

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: P191687

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191687
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-09-LED-E1-5WQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45286 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 374
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

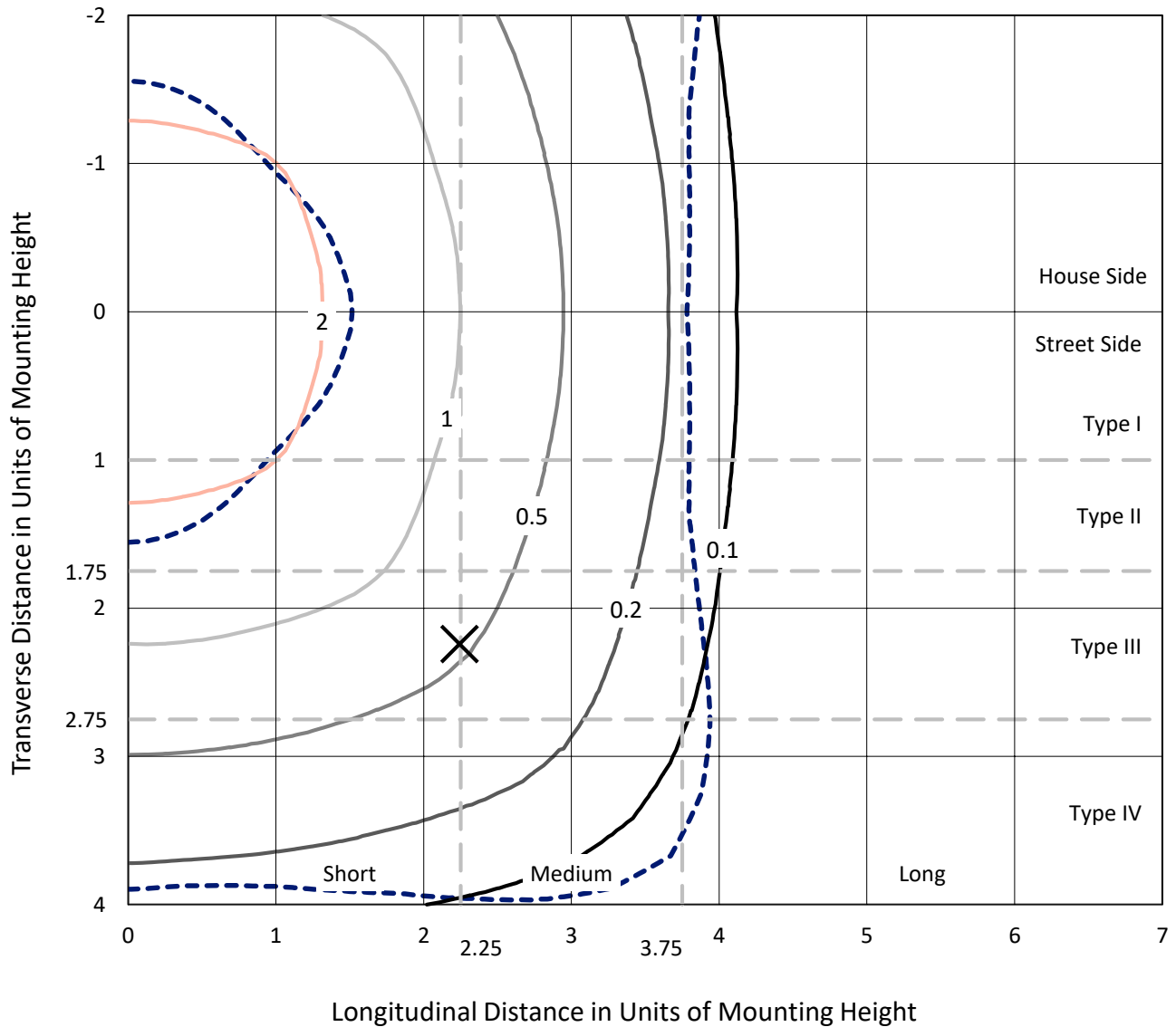


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

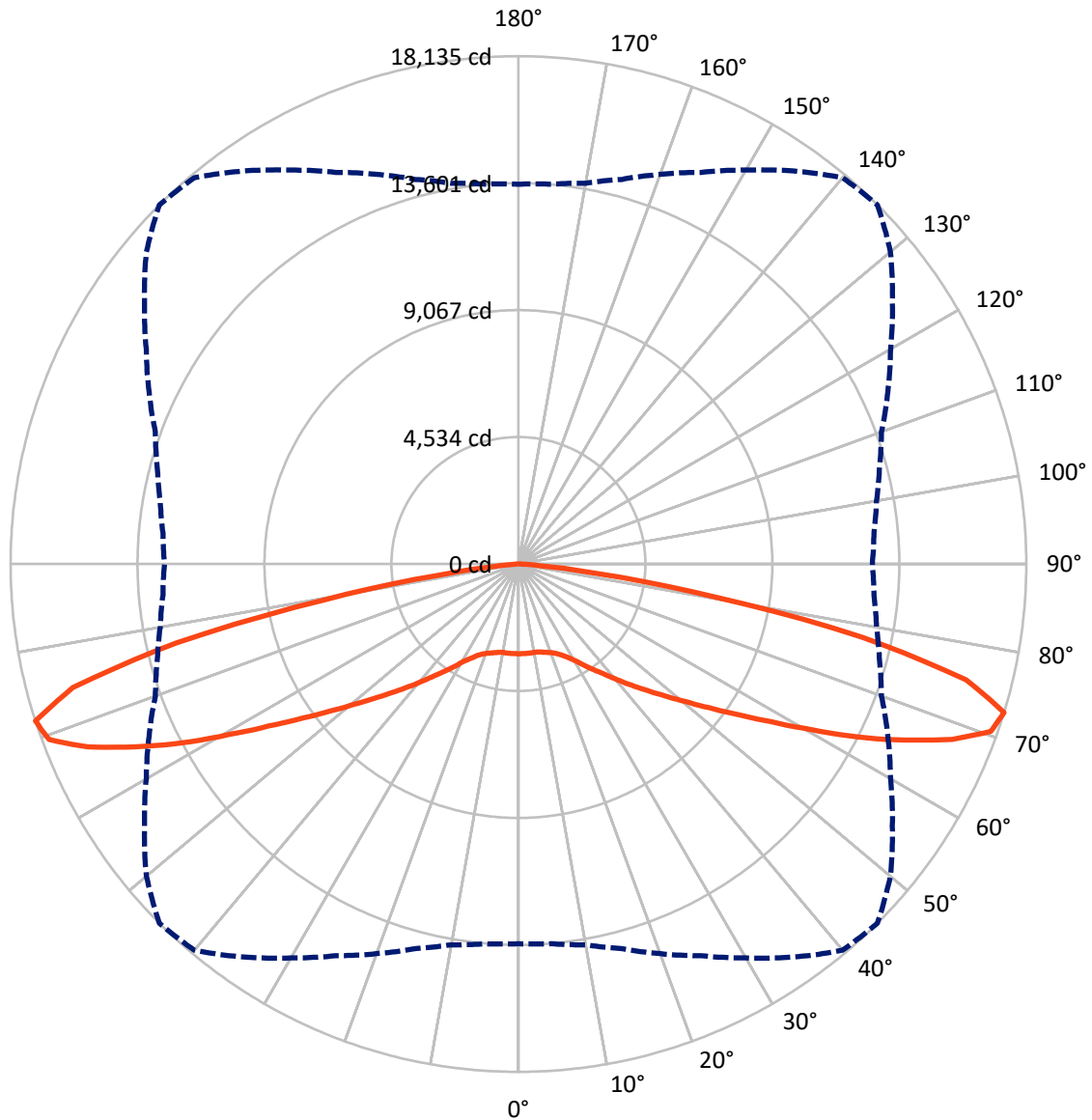


Based on 30 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Semi-Cutoff

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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	22643.0	0.0	22643.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22643.0	0.0	22643.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45286.0	0.0	45286.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	0.7
10°-20°	930.0	2.1
20°-30°	1699.6	3.8
30°-40°	2930.4	6.5
40°-50°	5009.4	11.1
50°-60°	8119.6	17.9
60°-70°	13470.2	29.7
70°-80°	11864.0	26.2
80°-90°	956.6	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°	45286.0	100.0
0°-180°	45286.0	100.0



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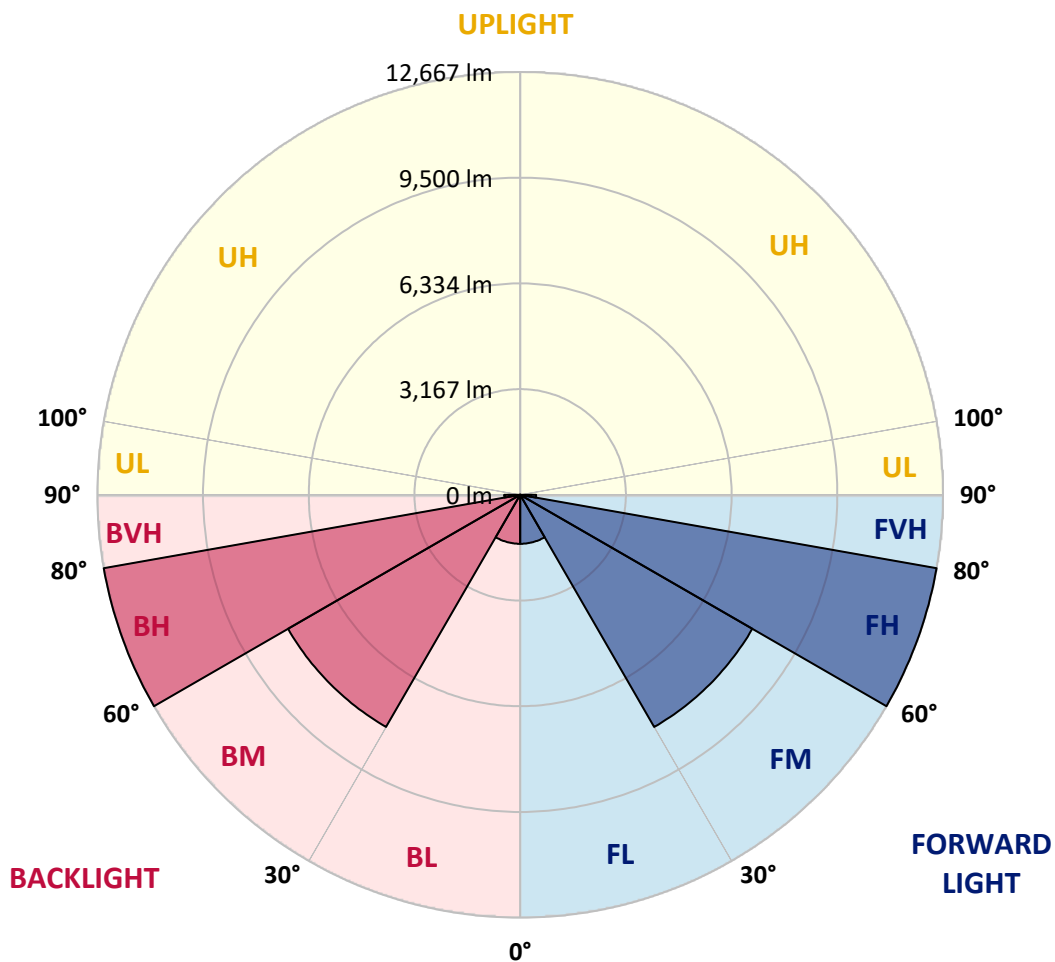
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.9	3.2			
FM	(30°-60°)	8029.7	17.7			
FH	(60°-80°)	12667.1	28.0			G5
