

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: P191615

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44228 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

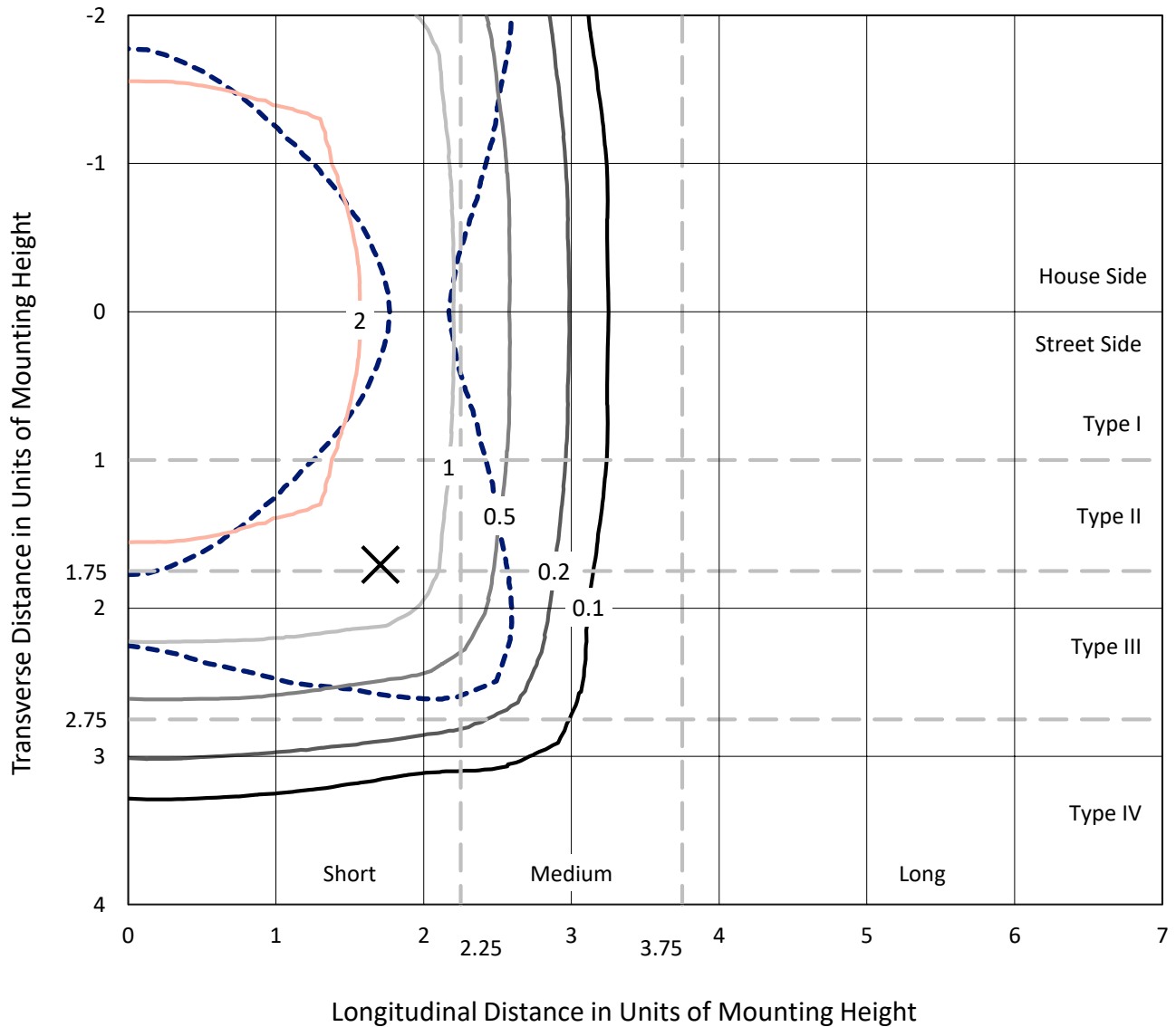
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

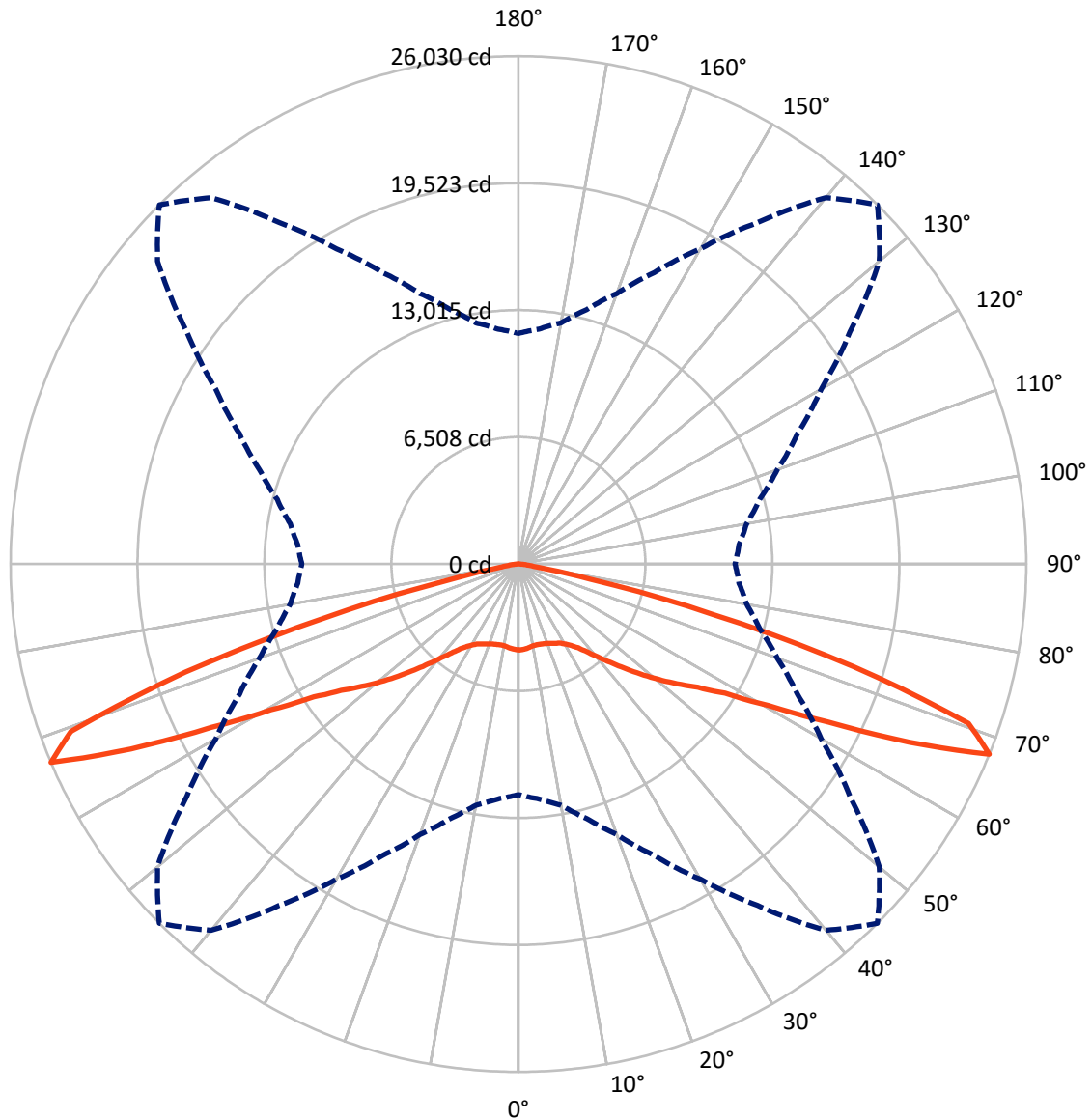
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22114.0	0.0	22114.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22114.0	0.0	22114.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	44228.0	0.0	44228.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	0.9
10°-20°	1197.1	2.7
20°-30°	2035.0	4.6
30°-40°	3326.6	7.5
40°-50°	5938.5	13.4
50°-60°	10012.5	22.6
60°-70°	15537.9	35.1
70°-80°	5459.4	12.3
80°-90°	308.5	0.7
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°	44228.0	100.0
0°-180°	44228.0	100.0



REPORT NUMBER: P191615

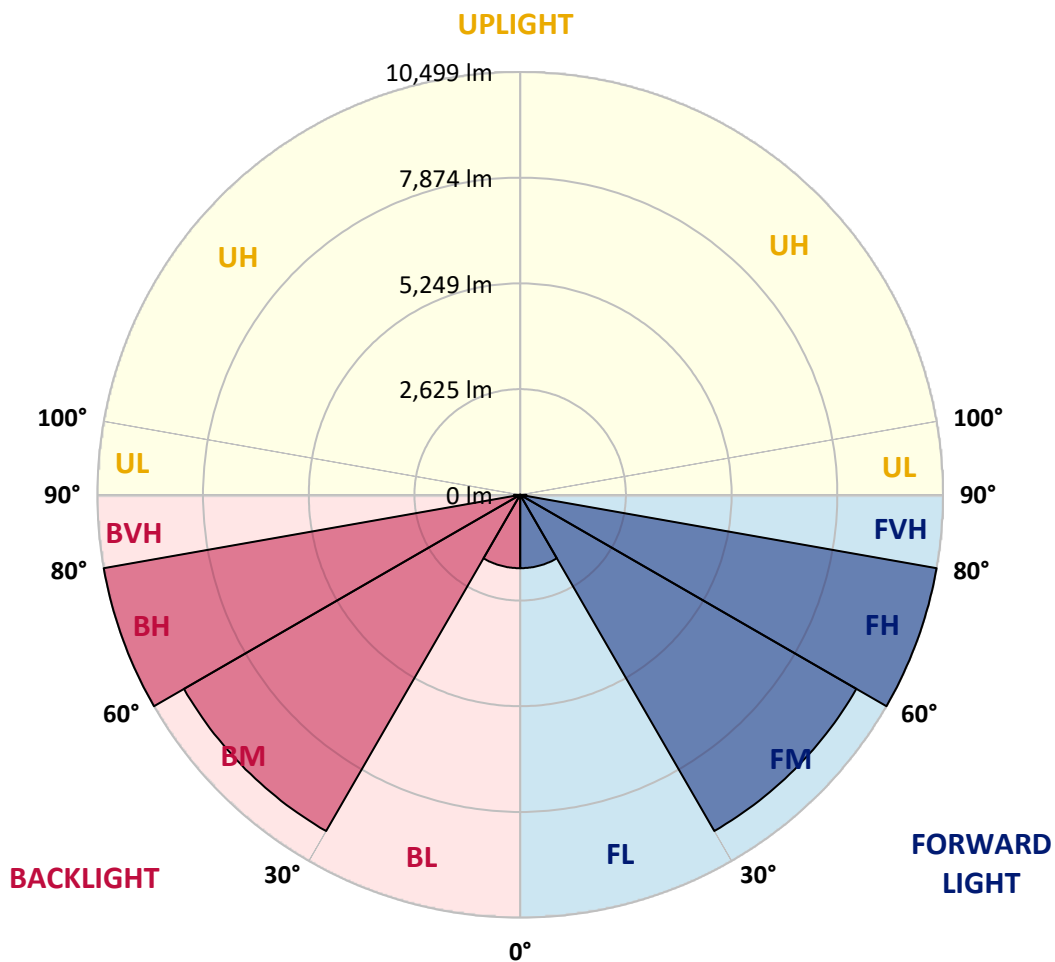
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.3	4.1			
FM	(30°-60°)	9638.8	21.8			
FH	(60°-80°)	10498.6	23.7			G4/12000
FVH	(80°-90°)	154.3	0.3			G2/225
BL	(0°-30°)	1822.3	4.1	B3/2500		
BM	(30°-60°)	9638.8	21.8	B5		
BH	(60°-80°)	10498.6	23.7	B5		G4/12000
BVH	(80°-90°)	154.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5
2.5°	4391.2	4395.3	4395.3	4395.3	4393.3	4393.3	4389.2	4393.3	4391.2	4385.1	4387.2
