

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: P190835

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190835
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29270.7 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G2

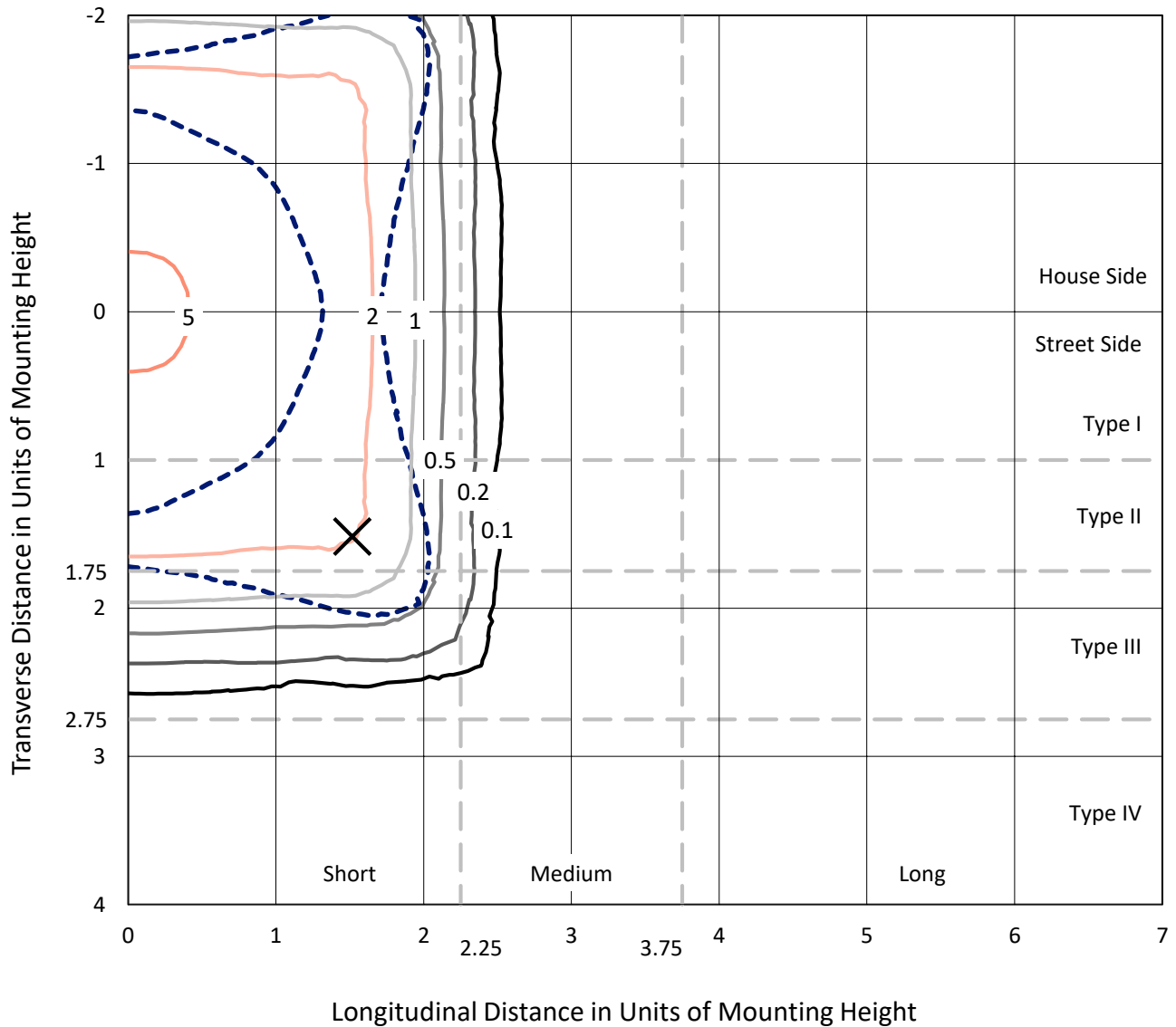
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

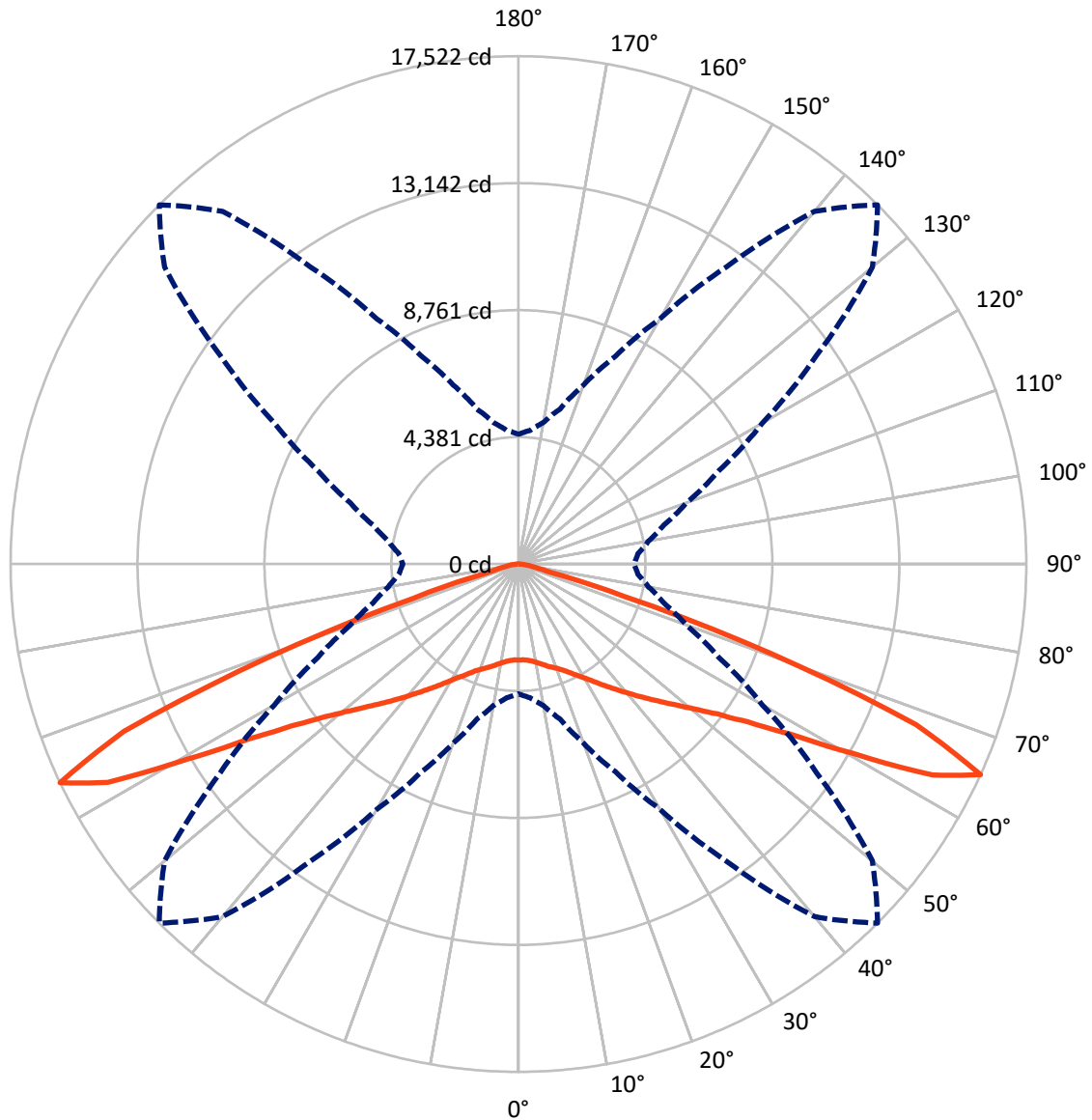
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	14635.4	0.0	14635.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14635.4	0.0	14635.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	29270.7	0.0	29270.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.1
10°-20°	1035.3	3.5
20°-30°	1935.9	6.6
30°-40°	3274.1	11.2
40°-50°	5353.5	18.3
50°-60°	8512.8	29.1
60°-70°	7695.0	26.3
70°-80°	973.9	3.3
80°-90°	167.5	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°	29270.7	100.0
0°-180°	29270.7	100.0



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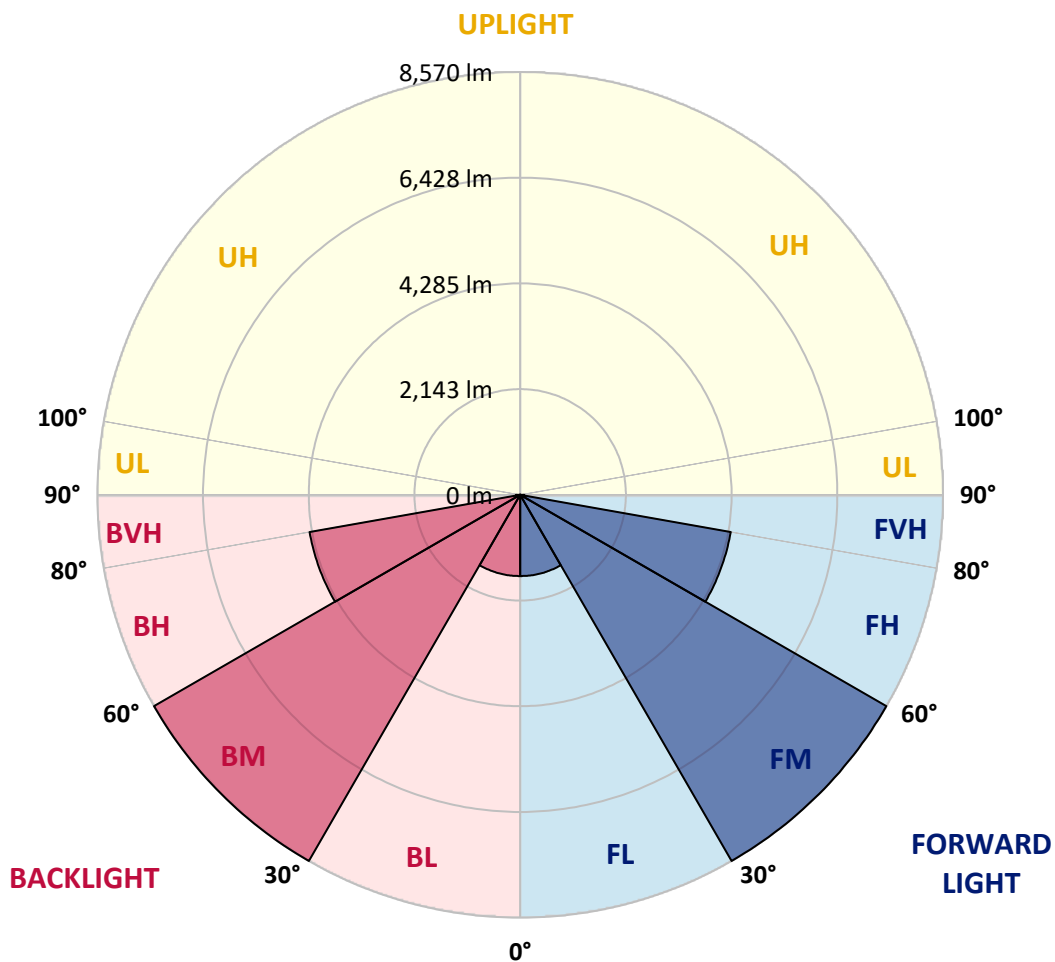
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.0	5.6			
FM	(30°-60°)	8570.2	29.3			
FH	(60°-80°)	4334.4	14.8			G2/5000
FVH	(80°-90°)	83.8	0.3			G1/100
BL	(0°-30°)	1647.0	5.6	B3/2500		
BM	(30°-60°)	8570.2	29.3	B5		
BH	(60°-80°)	4334.4	14.8	B4/5000		G2/5000
