

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: P190853

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190853
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 31392.3 lumens
Efficiency: N/A
Efficacy: 112.5 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

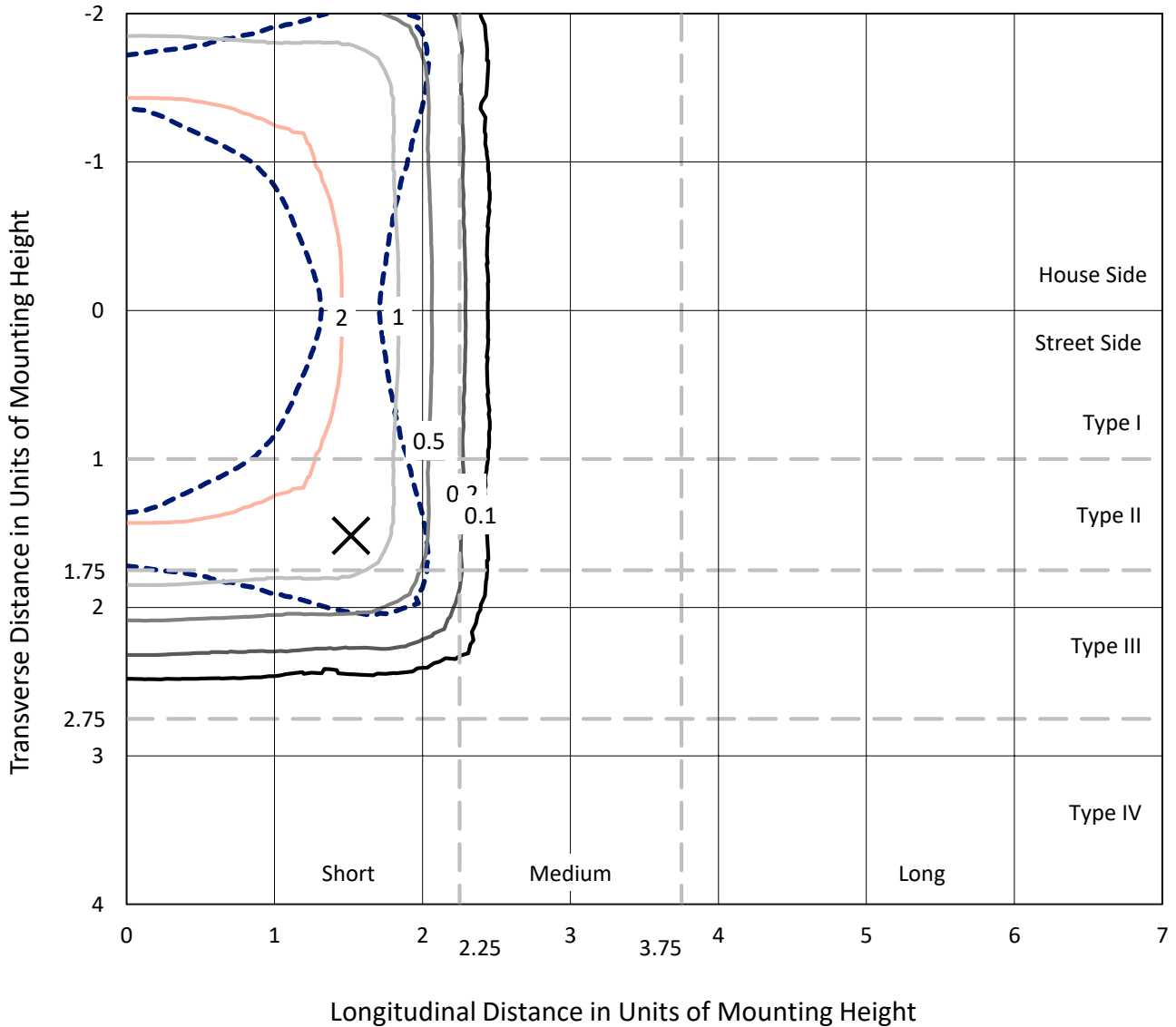
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

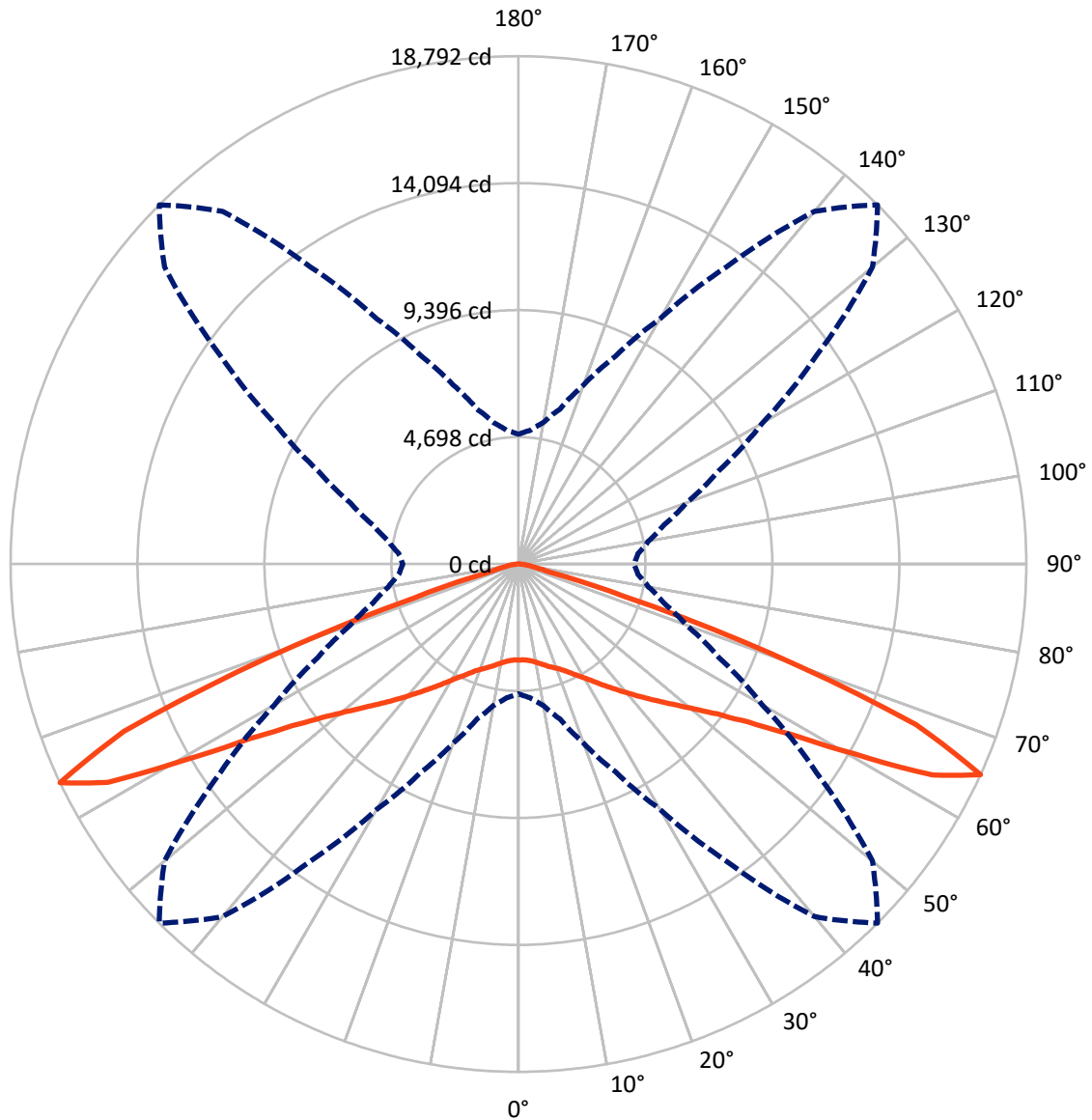
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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	15696.2	0.0	15696.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15696.2	0.0	15696.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	31392.3	0.0	31392.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	1.1
10°-20°	1110.4	3.5
20°-30°	2076.2	6.6
30°-40°	3511.4	11.2
40°-50°	5741.5	18.3
50°-60°	9129.8	29.1
60°-70°	8252.8	26.3
70°-80°	1044.4	3.3
80°-90°	179.7	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°	31392.3	100.0
0°-180°	31392.3	100.0



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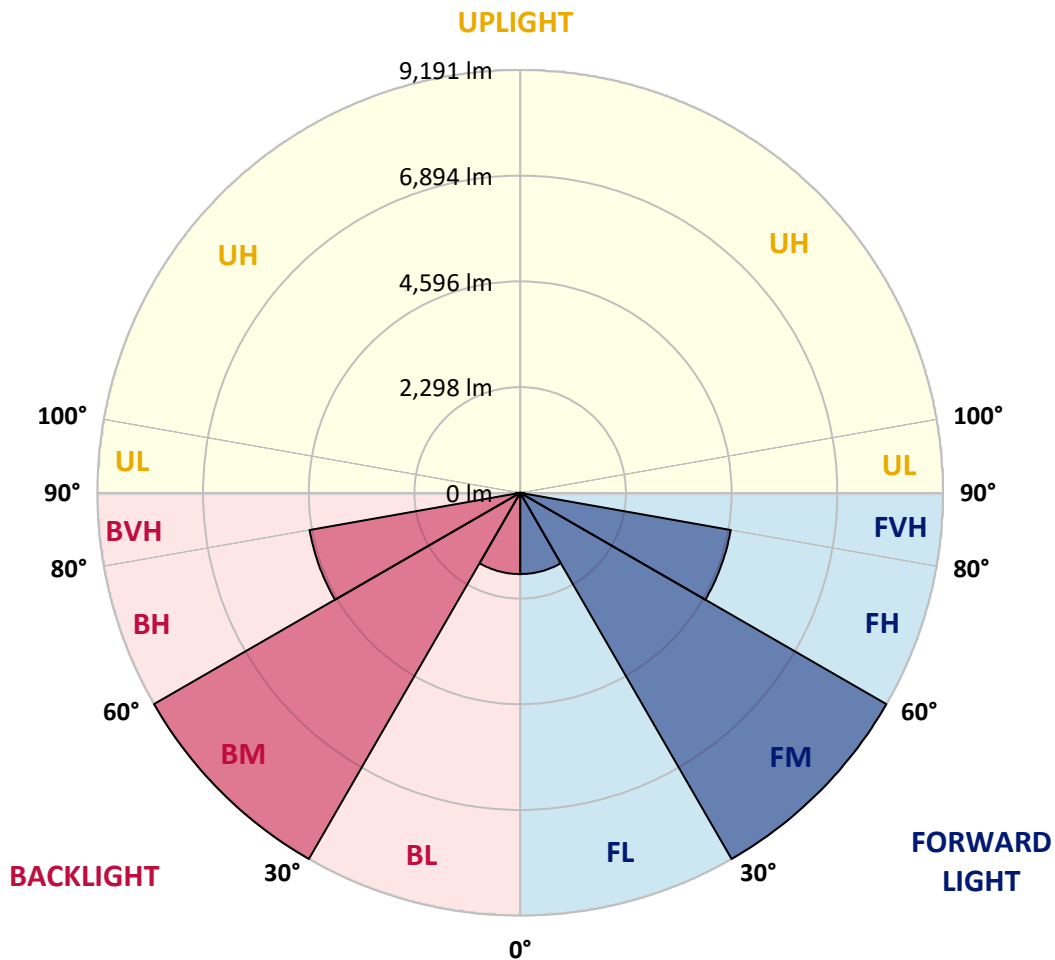
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.4	5.6			
FM	(30°-60°)	9191.3	29.3			
FH	(60°-80°)	4648.6	14.8			G2/5000
FVH	(80°-90°)	89.8	0.3			G1/100
BL	(0°-30°)	1766.4	5.6	B3/2500		
BM	(30°-60°)	9191.3	29.3	B5		