5°	4354.6	4358.7	4358.7	4356.7	4362.8	4360.7	4354.6	4358.7	4356.7	4352.6	4354.6
7.5°	4301.7	4307.8	4307.8	4305.8	4311.9	4309.9	4305.8	4307.8	4307.8	4301.7	4301.7
10°	4242.8	4246.8	4246.8	4244.8	4255.0	4255.0	4252.9	4259.0	4261.1	4255.0	4250.9
12.5°	4187.8	4193.9	4193.9	4202.1	4212.3	4216.3	4226.5	4234.6	4242.8	4240.7	4232.6
15°	4155.3	4159.4	4167.5	4177.7	4193.9	4208.2	4224.5	4242.8	4259.0	4263.1	4250.9
17.5°	4135.0	4141.1	4153.3	4167.5	4189.9	4214.3	4238.7	4263.1	4285.5	4293.6	4279.4
20°	4128.9	4132.9	4145.1	4169.5	4200.0	4236.7	4271.2	4299.7	4330.2	4340.4	4330.2
22.5°	4141.1	4149.2	4163.4	4191.9	4232.6	4279.4	4320.0	4358.7	4397.3	4415.6	4401.4
25°	4196.0	4204.1	4222.4	4259.0	4303.8	4352.6	4399.4	4444.1	4478.7	4497.0	4486.8
27.5°	4297.7	4307.8	4330.2	4366.8	4415.6	4468.5	4519.4	4556.0	4584.5	4590.6	4578.4
30°	4450.2	4472.6	4499.0	4539.7	4596.7	4641.4	4692.3	4724.8	4759.4	4759.4	4749.2
32.5°	4688.2	4710.6	4739.0	4777.7	4822.4	4871.2	4916.0	4944.5	4981.1	4983.1	4958.7
35°	5044.1	5054.3	5078.7	5103.1	5143.8	5186.5	5225.1	5243.4	5274.0	5276.0	5253.6
37.5°	5514.0	5516.0	5532.3	5540.4	5577.0	5623.8	5660.4	5672.6	5701.1	5697.0	5674.6
40°	6061.1	6071.3	6077.4	6089.6	6128.2	6173.0	6211.6	6217.7	6248.2	6242.1	6213.6
