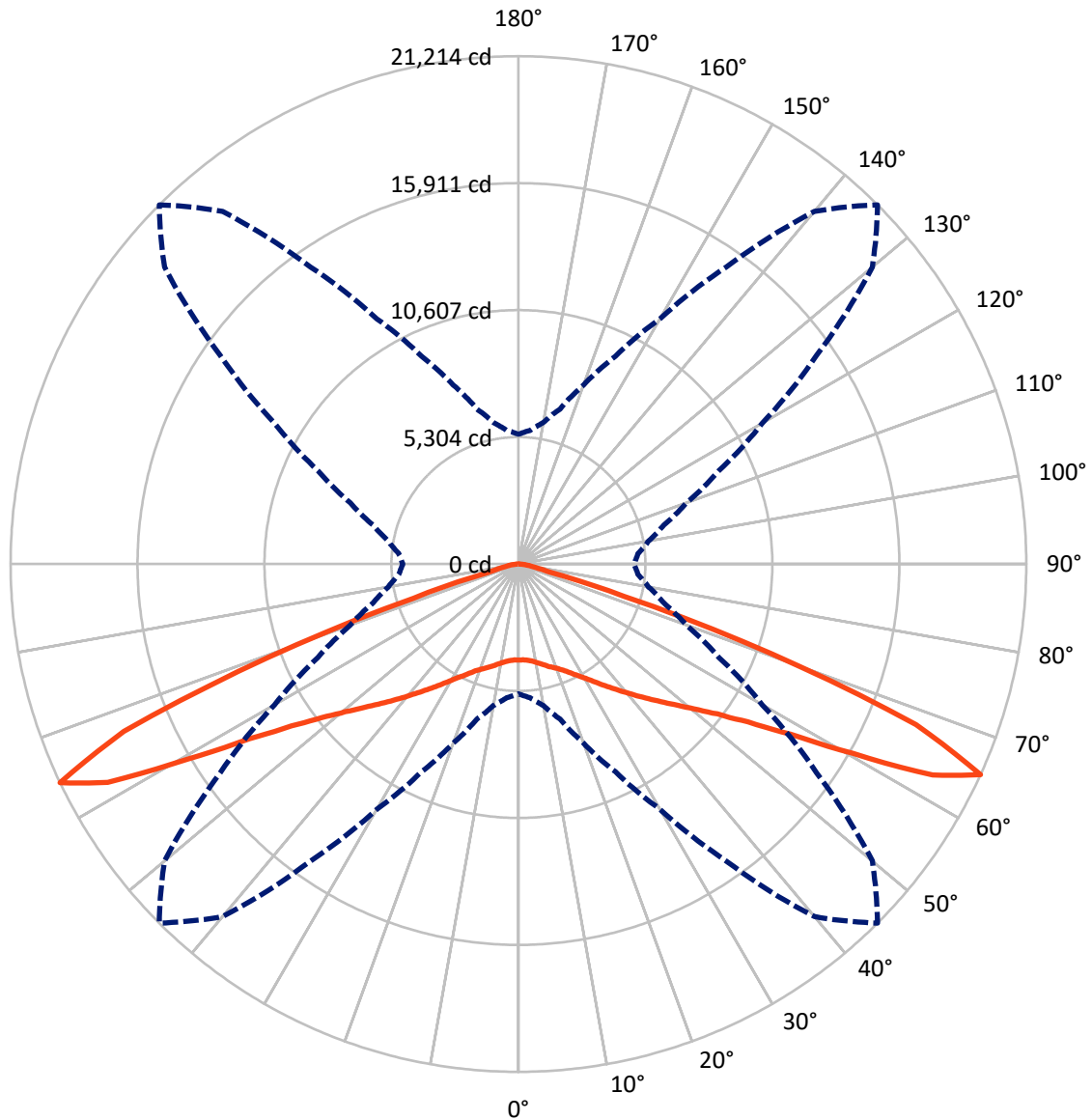
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 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	17719.0	0.0	17719.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17719.0	0.0	17719.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35438.0	0.0	35438.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	1.1
10°-20°	1253.5	3.5
20°-30°	2343.7	6.6
30°-40°	3963.9	11.2
40°-50°	6481.4	18.3
50°-60°	10306.5	29.1
60°-70°	9316.4	26.3
70°-80°	1179.0	3.3
80°-90°	202.8	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°	35438.0	100.0
0°-180°	35438.0	100.0



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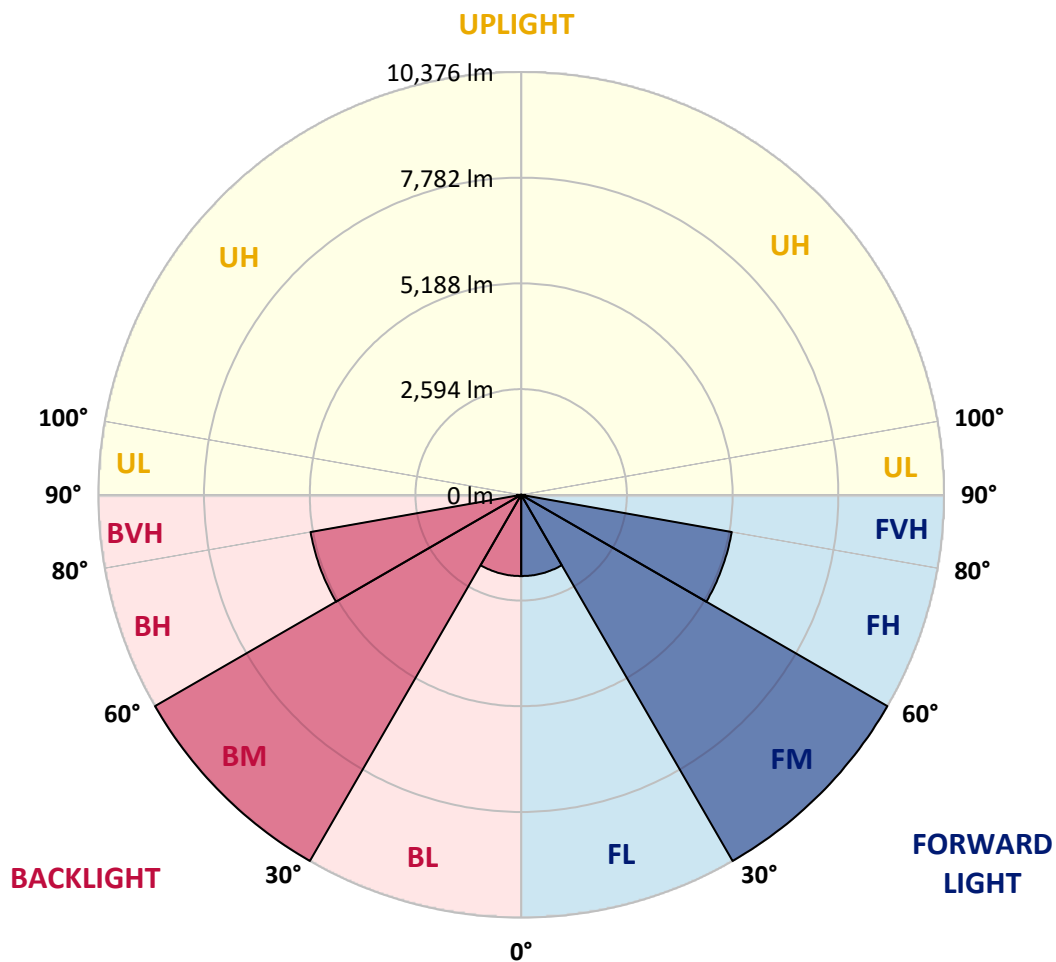
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1994.0	5.6			
FM	(30°-60°)	10375.9	29.3			
FH	(60°-80°)	5247.7	14.8			G3/7500
FVH	(80°-90°)	101.4	0.3			G2/225
BL	(0°-30°)	1994.0	5.6	B3/2500		
BM	(30°-60°)	10375.9	29.3	B5		
BH	(60°-80°)	5247.7	14.8	B5		G3/7500
BVH	(80°-90°)	101.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8
2.5°	4013.1	4016.5	4019.8	4016.5	4019.8	4014.8	4011.5	4016.5	4011.5	4006.5	4009.8
5°	4048.0	4049.7	4049.7	4044.7	4049.7	4046.3	4041.4	4048.0	4043.0	4038.0	4041.4
7.5°	4106.1	4112.7	4107.8	4102.8	4106.1	4102.8	4099.5	4101.1	4099.5	4094.5	4096.1
10°	4184.1	4189.1	4185.8	4184.1	4187.4	4185.8	4182.4	4180.8	4182.4	4177.5	4177.5
12.5°	4278.7	4277.0	4275.4	4277.0	4282.0	4282.0	4280.4	4282.0	4285.3	4287.0	4283.7
15°	4371.6	4375.0	4375.0	4375.0	4384.9	4393.2	4398.2	4401.5	4408.2	4409.8	4403.2