BH	(60°-80°)	4648.6	14.8	B4/5000		G2/5000
BVH	(80°-90°)	89.8	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°	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1
2.5°	3555.0	3557.9	3560.9	3557.9	3560.9	3556.5	3553.5	3557.9	3553.5	3549.1	3552.1
5°	3585.9	3587.4	3587.4	3582.9	3587.4	3584.4	3580.0	3585.9	3581.5	3577.1	3580.0
7.5°	3637.3	3643.2	3638.8	3634.3	3637.3	3634.3	3631.5	3632.9	3631.5	3627.1	3628.5
10°	3706.5	3710.9	3707.9	3706.5	3709.3	3707.9	3704.9	3703.5	3704.9	3700.5	3700.5
12.5°	3790.2	3788.8	3787.3	3788.8	3793.2	3793.2	3791.7	3793.2	3796.1	3797.6	3794.6
15°	3872.6	3875.6	3875.6	3875.6	3884.3	3891.7	3896.1	3899.1	3904.9	3906.3	3900.5
17.5°	3975.5	3975.5	3974.1	3975.5	3984.3	3996.1	4000.5	4006.4	4012.2	4016.6	4009.3
20°	4090.2	4093.1	4093.1	4096.0	4107.8	4121.1	4121.1	4123.9	4121.1	4123.9	4119.5
22.5°	4229.8	4238.7	4238.7	4240.1	4251.9	4268.1	4263.7	4268.1	4260.7	4266.6	4260.7
25°	4412.1	4425.4	4422.4	4422.4	4431.2	4441.6	4443.0	4451.9	4450.3	4457.7	4453.3
27.5°	4618.0	4638.6	4644.4	4643.0	4648.8	4659.1	4662.1	4672.3	4666.5	4672.3	4669.5
30°	4864.9	4873.7	4885.5	4889.9	4897.3	4907.6	4907.6	4909.0	4901.7	4910.6	4915.0
32.5°	5120.8	5137.0	5148.7	5175.2	5188.4	5195.8	5194.3	5197.2	5189.8	5201.6	5210.5
35°	5459.0	5470.7	5489.8	5510.4	5528.0	5526.6	5522.2	5523.6	5523.6	5534.0	5542.8