FVH	(80°-90°)	478.3	1.1			G3/500
BL	(0°-30°)	1467.9	3.2	B3/2500		
BM	(30°-60°)	8029.7	17.7	B4/8500		
BH	(60°-80°)	12667.1	28.0	B5		G5
BVH	(80°-90°)	478.3	1.1			G3/500
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°	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0
2.5°	3207.0	3209.0	3211.1	3209.0	3209.0	3207.0	3204.9	3207.0	3204.9	3200.7	3202.8
5°	3217.3	3221.5	3221.5	3217.3	3219.4	3217.3	3213.2	3215.3	3211.1	3204.9	3204.9
7.5°	3229.8	3231.9	3231.9	3227.7	3229.8	3225.6	3221.5	3219.4	3215.3	3207.0	3200.7
10°	3248.5	3250.6	3248.5	3244.3	3244.3	3238.1	3227.7	3223.6	3215.3	3202.8	3196.6
12.5°	3269.3	3271.3	3269.3	3265.1	3263.0	3252.6	3244.3	3238.1	3231.9	3221.5	3211.1
15°	3298.3	3302.5	3298.3	3290.0	3283.8	3275.5	3271.3	3273.4	3275.5	3267.2	3256.8
17.5°	3352.3	3354.4	3348.2	3329.5	3321.2	3312.9	3312.9	3317.0	3323.3	3319.1	3308.7
20°	3452.0	3445.8	3431.3	3408.4	3398.0	3383.5	3381.4	3383.5	3383.5	3381.4	3373.1
22.5°	3576.7	3572.5	3553.8	3524.7	3510.2	3501.9	3489.4	3479.0	3477.0	3470.7	3462.4
25°	3726.2	3724.1	3701.3	3676.4	3666.0	3655.6	3645.2	3630.7	3618.2	3603.7	3595.4
27.5°	3917.3	3909.0	3875.8	3863.3	3848.8	3842.5	3828.0	3811.4	3801.0	3782.3	3771.9
30°	4127.1	4127.1	4100.1	4095.9	4095.9	4081.4	4064.8	4035.7	4017.0	3998.3	3992.1
32.5°	4336.9	4338.9	4311.9	4320.2	4326.5	4336.9	4341.0	4330.6	4318.2	4316.1	4303.6
35°	4640.1	4631.8	4604.8	4611.0	4609.0	4606.9	4606.9	4629.7	4633.9	4638.0	4613.1