17.5°	4487.8	4487.8	4486.2	4487.8	4497.8	4511.1	4516.0	4522.7	4529.3	4534.3	4526.0
20°	4617.3	4620.6	4620.6	4623.9	4637.2	4652.1	4652.1	4655.5	4652.1	4655.5	4650.5
22.5°	4774.9	4784.9	4784.9	4786.6	4799.8	4818.1	4813.1	4818.1	4809.8	4816.4	4809.8
25°	4980.8	4995.7	4992.4	4992.4	5002.3	5013.9	5015.6	5025.6	5023.9	5032.2	5027.2
27.5°	5213.1	5236.3	5243.0	5241.3	5248.0	5259.6	5262.9	5274.5	5267.9	5274.5	5271.2
30°	5491.9	5501.9	5515.2	5520.2	5528.5	5540.1	5540.1	5541.7	5533.4	5543.4	5548.4
32.5°	5780.7	5799.0	5812.3	5842.1	5857.1	5865.4	5863.7	5867.0	5858.7	5872.0	5882.0
35°	6162.5	6175.7	6197.3	6220.5	6240.5	6238.8	6233.8	6235.5	6235.5	6247.1	6257.1
37.5°	6622.2	6625.5	6653.7	6686.9	6696.9	6686.9	6657.0	6650.4	6635.5	6650.4	6667.0
40°	7108.5	7120.1	7176.5	7198.1	7203.1	7184.8	7141.7	7116.8	7083.6	7101.8	7125.1
42.5°	7618.0	7641.2	7692.7	7730.9	7747.5	7735.8	7676.1	7637.9	7594.8	7604.7	7628.0
45°	8182.3	8210.5	8283.5	8320.1	8351.6	8333.3	8275.3	8217.2	8149.1	8154.1	8190.6
47.5°	8813.0	8841.2	8935.8	8997.2	9013.8	9010.5	8945.8	8866.1	8773.2	8769.8	8801.4
50°	9520.0	9548.2	9666.1	9760.7	9808.8	9803.8	9727.5	9614.6	9501.8	9503.4	9543.3
52.5°	10210.5	10245.3	10368.1	10530.8	10625.4	10693.4	10647.0	10540.7	10403.0	10406.3	10442.8
55°	10857.7	10915.8	11056.9	11277.6	11453.6	11644.4	11699.2	11695.9	11612.9	11636.1	11672.7
57.5°	11171.4	11257.7	11475.1	11823.7	12182.2	12570.5	12899.2	13144.8	13249.4	13407.0	13370.5
60°	10577.3	10715.0	11035.3	11548.2	12256.9	13066.8	13934.8	14782.9	15506.6	16052.6	15738.9
