

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: P191706

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55121 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

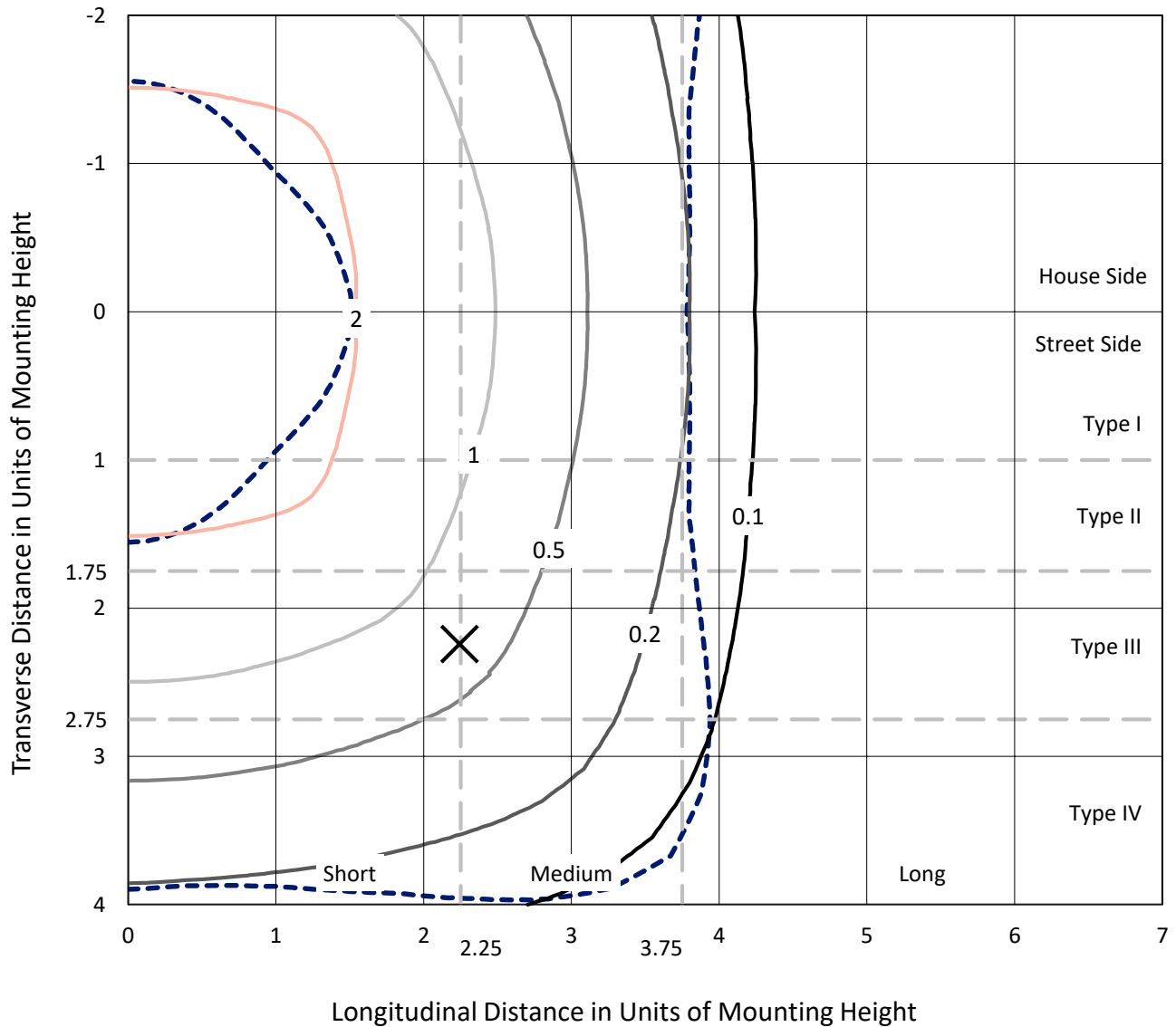
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

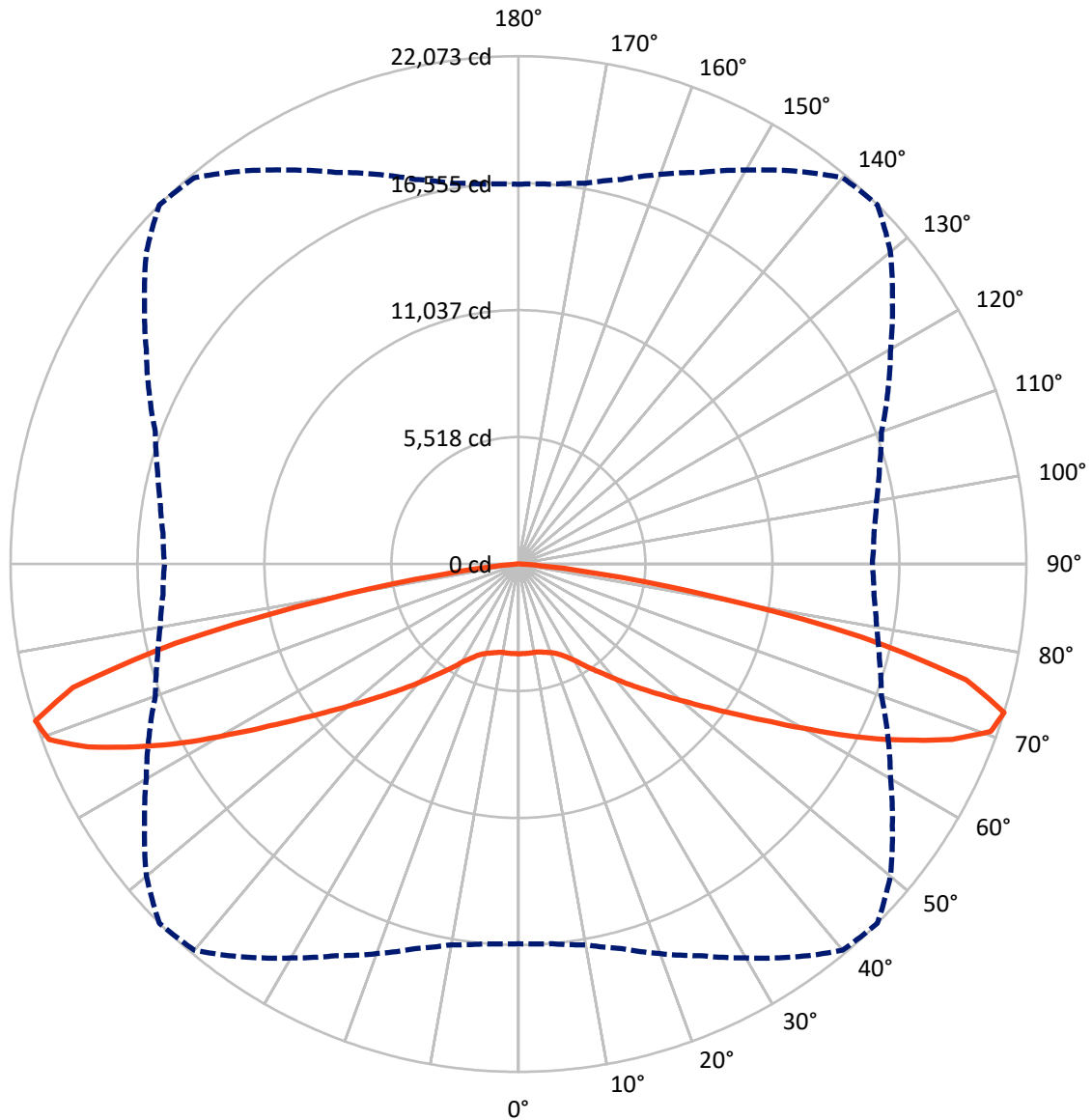


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27560.5	0.0	27560.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27560.5	0.0	27560.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55121.0	0.0	55121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.7	0.7
10°-20°	1132.0	2.1
20°-30°	2068.7	3.8
30°-40°	3566.8	6.5
40°-50°	6097.3	11.1
50°-60°	9883.0	17.9
60°-70°	16395.5	29.7
70°-80°	14440.6	26.2
80°-90°	1164.3	2.1
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°	55121.0	100.0
0°-180°	55121.0	100.0



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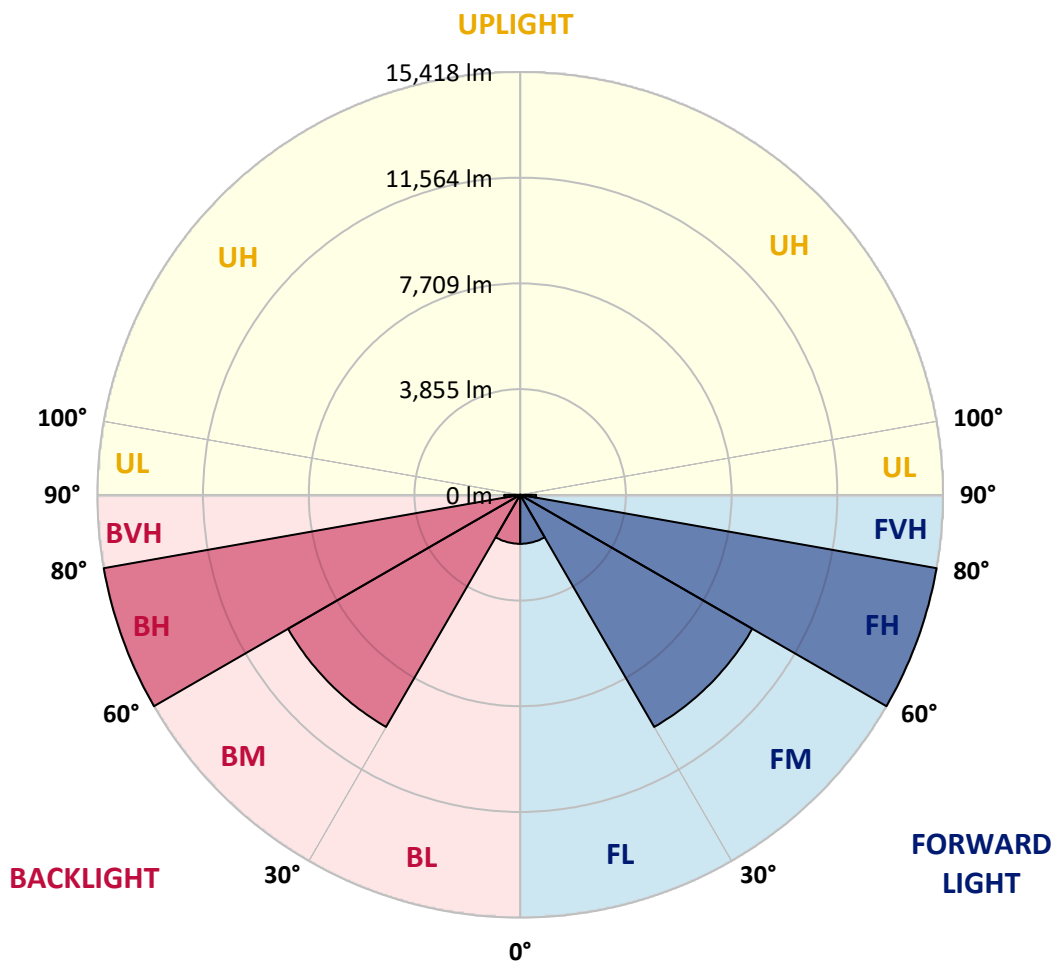
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1786.7	3.2			
FM	(30°-60°)	9773.5	17.7			
FH	(60°-80°)	15418.1	28.0			G5
FVH	(80°-90°)	582.2	1.1			G4/750
BL	(0°-30°)	1786.7	3.2	B3/2500		
BM	(30°-60°)	9773.5	17.7	B5		
BH	(60°-80°)	15418.1	28.0	B5		G5
BVH	(80°-90°)	582.2	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4
2.5°	3903.4	3906.0	3908.5	3906.0	3906.0	3903.4	3900.9	3903.4	3900.9	3895.8	3898.4