42.5°	6693.6	6697.7	6732.3	6750.6	6787.2	6809.6	6858.4	6864.5	6901.1	6884.8	6852.3
45°	7403.5	7440.1	7472.6	7509.2	7547.9	7574.3	7613.0	7604.8	7629.2	7604.8	7586.5
47.5°	8149.9	8176.4	8249.6	8306.5	8369.6	8392.0	8446.9	8422.5	8446.9	8412.3	8406.2
50°	8971.6	9018.4	9081.5	9146.5	9213.7	9250.3	9321.5	9291.0	9323.5	9291.0	9272.6
52.5°	9781.1	9793.3	9931.6	10027.2	10120.8	10163.5	10206.2	10192.0	10194.0	10192.0	10173.7
55°	10549.9	10578.4	10716.7	10846.9	11009.6	11129.6	11202.8	11194.7	11176.4	11158.1	11127.6
57.5°	11416.4	11444.9	11603.5	11764.2	11949.3	12120.1	12268.6	12421.2	12480.1	12496.4	12429.3
60°	12587.9	12585.9	12797.4	12992.7	13257.1	13511.3	13836.8	14168.3	14548.6	14725.6	14491.7
62.5°	13779.8	13828.6	14133.7	14479.5	15024.6	15555.4	16155.4	16745.3	17347.3	17837.5	17316.8
65°	13637.4	13824.6	14278.1	15061.2	16068.0	17263.9	18557.5	19926.3	21162.9	22013.1	21059.2
67.5°	11819.1	12085.6	12547.3	13499.1	14758.1	16482.9	18655.1	21362.3	24508.7	26030.1	24144.7
70°	8566.9	8867.9	9352.0	10281.5	11528.3	13167.6	15527.0	18777.2	22942.6	24476.2	22399.6
72.5°	4263.1	4425.8	4724.8	5316.7	6260.4	7590.6	9730.3	12854.4	16539.8	17947.3	16049.7
75°	1448.2	1523.4	1574.3	1767.5	2066.5	2589.2	3652.9	5619.7	8573.0	10277.4	8450.9
77.5°	835.9	838.0	872.6	907.1	958.0	1014.9	1157.3	1519.3	2627.8	3732.2	2719.4
