

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: P193447

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193447
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 50173 lumens
Efficiency: N/A
Efficacy: 87.3 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): 575
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

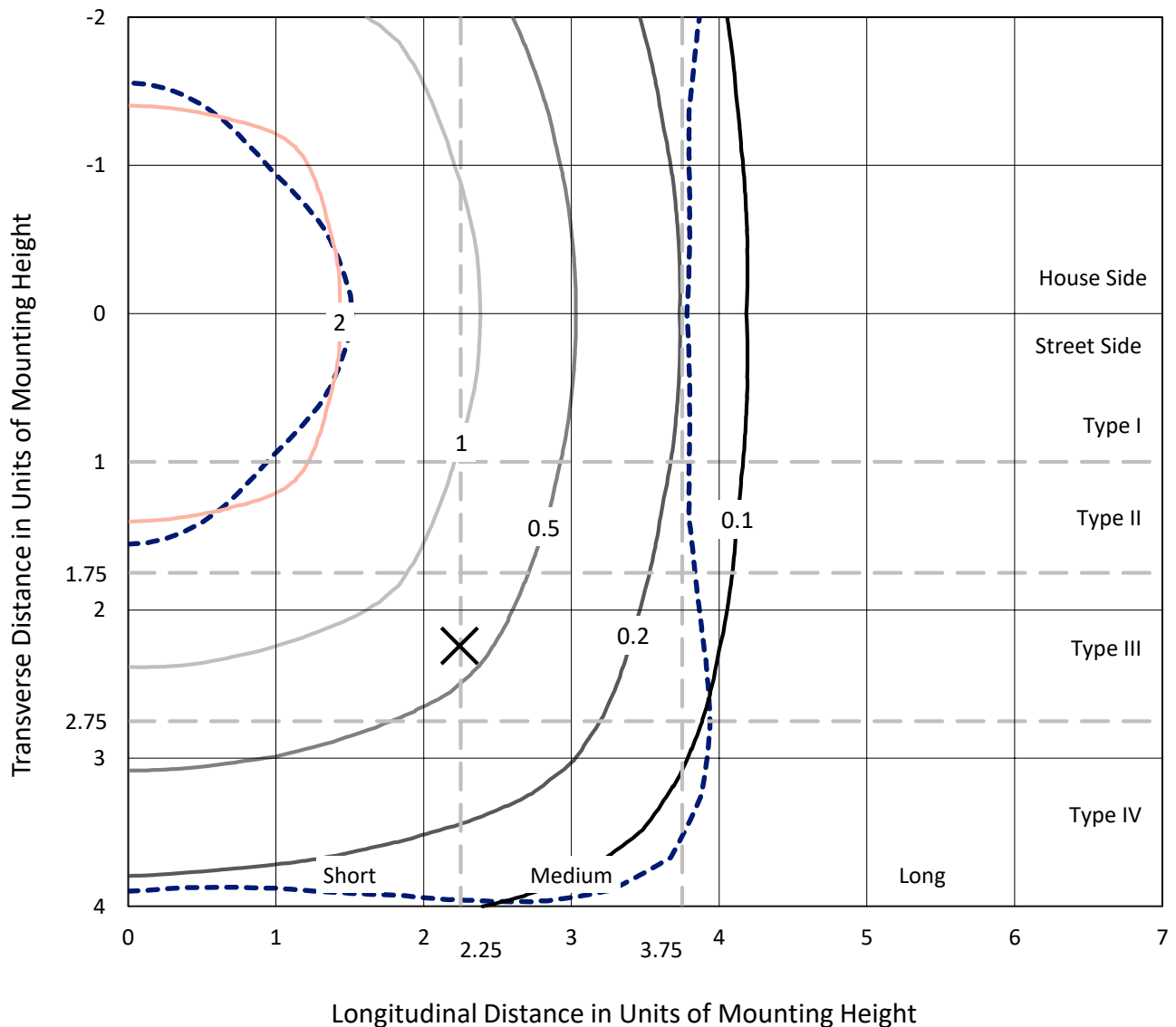


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

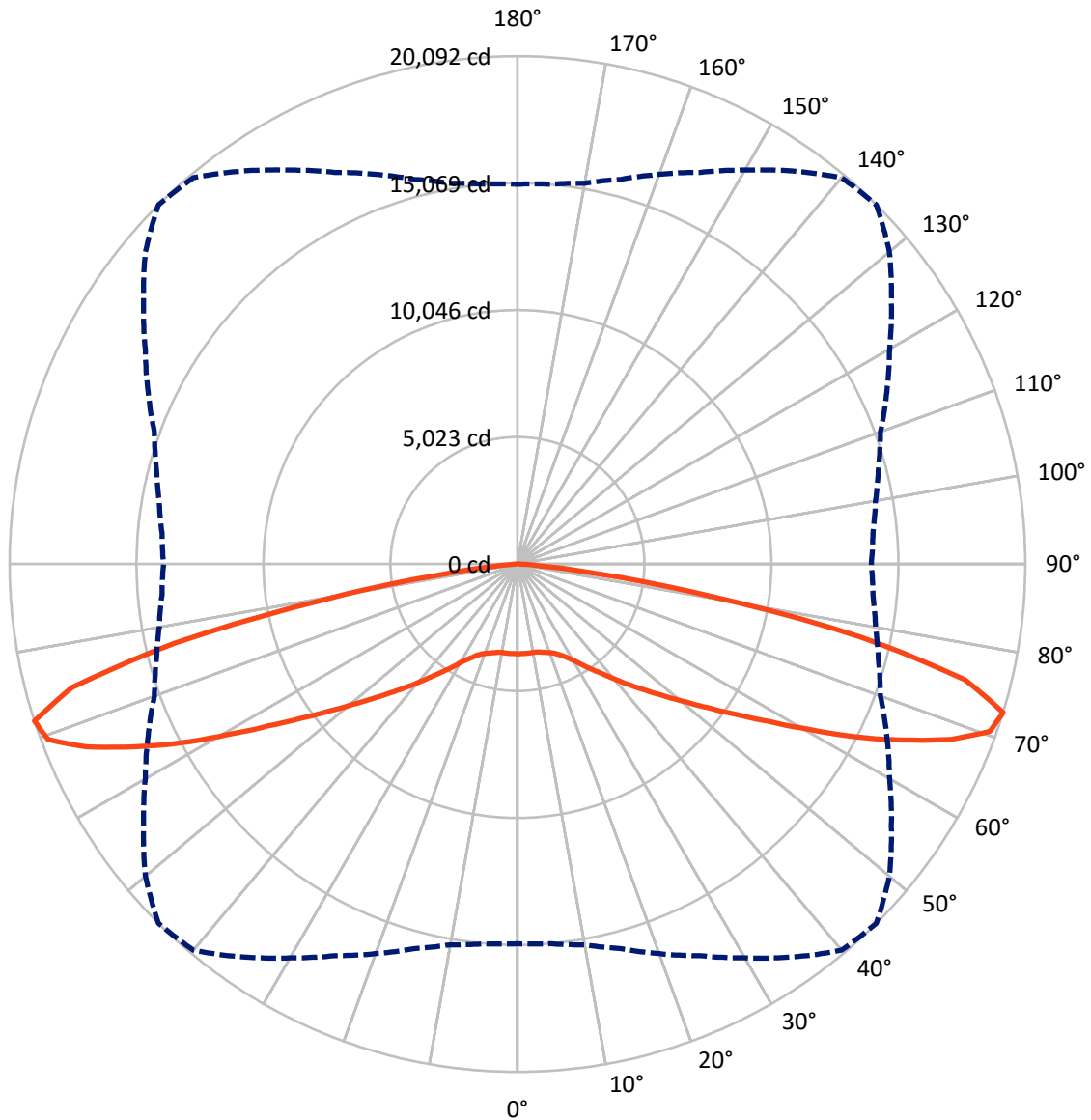


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Semi-Cutoff

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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	25086.5	0.0	25086.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25086.5	0.0	25086.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50173.0	0.0	50173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.3	0.7
10°-20°	1030.4	2.1
20°-30°	1883.0	3.8
30°-40°	3246.6	6.5
40°-50°	5550.0	11.1
50°-60°	8995.8	17.9
60°-70°	14923.8	29.7
70°-80°	13144.3	26.2
80°-90°	1059.8	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°	50173.0	100.0
0°-180°	50173.0	100.0



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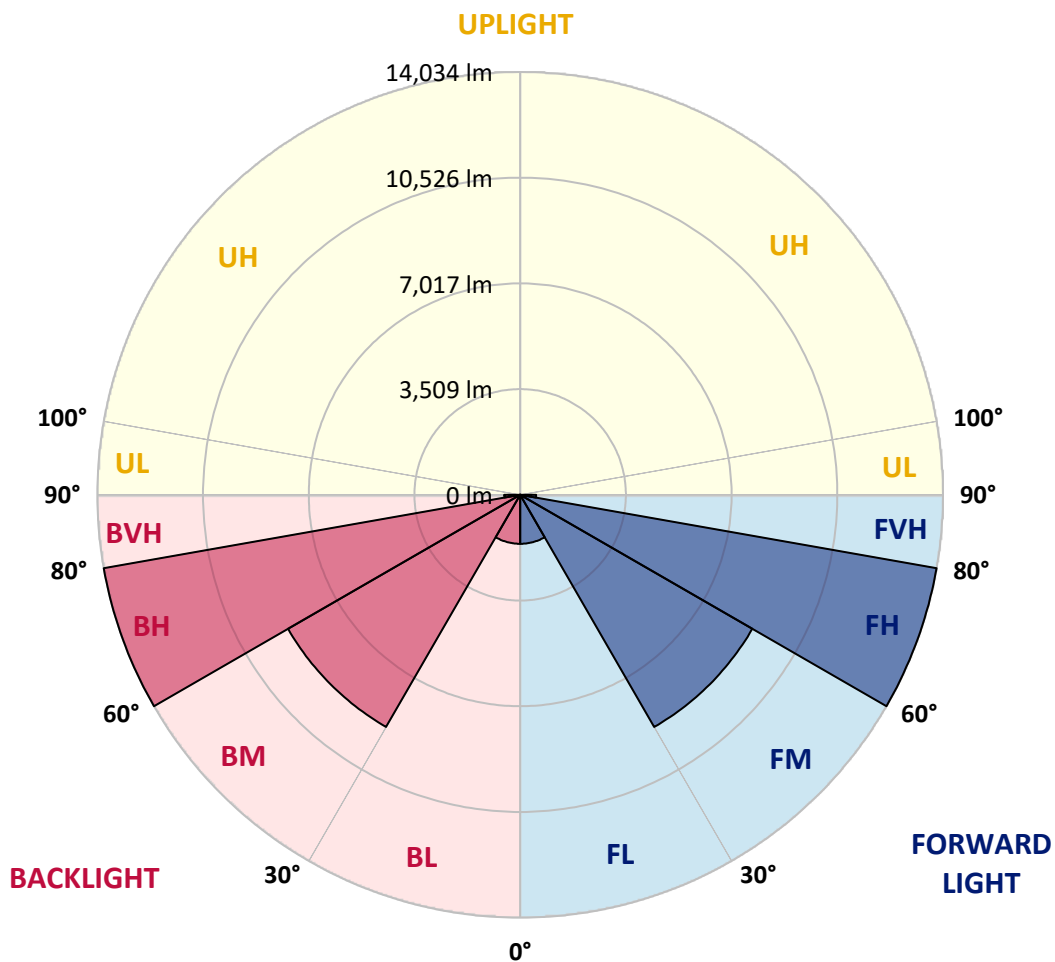
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1626.3	3.2			
FM	(30°-60°)	8896.2	17.7			
FH	(60°-80°)	14034.1	28.0			G5
FVH	(80°-90°)	529.9	1.1			G4/750