5°	3916.1	3921.1	3921.1	3916.1	3918.6	3916.1	3911.0	3913.5	3908.5	3900.9	3900.9
7.5°	3931.2	3933.8	3933.8	3928.7	3931.2	3926.2	3921.1	3918.6	3913.5	3903.4	3895.8
10°	3954.0	3956.5	3954.0	3948.9	3948.9	3941.3	3928.7	3923.6	3913.5	3898.4	3890.8
12.5°	3979.3	3981.8	3979.3	3974.2	3971.7	3959.0	3948.9	3941.3	3933.8	3921.1	3908.5
15°	4014.7	4019.7	4014.7	4004.5	3997.0	3986.9	3981.8	3984.3	3986.9	3976.7	3964.1
17.5°	4080.4	4082.9	4075.3	4052.6	4042.5	4032.4	4032.4	4037.4	4045.0	4039.9	4027.3
20°	4201.7	4194.2	4176.5	4148.7	4136.0	4118.3	4115.8	4118.3	4118.3	4115.8	4105.7
22.5°	4353.4	4348.4	4325.6	4290.2	4272.5	4262.4	4247.2	4234.6	4232.1	4224.5	4214.4
25°	4535.5	4532.9	4505.1	4474.8	4462.1	4449.5	4436.9	4419.2	4404.0	4386.3	4376.2
27.5°	4768.0	4757.9	4717.5	4702.3	4684.6	4677.0	4659.3	4639.1	4626.5	4603.7	4591.1
30°	5023.4	5023.4	4990.5	4985.5	4985.5	4967.8	4947.5	4912.1	4889.4	4866.6	4859.1
32.5°	5278.7	5281.3	5248.4	5258.5	5266.1	5278.7	5283.8	5271.1	5256.0	5253.4	5238.3
35°	5647.8	5637.7	5604.9	5612.4	5609.9	5607.4	5607.4	5635.2	5640.2	5645.3	5615.0
37.5°	6105.4	6105.4	6072.6	6072.6	6057.4	6042.2	6022.0	6039.7	6067.5	6075.1	6054.9
40°	6628.7	6646.4	6606.0	6603.5	6608.5	6560.5	6537.7	6565.5	6583.2	6613.6	6590.8
42.5°	7245.6	7233.0	7192.5	7187.5	7159.6	7144.5	7124.3	7147.0	7174.8	7195.0	7202.6