37.5°	5866.2	5869.1	5894.1	5923.5	5932.3	5923.5	5897.1	5891.2	5878.0	5891.2	5905.9
40°	6297.0	6307.2	6357.2	6376.4	6380.8	6364.6	6326.3	6304.3	6274.9	6291.0	6311.7
42.5°	6748.3	6768.9	6814.5	6848.2	6863.0	6852.7	6799.8	6766.0	6727.7	6736.5	6757.1
45°	7248.2	7273.2	7337.8	7370.3	7398.2	7382.0	7330.6	7279.1	7218.8	7223.2	7255.6
47.5°	7806.9	7831.9	7915.7	7970.1	7984.7	7981.9	7924.5	7853.9	7771.6	7768.7	7796.6
50°	8433.2	8458.2	8562.6	8646.4	8689.0	8684.6	8616.9	8517.0	8417.0	8418.5	8453.8
52.5°	9044.8	9075.7	9184.5	9328.6	9412.4	9472.6	9431.5	9337.4	9215.4	9218.3	9250.6
55°	9618.2	9669.6	9794.7	9990.1	10146.0	10315.1	10363.6	10360.7	10287.1	10307.8	10340.1
57.5°	9896.0	9972.5	10165.2	10473.9	10791.4	11135.4	11426.6	11644.1	11736.8	11876.5	11844.1
60°	9369.7	9491.8	9775.5	10229.8	10857.6	11575.1	12343.9	13095.3	13736.3	14220.0	13942.1
62.5°	7671.6	7830.4	8174.4	8756.7	9706.4	10854.6	12326.4	14102.4	16037.2	17204.5	16370.9
65°	4800.3	4964.9	5314.8	5938.2	7049.7	8477.3	10473.9	13417.2	17032.5	18792.4	17095.8
67.5°	1871.6	1961.3	2151.0	2549.4	3384.4	4654.7	6658.6	9998.9	14322.9	15865.1	14056.8
70°	938.0	946.8	982.1	1055.6	1235.0	1604.0	2440.6	4635.6	8214.1	9921.1	7918.7
72.5°	677.8	679.2	696.9	729.3	786.5	868.9	1027.7	1418.7	2671.4	4082.8	2503.8
75°	518.9	524.9	535.2	552.8	583.7	624.8	682.2	817.4	1013.0	1174.8	988.0