BL	(0°-30°)	1626.3	3.2	B3/2500		
BM	(30°-60°)	8896.2	17.7	B5		
BH	(60°-80°)	14034.1	28.0	B5		G5
BVH	(80°-90°)	529.9	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°	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0
2.5°	3553.0	3555.3	3557.6	3555.3	3555.3	3553.0	3550.7	3553.0	3550.7	3546.1	3548.4
5°	3564.5	3569.1	3569.1	3564.5	3566.8	3564.5	3559.9	3562.2	3557.6	3550.7	3550.7
7.5°	3578.3	3580.6	3580.6	3576.0	3578.3	3573.7	3569.1	3566.8	3562.2	3553.0	3546.1
10°	3599.1	3601.4	3599.1	3594.4	3594.4	3587.5	3576.0	3571.4	3562.2	3548.4	3541.5
12.5°	3622.1	3624.4	3622.1	3617.5	3615.2	3603.7	3594.4	3587.5	3580.6	3569.1	3557.6
15°	3654.3	3658.9	3654.3	3645.1	3638.2	3629.0	3624.4	3626.7	3629.0	3619.8	3608.3
17.5°	3714.1	3716.4	3709.5	3688.8	3679.6	3670.4	3670.4	3675.0	3681.9	3677.3	3665.8
20°	3824.6	3817.7	3801.6	3776.2	3764.7	3748.6	3746.3	3748.6	3748.6	3746.3	3737.1
22.5°	3962.6	3958.0	3937.3	3905.1	3889.0	3879.8	3866.0	3854.5	3852.2	3845.3	3836.1
25°	4128.3	4126.0	4100.7	4073.1	4061.6	4050.1	4038.6	4022.5	4008.7	3992.6	3983.3
27.5°	4340.0	4330.8	4294.0	4280.2	4264.1	4257.2	4241.1	4222.7	4211.2	4190.5	4178.9
30°	4572.5	4572.5	4542.5	4537.9	4537.9	4521.8	4503.4	4471.2	4450.5	4429.8	4422.9
32.5°	4804.9	4807.2	4777.3	4786.5	4793.4	4804.9	4809.5	4798.0	4784.2	4781.9	4768.1
35°	5140.8	5131.6	5101.7	5108.6	5106.3	5104.0	5104.0	5129.3	5133.9	5138.5	5110.9