80°	541.0	539.0	567.5	593.9	628.5	657.0	665.1	703.7	811.5	962.0	860.3
82.5°	280.7	315.3	378.3	412.9	478.0	490.2	473.9	459.7	486.1	504.4	516.6
85°	154.6	134.2	201.4	260.3	288.8	292.9	292.9	276.6	286.8	280.7	305.1
87.5°	71.2	65.1	79.3	128.1	136.3	115.9	122.0	107.8	77.3	75.3	85.4
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°	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5	4407.5
2.5°	4387.2	4389.2	4389.2	4395.3	4397.3	4401.4	4405.5	4407.5
5°	4352.6	4358.7	4354.6	4360.7	4360.7	4364.8	4364.8	4366.8
7.5°	4301.7	4307.8	4307.8	4307.8	4305.8	4311.9	4311.9	4311.9
10°	4248.9	4252.9	4250.9	4246.8	4242.8	4248.9	4246.8	4244.8
12.5°	4232.6	4222.4	4214.3	4210.2	4202.1	4204.1	4198.0	4198.0
15°	4242.8	4224.5	4210.2	4204.1	4196.0	4191.9	4187.8	4189.9
17.5°	4269.2	4246.8	4228.5	4218.4	4208.2	4202.1	4193.9	4196.0
20°	4316.0	4289.5	4263.1	4242.8	4224.5	4214.3	4208.2	4206.1
22.5°	4385.1	4346.5	4307.8	4277.3	4252.9	4238.7	4232.6	4228.5
25°	4464.5	4421.7	4377.0	4342.4	4318.0	4299.7	4287.5	4287.5
27.5°	4564.1	4529.5	4488.9	4448.2	4425.8	4407.5	4399.4	4395.3
30°	4730.9	4698.4	4665.8	4627.2	4598.7	4580.4	4566.2	4553.9
32.5°	4944.5	4918.0	4891.6	4863.1	4836.7	4812.3	4789.9	4779.7
35°	5245.5	5225.1	5206.8	5174.3	5164.1	5149.9	5137.7	5127.5
37.5°	5660.4	5652.3	5652.3	5617.7	5609.6	5603.5	5591.2	5593.3