37.5°	5016.1	5016.1	4989.1	4989.1	4976.6	4964.1	4947.5	4962.1	4984.9	4991.1	4974.5
40°	5446.0	5460.5	5427.3	5425.2	5429.4	5389.9	5371.2	5394.1	5408.6	5433.5	5414.8
42.5°	5952.8	5942.4	5909.2	5905.0	5882.2	5869.7	5853.1	5871.8	5894.6	5911.3	5917.5
45°	6438.8	6430.5	6393.1	6393.1	6370.3	6359.9	6368.2	6399.4	6409.8	6432.6	6455.4
47.5°	6918.6	6908.2	6883.3	6893.7	6895.8	6914.5	6941.5	6970.6	6999.6	7030.8	7041.2
50°	7408.8	7410.9	7383.9	7408.8	7440.0	7491.9	7564.6	7612.4	7672.6	7712.1	7724.5
52.5°	7855.4	7863.7	7892.8	7950.9	8013.2	8115.0	8239.6	8355.9	8455.6	8522.1	8517.9
55°	8391.2	8403.7	8474.3	8574.0	8675.8	8829.5	9014.4	9220.0	9386.2	9481.7	9421.5
57.5°	9076.7	9103.7	9182.6	9317.6	9469.2	9668.6	9922.0	10231.5	10489.1	10617.8	10520.2
60°	10017.6	10034.2	10129.7	10279.3	10462.1	10709.2	11047.8	11463.2	11826.7	11997.0	11884.8
62.5°	11257.6	11288.7	11365.6	11517.2	11704.1	11984.5	12397.9	12917.1	13369.9	13606.7	13353.3
65°	12738.5	12838.2	12902.6	13056.3	13230.8	13527.8	13959.8	14516.4	15002.5	15158.2	14865.4
67.5°	14204.9	14292.1	14404.3	14580.8	14757.4	15091.8	15492.7	16032.7	16566.5	16707.7	16252.9
70°	14846.7	14896.5	15071.0	15312.0	15650.5	16045.1	16508.3	17114.8	17775.3	17891.6	17314.2
72.5°	13561.0	13610.9	13806.1	14215.3	14805.2	15432.4	16240.4	17131.4	18003.8	18134.7	17339.1
75°	10256.4	10175.4	10464.1	11006.2	11801.8	12676.2	13806.1	15083.5	16344.2	16508.3	15559.1