37.5°	5557.4	5557.4	5527.4	5527.4	5513.6	5499.8	5481.4	5497.5	5522.8	5529.7	5511.3
40°	6033.7	6049.8	6013.0	6010.7	6015.3	5971.6	5950.9	5976.2	5992.3	6019.9	5999.2
42.5°	6595.2	6583.7	6546.9	6542.3	6517.0	6503.1	6484.7	6505.4	6530.8	6549.2	6556.1
45°	7133.7	7124.5	7083.0	7083.0	7057.7	7046.2	7055.4	7089.9	7101.5	7126.8	7152.1
47.5°	7665.2	7653.7	7626.1	7637.6	7639.9	7660.6	7690.6	7722.8	7755.0	7789.5	7801.0
50°	8208.3	8210.6	8180.7	8208.3	8242.8	8300.4	8380.9	8433.8	8500.6	8544.3	8558.1
52.5°	8703.1	8712.3	8744.5	8808.9	8878.0	8990.7	9128.8	9257.7	9368.1	9441.8	9437.2
55°	9296.8	9310.6	9388.8	9499.3	9612.0	9782.3	9987.1	10215.0	10399.0	10504.9	10438.2
57.5°	10056.2	10086.1	10173.5	10323.1	10491.1	10712.0	10992.8	11335.6	11621.0	11763.7	11655.5
60°	11098.6	11117.0	11222.9	11388.6	11591.1	11864.9	12240.0	12700.2	13102.9	13291.6	13167.4
62.5°	12472.4	12506.9	12592.1	12760.1	12967.2	13277.8	13735.8	14311.1	14812.7	15075.1	14794.3
65°	14113.2	14223.6	14295.0	14465.2	14658.5	14987.6	15466.3	16083.0	16621.5	16794.0	16469.6
67.5°	15737.8	15834.4	15958.7	16154.3	16349.9	16720.4	17164.5	17762.8	18354.2	18510.7	18006.8
70°	16448.9	16504.1	16697.4	16964.3	17339.4	17776.6	18289.8	18961.8	19693.5	19822.4	19182.7
72.5°	15024.4	15079.7	15296.0	15749.3	16402.8	17097.8	17993.0	18980.2	19946.7	20091.6	19210.3
75°	11363.2	11273.5	11593.4	12194.0	13075.3	14044.1	15296.0	16711.2	18108.0	18289.8	17238.2