45°	7837.2	7827.1	7781.6	7781.6	7753.8	7741.1	7751.2	7789.1	7801.8	7829.6	7857.4
47.5°	8421.2	8408.5	8378.2	8390.8	8393.4	8416.1	8449.0	8484.4	8519.8	8557.7	8570.3
50°	9017.8	9020.3	8987.5	9017.8	9055.7	9118.9	9207.4	9265.6	9338.9	9386.9	9402.1
52.5°	9561.4	9571.5	9606.9	9677.7	9753.5	9877.4	10029.1	10170.6	10292.0	10372.9	10367.8
55°	10213.6	10228.8	10314.7	10436.1	10560.0	10747.1	10972.1	11222.3	11424.6	11540.9	11467.6
57.5°	11047.9	11080.8	11176.8	11341.2	11525.7	11768.4	12076.8	12453.5	12767.0	12923.8	12804.9
60°	12193.1	12213.4	12329.7	12511.7	12734.2	13035.0	13447.1	13952.7	14395.1	14602.4	14465.9
62.5°	13702.4	13740.4	13833.9	14018.4	14246.0	14587.3	15090.4	15722.4	16273.5	16561.7	16253.3
65°	15505.0	15626.3	15704.7	15891.8	16104.1	16465.7	16991.5	17669.1	18260.6	18450.2	18093.8
67.5°	17289.8	17396.0	17532.5	17747.4	17962.3	18369.3	18857.3	19514.6	20164.3	20336.2	19782.6
70°	18071.0	18131.7	18344.1	18637.3	19049.4	19529.8	20093.5	20831.7	21635.7	21777.3	21074.4
72.5°	16506.1	16566.8	16804.4	17302.5	18020.5	18784.0	19767.4	20852.0	21913.8	22073.0	21104.8
75°	12483.9	12385.3	12736.7	13396.5	14364.8	15429.1	16804.4	18359.2	19893.8	20093.5	18938.2
77.5°	6451.8	6439.1	6704.6	7523.7	8679.0	9890.0	11404.4	13161.4	14663.1	15269.9	14329.4