BVH	(80°-90°)	83.8	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°	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0
2.5°	3314.8	3317.4	3320.2	3317.4	3320.2	3316.1	3313.3	3317.4	3313.3	3309.2	3312.0
5°	3343.5	3344.9	3344.9	3340.8	3344.9	3342.2	3338.1	3343.5	3339.4	3335.3	3338.1
7.5°	3391.5	3397.0	3392.9	3388.7	3391.5	3388.7	3386.1	3387.4	3386.1	3381.9	3383.3
10°	3455.9	3460.0	3457.3	3455.9	3458.7	3457.3	3454.6	3453.2	3454.6	3450.4	3450.4
12.5°	3534.1	3532.7	3531.3	3532.7	3536.9	3536.9	3535.4	3536.9	3539.5	3540.9	3538.2
15°	3610.8	3613.6	3613.6	3613.6	3621.9	3628.7	3632.8	3635.6	3641.0	3642.4	3636.9
17.5°	3706.8	3706.8	3705.4	3706.8	3715.1	3726.0	3730.1	3735.6	3741.0	3745.2	3738.4
20°	3813.8	3816.4	3816.4	3819.2	3830.1	3842.5	3842.5	3845.3	3842.5	3845.3	3841.2
22.5°	3944.0	3952.2	3952.2	3953.6	3964.5	3979.6	3975.5	3979.6	3972.7	3978.3	3972.7
25°	4113.9	4126.3	4123.5	4123.5	4131.8	4141.4	4142.7	4150.9	4149.6	4156.5	4152.4
27.5°	4305.9	4325.0	4330.6	4329.1	4334.7	4344.3	4347.0	4356.5	4351.1	4356.5	4353.9
30°	4536.2	4544.4	4555.4	4559.5	4566.4	4576.0	4576.0	4577.3	4570.4	4578.6	4582.8
32.5°	4774.7	4789.8	4800.7	4825.5	4837.7	4844.6	4843.3	4846.0	4839.2	4850.1	4858.3
35°	5090.0	5100.9	5118.7	5138.0	5154.4	5153.0	5148.9	5150.4	5150.4	5159.9	5168.2
37.5°	5469.7	5472.5	5495.8	5523.2	5531.4	5523.2	5498.6	5493.0	5480.7	5493.0	5506.7
