

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: P191953

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19603 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3

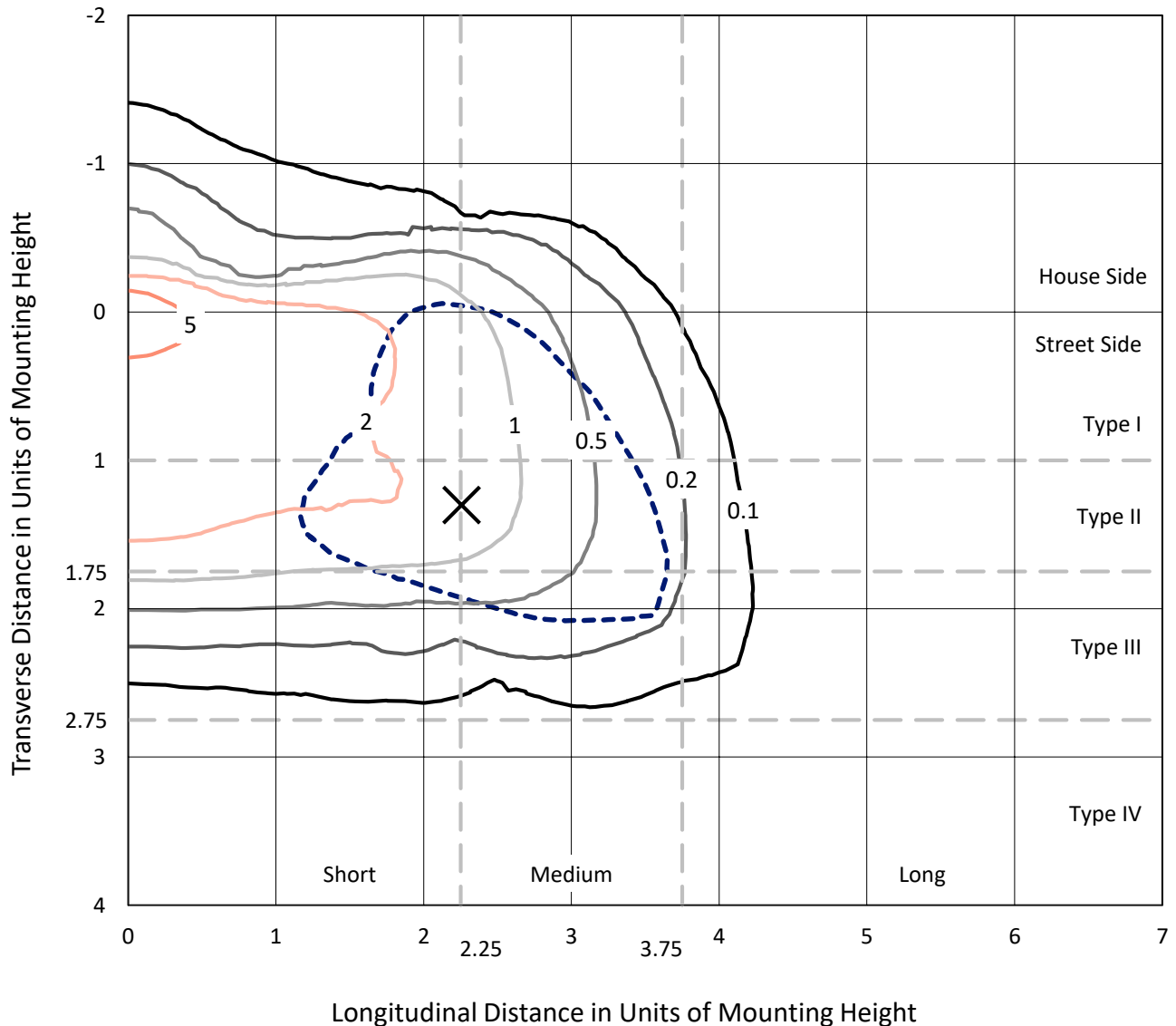
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