62.5°	8660.3	8839.5	9227.9	9885.2	10957.3	12253.5	13914.9	15919.8	18104.0	19421.8	18480.7
65°	5418.9	5604.8	5999.8	6703.5	7958.2	9569.8	11823.7	15146.4	19227.6	21214.3	19299.0
67.5°	2112.8	2214.0	2428.1	2877.9	3820.6	5254.6	7516.8	11287.6	16168.8	17909.8	15868.4
70°	1058.9	1068.8	1108.7	1191.7	1394.1	1810.7	2755.1	5233.0	9272.7	11199.6	8939.1
72.5°	765.1	766.8	786.7	823.2	887.9	980.9	1160.1	1601.6	3015.7	4609.0	2826.5
75°	585.9	592.5	604.1	624.0	658.9	705.4	770.1	922.8	1143.5	1326.1	1115.3
77.5°	451.4	464.7	473.0	491.3	512.8	544.4	562.6	620.7	722.0	760.1	748.5
80°	343.6	355.2	373.4	388.4	403.3	418.2	411.6	438.2	491.3	522.8	506.2
82.5°	219.1	232.4	285.5	298.7	305.4	315.3	303.7	305.4	328.6	348.5	328.6
85°	141.1	149.4	180.9	197.5	199.2	205.8	200.8	189.2	189.2	172.6	194.2
87.5°	64.7	66.4	81.3	96.3	99.6	89.6	88.0	84.6	68.0	64.7	69.7
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°	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8	4009.8
2.5°	4008.2	4011.5	4013.1	4018.1	4019.8	4019.8	4021.4	4024.8
5°	4039.7	4044.7	4046.3	4053.0	4054.6	4053.0	4056.3	4058.0
7.5°	4096.1	4104.4	4107.8	4114.4	4109.4	4116.0	4117.7	4117.7
10°	4179.1	4187.4	4189.1	4195.7	4192.4	4195.7	4195.7	4192.4
12.5°	4288.7	4290.3	4285.3	4290.3	4283.7	4287.0	4282.0	4278.7
15°	4409.8	4404.8	4393.2	4393.2	4383.3	4384.9	4383.3	4381.6
17.5°	4527.7	4517.7	4509.4	4506.1	4497.8	4496.1	4491.1	4491.1
20°	4657.1	4652.1	4647.2	4640.5	4632.2	4623.9	4622.3	4625.6
22.5°	4813.1	4811.5	4811.5	4808.1	4796.5	4788.2	4783.2	4783.2
25°	5022.2	5007.3	5007.3	5005.6	5000.7	4995.7	4985.7	4990.7