80°	1817.7	1837.9	1964.4	2371.4	3046.4	3921.1	5104.3	6750.1	7978.8	8605.7	8079.9
82.5°	712.9	768.5	816.6	892.4	980.9	1109.8	1481.5	2204.5	2957.9	3534.3	2894.7
85°	255.3	273.0	386.8	457.6	465.2	490.5	558.7	652.3	786.2	937.9	771.1
87.5°	96.1	106.2	123.9	204.8	202.2	184.6	225.0	235.1	177.0	161.8	199.7
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°	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4	3903.4
2.5°	3893.3	3895.8	3895.8	3898.4	3900.9	3900.9	3906.0	3906.0
5°	3895.8	3895.8	3890.8	3893.3	3890.8	3890.8	3893.3	3893.3
7.5°	3890.8	3888.3	3883.2	3880.7	3875.6	3875.6	3875.6	3875.6
10°	3883.2	3880.7	3875.6	3873.1	3870.6	3870.6	3870.6	3870.6
12.5°	3903.4	3895.8	3890.8	3888.3	3888.3	3888.3	3888.3	3888.3
15°	3956.5	3938.8	3926.2	3926.2	3928.7	3933.8	3933.8	3938.8
17.5°	4022.2	4002.0	3989.4	3979.3	3984.3	3991.9	3997.0	4002.0
20°	4100.6	4090.5	4072.8	4062.7	4062.7	4072.8	4077.9	4080.4
22.5°	4209.3	4201.7	4194.2	4181.5	4181.5	4186.6	4196.7	4196.7
25°	4371.1	4366.1	4361.0	4350.9	4348.4	4348.4	4353.4	4358.5
27.5°	4573.4	4575.9	4570.8	4568.3	4560.7	4558.2	4565.8	4563.3
30°	4843.9	4856.5	4869.2	4859.1	4846.4	4838.8	4831.2	4821.1
32.5°	5210.5	5195.3	5185.2	5167.5	5144.7	5124.5	5109.3	5091.6
35°	5556.8	5531.5	5521.4	5536.6	5534.1	5521.4	5503.7	5488.6
37.5°	5981.5	5976.5	5981.5	6009.4	6004.3	6016.9	5981.5	5979.0