77.5°	399.9	411.6	419.0	435.2	454.3	482.2	498.4	549.8	639.5	673.4	663.1
80°	304.3	314.7	330.8	344.0	357.2	370.5	364.6	388.1	435.2	463.1	448.5
82.5°	194.1	205.8	252.9	264.6	270.6	279.4	269.0	270.6	291.1	308.7	291.1
85°	125.0	132.4	160.3	174.9	176.5	182.3	177.9	167.6	167.6	152.9	172.1
87.5°	57.4	58.8	72.0	85.3	88.2	79.4	77.9	75.0	60.3	57.4	61.8
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°	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1	3552.1
2.5°	3550.6	3553.5	3555.0	3559.4	3560.9	3560.9	3562.3	3565.3
5°	3578.5	3582.9	3584.4	3590.3	3591.8	3590.3	3593.2	3594.6
7.5°	3628.5	3635.9	3638.8	3644.7	3640.3	3646.1	3647.6	3647.6
10°	3702.1	3709.3	3710.9	3716.7	3713.8	3716.7	3716.7	3713.8
12.5°	3799.0	3800.6	3796.1	3800.6	3794.6	3797.6	3793.2	3790.2
15°	3906.3	3901.9	3891.7	3891.7	3882.8	3884.3	3882.8	3881.4
17.5°	4010.8	4002.0	3994.6	3991.7	3984.3	3982.9	3978.5	3978.5
20°	4125.5	4121.1	4116.7	4110.7	4103.4	4096.0	4094.6	4097.5
22.5°	4263.7	4262.1	4262.1	4259.3	4248.9	4241.6	4237.2	4237.2
25°	4448.9	4435.6	4435.6	4434.2	4429.8	4425.4	4416.6	4421.0
27.5°	4657.7	4650.3	4656.2	4654.7	4650.3	4650.3	4644.4	4644.4
30°	4915.0	4912.0	4920.8	4913.4	4898.8	4897.3	4891.4	4884.1
32.5°	5211.9	5209.0	5222.3	5213.4	5189.8	5176.6	5164.9	5159.0
35°	5542.8	5544.2	5560.4	5554.5	5528.0	5519.2	5498.7	5495.7