27.5°	5257.9	5249.6	5256.3	5254.6	5249.6	5249.6	5243.0	5243.0
30°	5548.4	5545.0	5555.0	5546.7	5530.1	5528.5	5521.8	5513.5
32.5°	5883.6	5880.3	5895.2	5885.3	5858.7	5843.8	5830.5	5823.9
35°	6257.1	6258.7	6277.0	6270.3	6240.5	6230.5	6207.3	6203.9
37.5°	6665.3	6691.9	6723.4	6730.1	6705.2	6698.5	6673.6	6660.4
40°	7145.0	7179.9	7228.0	7239.6	7213.0	7208.1	7173.2	7155.0
42.5°	7656.2	7715.9	7775.7	7785.6	7759.1	7732.5	7699.3	7686.1
45°	8227.1	8298.5	8376.5	8396.4	8356.6	8325.0	8281.9	8281.9
47.5°	8867.8	8957.4	9045.4	9100.1	9063.6	9030.4	8979.0	8945.8
50°	9624.6	9747.4	9861.9	9918.4	9860.3	9797.2	9707.6	9677.7
52.5°	10573.9	10706.7	10806.3	10776.4	10686.8	10598.8	10500.9	10461.1
55°	11785.5	11830.3	11830.3	11717.5	11538.2	11390.5	11236.2	11184.7
57.5°	13300.8	13128.2	12862.7	12525.7	12102.5	11734.1	11485.1	11367.3
60°	15081.7	14251.8	13314.1	12393.0	11636.1	11012.1	10642.0	10472.7
62.5°	16268.4	14097.5	12218.7	10739.9	9651.1	8899.3	8388.1	8188.9
65°	15204.5	11757.3	9241.2	7472.0	6285.3	5520.2	5013.9	4828.1
67.5°	11136.6	7367.4	4921.0	3526.9	2584.1	2061.3	1853.9	1767.6
70°	4999.0	2594.1	1590.0	1241.5	1070.5	982.5	944.4	931.1
72.5°	1507.0	1090.4	919.5	829.8	761.8	718.6	687.1	683.8
75°	909.5	756.8	672.2	619.1	575.9	541.1	524.5	519.5
77.5°	635.7	556.0	516.2	478.0	444.8	418.2	403.3	391.7
80°	446.5	408.3	390.0	368.5	346.9	322.0	300.4	290.4
82.5°	298.7	290.4	290.4	277.2	258.9	235.7	192.5	182.6
85°	192.5	190.9	194.2	189.2	175.9	151.0	124.5	117.8
87.5°	89.6	91.3	101.2	99.6	96.3	79.7	63.1	59.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)