77.5°	5300.6	5290.2	5508.3	6181.3	7130.5	8125.4	9369.5	10813.1	12046.8	12545.3	11772.7
80°	1493.4	1510.0	1613.9	1948.3	2502.8	3221.5	4193.5	5545.7	6555.1	7070.2	6638.2
82.5°	585.7	631.4	670.9	733.2	805.9	911.8	1217.1	1811.2	2430.1	2903.7	2378.2
85°	209.8	224.3	317.8	375.9	382.2	402.9	459.0	535.9	646.0	770.6	633.5
87.5°	78.9	87.2	101.8	168.2	166.2	151.6	184.9	193.2	145.4	132.9	164.1
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°	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0	3207.0
2.5°	3198.6	3200.7	3200.7	3202.8	3204.9	3204.9	3209.0	3209.0
5°	3200.7	3200.7	3196.6	3198.6	3196.6	3196.6	3198.6	3198.6
7.5°	3196.6	3194.5	3190.3	3188.3	3184.1	3184.1	3184.1	3184.1
10°	3190.3	3188.3	3184.1	3182.0	3180.0	3180.0	3180.0	3180.0
12.5°	3207.0	3200.7	3196.6	3194.5	3194.5	3194.5	3194.5	3194.5
15°	3250.6	3236.0	3225.6	3225.6	3227.7	3231.9	3231.9	3236.0
17.5°	3304.6	3288.0	3277.6	3269.3	3273.4	3279.6	3283.8	3288.0
20°	3369.0	3360.7	3346.1	3337.8	3337.8	3346.1	3350.3	3352.3
22.5°	3458.3	3452.0	3445.8	3435.4	3435.4	3439.6	3447.9	3447.9
25°	3591.2	3587.1	3582.9	3574.6	3572.5	3572.5	3576.7	3580.8
27.5°	3757.4	3759.4	3755.3	3753.2	3747.0	3744.9	3751.1	3749.1
30°	3979.6	3990.0	4000.4	3992.1	3981.7	3975.5	3969.2	3960.9
32.5°	4280.8	4268.3	4260.0	4245.5	4226.8	4210.2	4197.7	4183.2
35°	4565.3	4544.6	4536.3	4548.7	4546.6	4536.3	4521.7	4509.3