77.5°	5872.6	5861.1	6102.7	6848.3	7900.0	9002.2	10380.6	11980.0	13346.9	13899.2	13043.1
80°	1654.6	1673.0	1788.0	2158.5	2772.9	3569.1	4646.1	6144.2	7262.5	7833.2	7354.6
82.5°	648.9	699.6	743.3	812.3	892.9	1010.2	1348.5	2006.6	2692.4	3217.1	2634.9
85°	232.4	248.5	352.1	416.5	423.4	446.4	508.6	593.7	715.7	853.7	701.9
87.5°	87.4	96.6	112.8	186.4	184.1	168.0	204.8	214.0	161.1	147.3	181.8
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°	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0	3553.0
2.5°	3543.8	3546.1	3546.1	3548.4	3550.7	3550.7	3555.3	3555.3
5°	3546.1	3546.1	3541.5	3543.8	3541.5	3541.5	3543.8	3543.8
7.5°	3541.5	3539.2	3534.6	3532.3	3527.7	3527.7	3527.7	3527.7
10°	3534.6	3532.3	3527.7	3525.4	3523.1	3523.1	3523.1	3523.1
12.5°	3553.0	3546.1	3541.5	3539.2	3539.2	3539.2	3539.2	3539.2
15°	3601.4	3585.2	3573.7	3573.7	3576.0	3580.6	3580.6	3585.2
17.5°	3661.2	3642.8	3631.3	3622.1	3626.7	3633.6	3638.2	3642.8
20°	3732.5	3723.3	3707.2	3698.0	3698.0	3707.2	3711.8	3714.1
22.5°	3831.5	3824.6	3817.7	3806.2	3806.2	3810.8	3820.0	3820.0
25°	3978.7	3974.1	3969.5	3960.3	3958.0	3958.0	3962.6	3967.2
27.5°	4162.8	4165.1	4160.5	4158.2	4151.3	4149.0	4155.9	4153.6
30°	4409.1	4420.6	4432.1	4422.9	4411.4	4404.5	4397.6	4388.4
32.5°	4742.7	4728.9	4719.7	4703.6	4682.9	4664.5	4650.7	4634.6
35°	5058.0	5035.0	5025.8	5039.6	5037.3	5025.8	5009.7	4995.9