37.5°	5904.4	5927.9	5955.8	5961.8	5939.7	5933.8	5911.7	5900.0
40°	6329.3	6360.2	6402.9	6413.1	6389.6	6385.2	6354.3	6338.1
42.5°	6782.2	6835.1	6888.0	6896.8	6873.3	6849.8	6820.3	6808.6
45°	7287.9	7351.1	7420.2	7437.9	7402.6	7374.7	7336.4	7336.4
47.5°	7855.4	7934.8	8012.7	8061.3	8028.8	7999.5	7954.0	7924.5
50°	8525.8	8634.6	8736.1	8786.0	8734.6	8678.7	8599.3	8572.8
52.5°	9366.8	9484.4	9572.6	9546.2	9466.8	9388.8	9302.1	9266.8
55°	10440.0	10479.7	10479.7	10379.8	10221.0	10090.2	9953.4	9907.8
57.5°	11782.3	11629.4	11394.2	11095.7	10720.8	10394.5	10174.0	10069.5
60°	13359.9	12624.8	11794.1	10978.1	10307.8	9755.0	9427.1	9277.1
62.5°	14411.1	12488.1	10823.7	9513.9	8549.3	7883.4	7430.5	7254.1
65°	13468.7	10415.1	8186.2	6618.9	5567.7	4889.9	4441.6	4276.9
67.5°	9865.2	6526.3	4359.2	3124.2	2289.2	1826.0	1642.2	1565.8
70°	4428.4	2298.0	1408.5	1099.8	948.3	870.3	836.6	824.8
72.5°	1335.0	966.0	814.5	735.1	674.8	636.6	608.7	605.7
75°	805.7	670.4	595.5	548.4	510.1	479.3	464.6	460.2
77.5°	563.1	492.6	457.3	423.4	394.0	370.5	357.2	347.0
80°	395.5	361.7	345.6	326.4	307.3	285.2	266.1	257.3
82.5°	264.6	257.3	257.3	245.5	229.3	208.8	170.5	161.7
85°	170.5	169.1	172.1	167.6	155.8	133.8	110.3	104.3
87.5°	79.4	80.8	89.7	88.2	85.3	70.6	55.9	52.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)