37.5°	4914.3	4910.1	4914.3	4937.1	4933.0	4943.4	4914.3	4912.2
40°	5354.6	5358.8	5387.8	5414.8	5429.4	5443.9	5427.3	5410.7
42.5°	5865.6	5863.5	5873.9	5911.3	5936.2	5952.8	5917.5	5913.3
45°	6405.6	6391.1	6399.4	6430.5	6455.4	6474.1	6434.7	6434.7
47.5°	6999.6	6974.7	6947.7	6983.0	6997.6	7010.0	6978.9	6968.5
50°	7662.2	7610.3	7552.1	7566.7	7566.7	7562.5	7523.0	7521.0
52.5°	8422.4	8326.9	8220.9	8181.5	8158.6	8133.7	8065.2	8031.9
55°	9296.8	9153.5	8987.4	8885.6	8831.6	8763.0	8648.8	8617.6
57.5°	10318.7	10094.4	9807.8	9683.2	9562.7	9450.5	9323.8	9288.5
60°	11529.7	11199.4	10819.3	10588.8	10457.9	10349.9	10219.0	10212.8
62.5°	12879.7	12358.4	11928.5	11720.7	11625.2	11529.7	11405.0	11421.7
65°	14252.7	13708.5	13305.5	13137.3	13048.0	12969.0	12844.4	12863.1
67.5°	15606.9	15106.3	14663.9	14491.5	14391.8	14292.1	14180.0	14198.7
70°	16578.9	15957.9	15459.4	15077.2	14838.4	14568.4	14393.9	14350.3
72.5°	16300.6	15343.1	14551.8	13793.6	13349.1	12987.7	12742.7	12636.7
75°	14107.3	12798.7	11781.0	10850.5	10327.1	9901.3	9591.8	9398.6
77.5°	10476.6	9006.1	7803.4	6731.7	5884.3	5315.1	4914.3	4654.7
80°	5734.7	4361.8	3188.3	2241.1	1647.1	1368.8	1208.8	1132.0
82.5°	1786.3	1152.8	849.5	733.2	681.3	652.2	604.4	527.6
85°	569.1	498.5	463.2	442.4	421.6	367.6	253.4	230.6
87.5°	220.2	226.4	224.3	211.9	216.0	155.8	124.6	110.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)