37.5°	5444.6	5440.0	5444.6	5469.9	5465.3	5476.8	5444.6	5442.3
40°	5932.5	5937.1	5969.3	5999.2	6015.3	6031.4	6013.0	5994.6
42.5°	6498.5	6496.2	6507.7	6549.2	6576.8	6595.2	6556.1	6551.5
45°	7096.9	7080.7	7089.9	7124.5	7152.1	7172.8	7129.1	7129.1
47.5°	7755.0	7727.4	7697.5	7736.6	7752.7	7766.5	7732.0	7720.5
50°	8489.1	8431.5	8367.1	8383.2	8383.2	8378.6	8334.9	8332.6
52.5°	9331.3	9225.4	9108.1	9064.4	9039.1	9011.4	8935.5	8898.7
55°	10300.1	10141.3	9957.2	9844.5	9784.6	9708.7	9582.1	9547.6
57.5°	11432.3	11183.8	10866.2	10728.1	10594.7	10470.4	10330.0	10290.9
60°	12773.9	12408.0	11986.9	11731.4	11586.5	11466.8	11321.8	11314.9
62.5°	14269.6	13692.0	13215.7	12985.6	12879.7	12773.9	12635.8	12654.2
65°	15790.7	15187.8	14741.4	14555.0	14456.0	14368.6	14230.5	14251.2
67.5°	17291.1	16736.5	16246.4	16055.4	15944.9	15834.4	15710.2	15730.9
70°	18368.0	17680.0	17127.7	16704.3	16439.7	16140.5	15947.2	15898.9
72.5°	18059.7	16998.8	16122.1	15282.2	14789.7	14389.3	14117.8	14000.4
75°	15629.6	14179.9	13052.3	12021.4	11441.5	10969.7	10626.9	10412.9
77.5°	11607.2	9977.9	8645.5	7458.1	6519.3	5888.7	5444.6	5157.0
80°	6353.6	4832.5	3532.3	2483.0	1824.8	1516.5	1339.3	1254.1
82.5°	1979.0	1277.2	941.2	812.3	754.8	722.6	669.6	584.5
85°	630.5	552.3	513.2	490.2	467.1	407.3	280.7	255.4
87.5°	243.9	250.8	248.5	234.7	239.3	172.6	138.1	122.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)