40°	5871.4	5880.9	5927.6	5945.4	5949.5	5934.4	5898.8	5878.3	5850.9	5865.9	5885.1
42.5°	6292.3	6311.4	6354.0	6385.5	6399.2	6389.6	6340.2	6308.7	6273.0	6281.3	6300.5
45°	6758.3	6781.7	6842.0	6872.1	6898.2	6883.1	6835.2	6787.2	6730.9	6735.0	6765.2
47.5°	7279.2	7302.5	7380.7	7431.4	7445.1	7442.4	7389.0	7323.1	7246.4	7243.6	7269.7
50°	7863.2	7886.5	7983.9	8062.0	8101.8	8097.7	8034.6	7941.4	7848.2	7849.5	7882.4
52.5°	8433.5	8462.4	8563.7	8698.2	8776.2	8832.5	8794.1	8706.3	8592.6	8595.2	8625.4
55°	8968.2	9016.2	9132.7	9315.0	9460.4	9618.0	9663.2	9660.4	9591.9	9611.1	9641.2
57.5°	9227.2	9298.5	9478.2	9766.0	10062.2	10382.8	10654.3	10857.2	10943.5	11073.9	11043.7
60°	8736.5	8850.3	9114.8	9538.4	10123.8	10792.7	11509.7	12210.2	12808.0	13259.0	12999.9
62.5°	7153.2	7301.2	7622.0	8164.9	9050.5	10121.1	11493.3	13149.3	14953.3	16041.8	15264.5
65°	4475.8	4629.4	4955.7	5536.9	6573.3	7904.3	9766.0	12510.5	15881.4	17522.3	15940.3
67.5°	1745.2	1828.7	2005.6	2377.0	3155.7	4340.2	6208.6	9323.2	13354.9	14793.0	13106.8
70°	874.6	882.8	915.7	984.3	1151.5	1495.7	2275.7	4322.3	7659.0	9250.5	7383.5
72.5°	632.0	633.3	649.8	680.0	733.5	810.2	958.2	1322.9	2490.9	3806.9	2334.6
75°	484.0	489.4	499.0	515.5	544.2	582.6	636.1	762.2	944.5	1095.3	921.2