40°	6205.5	6213.6	6203.5	6191.3	6185.2	6168.9	6168.9	6183.1
42.5°	6850.2	6856.3	6878.7	6858.4	6880.8	6860.4	6848.2	6858.4
45°	7598.7	7621.1	7665.8	7645.5	7659.7	7625.2	7582.5	7584.5
47.5°	8438.7	8459.1	8477.4	8463.1	8465.2	8408.2	8351.3	8337.0
50°	9311.3	9319.4	9329.6	9309.3	9313.3	9250.3	9185.2	9187.2
52.5°	10173.7	10212.3	10253.0	10198.1	10185.9	10114.7	10023.2	9986.6
55°	11160.1	11215.0	11168.3	11072.7	10977.1	10881.5	10761.5	10741.1
57.5°	12376.4	12282.8	12136.4	11955.4	11823.2	11688.9	11566.9	11516.1
60°	14068.6	13716.8	13452.4	13183.9	13015.1	12850.3	12689.6	12665.2
62.5°	16460.5	15852.4	15325.6	14770.3	14316.8	13962.9	13680.2	13600.8
65°	19458.5	18020.5	16773.7	15610.3	14599.5	13836.8	13356.8	13145.2
67.5°	20748.0	17908.7	15771.0	14119.5	12797.4	11874.0	11355.4	11097.1
70°	18232.1	14851.7	12526.9	10873.3	9669.3	8684.8	8215.0	7938.4
72.5°	12543.2	9447.6	7470.6	6097.7	5135.7	4311.9	3986.5	3962.1
75°	5631.9	3730.2	2570.9	1981.0	1667.8	1450.2	1383.1	1332.2
77.5°	1576.3	1165.4	1039.3	972.2	907.1	831.9	803.4	809.5
80°	766.8	724.1	695.6	652.9	593.9	530.9	502.4	514.6
82.5°	508.5	502.4	520.7	490.2	404.8	343.7	288.8	264.4
85°	309.2	313.2	319.3	321.4	272.5	191.2	130.2	146.4
87.5°	122.0	140.3	152.5	158.6	148.5	91.5	73.2	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)