40°	6517.5	6522.6	6558.0	6590.8	6608.5	6626.2	6606.0	6585.8
42.5°	7139.4	7136.9	7149.5	7195.0	7225.4	7245.6	7202.6	7197.6
45°	7796.7	7779.0	7789.1	7827.1	7857.4	7880.2	7832.1	7832.1
47.5°	8519.8	8489.4	8456.6	8499.6	8517.2	8532.4	8494.5	8481.9
50°	9326.2	9263.0	9192.3	9210.0	9210.0	9204.9	9156.9	9154.3
52.5°	10251.5	10135.2	10006.3	9958.3	9930.5	9900.1	9816.7	9776.3
55°	11315.9	11141.4	10939.2	10815.3	10749.6	10666.2	10527.1	10489.2
57.5°	12559.7	12286.7	11937.8	11786.1	11639.5	11503.0	11348.7	11305.8
60°	14033.6	13631.6	13169.0	12888.4	12729.1	12597.6	12438.4	12430.8
62.5°	15676.9	15042.3	14519.0	14266.2	14149.9	14033.6	13881.9	13902.2
65°	17348.0	16685.6	16195.2	15990.4	15881.7	15785.6	15633.9	15656.7
67.5°	18996.3	18387.0	17848.6	17638.7	17517.4	17396.0	17259.5	17282.3
70°	20179.5	19423.6	18816.8	18351.7	18060.9	17732.3	17519.9	17466.8
72.5°	19840.7	18675.3	17712.0	16789.3	16248.3	15808.4	15510.0	15381.1
75°	17171.0	15578.3	14339.5	13206.9	12569.8	12051.6	11674.9	11439.8
77.5°	12751.9	10961.9	9498.2	8193.6	7162.2	6469.5	5981.5	5665.5
80°	6980.1	5309.1	3880.7	2727.8	2004.8	1666.0	1471.4	1377.8
82.5°	2174.2	1403.1	1034.0	892.4	829.2	793.8	735.7	642.1
85°	692.7	606.7	563.8	538.5	513.2	447.5	308.4	280.6
87.5°	268.0	275.6	273.0	257.9	262.9	189.6	151.7	134.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)