77.5°	372.9	383.8	390.7	405.8	423.6	449.7	464.7	512.7	596.3	627.9	618.3
80°	283.8	293.4	308.4	320.8	333.1	345.5	339.9	361.9	405.8	431.8	418.1
82.5°	181.0	191.9	235.8	246.7	252.3	260.4	250.8	252.3	271.4	287.9	271.4
85°	116.5	123.4	149.5	163.2	164.5	170.0	165.9	156.3	156.3	142.6	160.4
87.5°	53.5	54.8	67.2	79.5	82.2	74.1	72.6	69.9	56.2	53.5	57.6
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°	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0	3312.0
2.5°	3310.6	3313.3	3314.8	3318.9	3320.2	3320.2	3321.6	3324.4
5°	3336.7	3340.8	3342.2	3347.6	3349.0	3347.6	3350.4	3351.8
7.5°	3383.3	3390.2	3392.9	3398.3	3394.3	3399.8	3401.1	3401.1
10°	3451.8	3458.7	3460.0	3465.6	3462.8	3465.6	3465.6	3462.8
12.5°	3542.3	3543.7	3539.5	3543.7	3538.2	3540.9	3536.9	3534.1
15°	3642.4	3638.2	3628.7	3628.7	3620.4	3621.9	3620.4	3619.1
17.5°	3739.7	3731.5	3724.7	3721.9	3715.1	3713.6	3709.5	3709.5
20°	3846.6	3842.5	3838.4	3832.9	3826.0	3819.2	3817.9	3820.6
22.5°	3975.5	3974.2	3974.2	3971.4	3961.8	3954.9	3950.8	3950.8
25°	4148.3	4135.9	4135.9	4134.6	4130.4	4126.3	4118.1	4122.2
27.5°	4342.8	4336.0	4341.5	4340.2	4336.0	4336.0	4330.6	4330.6
30°	4582.8	4580.1	4588.2	4581.4	4567.7	4566.4	4560.8	4554.0
32.5°	4859.7	4857.0	4869.2	4861.1	4839.2	4826.8	4815.8	4810.3
35°	5168.2	5169.5	5184.6	5179.1	5154.4	5146.2	5127.0	5124.3
37.5°	5505.4	5527.3	5553.4	5558.8	5538.3	5532.8	5512.3	5501.2
40°	5901.5	5930.4	5970.0	5979.7	5957.8	5953.7	5924.8	5909.8
42.5°	6323.8	6373.1	6422.5	6430.7	6408.8	6386.8	6359.4	6348.4
45°	6795.4	6854.3	6918.7	6935.2	6902.3	6876.3	6840.6	6840.6
47.5°	7324.5	7398.5	7471.2	7516.4	7486.3	7458.8	7416.4	7389.0
50°	7949.7	8051.0	8145.7	8192.3	8144.3	8092.2	8018.2	7993.4
52.5°	8733.7	8843.4	8925.7	8901.0	8826.9	8754.3	8673.4	8640.6
55°	9734.5	9771.5	9771.5	9678.2	9530.2	9408.2	9280.7	9238.3
57.5°	10986.1	10843.5	10624.2	10345.9	9996.3	9691.9	9486.3	9389.1
60°	12457.0	11771.6	10997.0	10236.3	9611.1	9095.7	8789.9	8650.2
62.5°	13437.2	11644.0	10092.2	8870.8	7971.5	7350.5	6928.3	6763.9
65°	12558.5	9711.2	7633.0	6171.6	5191.5	4559.5	4141.4	3987.9
67.5°	9198.5	6085.2	4064.6	2913.1	2134.4	1702.6	1531.3	1460.0
70°	4129.0	2142.7	1313.3	1025.4	884.2	811.5	780.0	769.1
72.5°	1244.7	900.6	759.4	685.5	629.2	593.6	567.5	564.8
75°	751.3	625.1	555.2	511.4	475.7	446.9	433.2	429.1
77.5°	525.1	459.2	426.4	394.8	367.3	345.5	333.1	323.6
80°	368.8	337.3	322.1	304.3	286.5	266.0	248.2	239.9
82.5°	246.7	239.9	239.9	228.9	213.9	194.7	159.1	150.8
85°	159.1	157.6	160.4	156.3	145.4	124.7	102.8	97.3
87.5°	74.1	75.4	83.6	82.2	79.5	65.8	52.1	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)