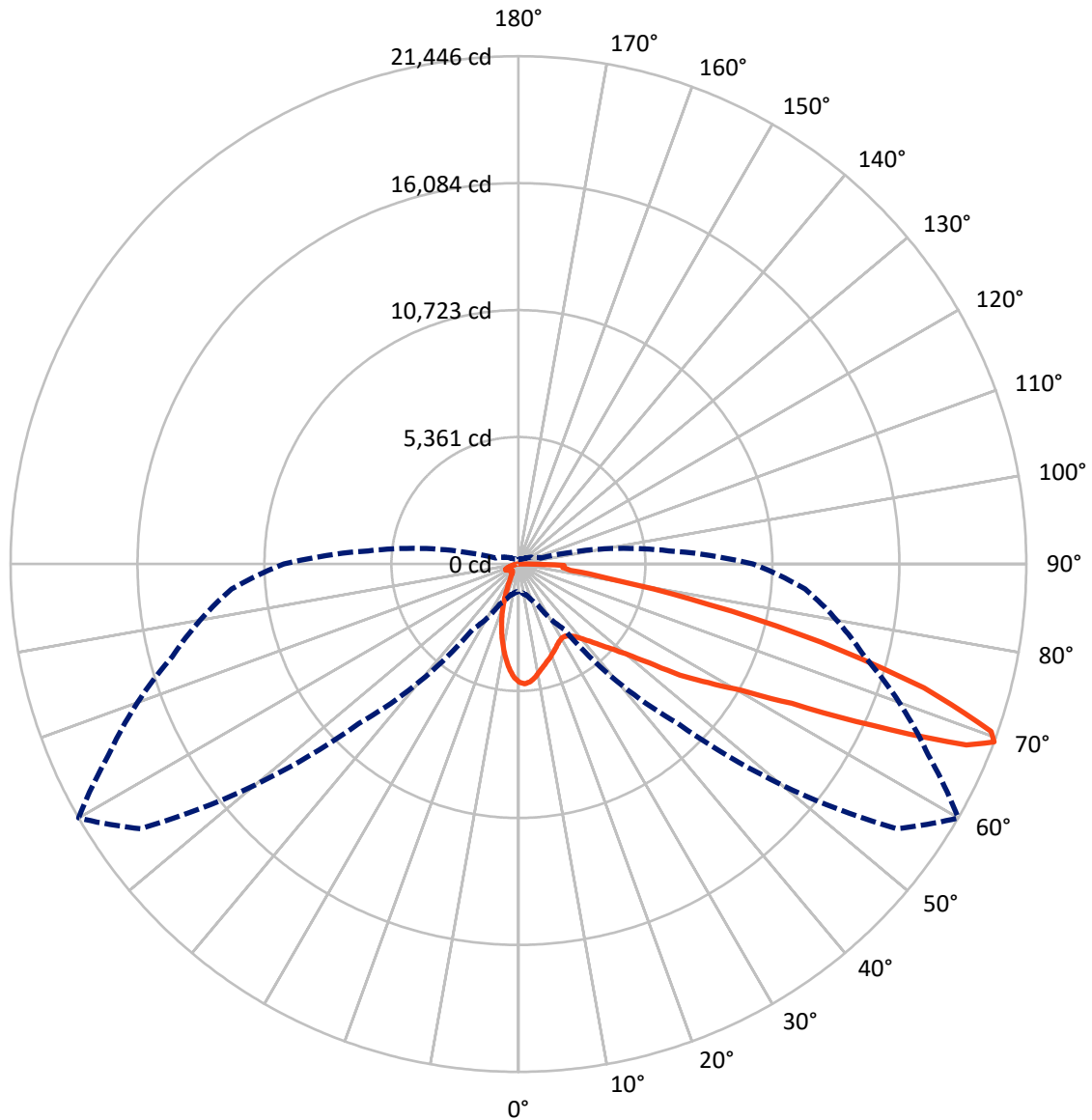
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2788.9	0.0	2788.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	16814.1	0.0	16814.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	19603.0	0.0	19603.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.4	2.2
10°-20°	899.9	4.6
20°-30°	1146.6	5.8
30°-40°	1576.3	8.0
40°-50°	2557.6	13.0
50°-60°	4101.8	20.9
60°-70°	5459.2	27.8
70°-80°	2947.5	15.0
80°-90°	491.8	2.5
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°	19603.0	100.0
0°-180°	19603.0	100.0

**Coefficient of Utilization**



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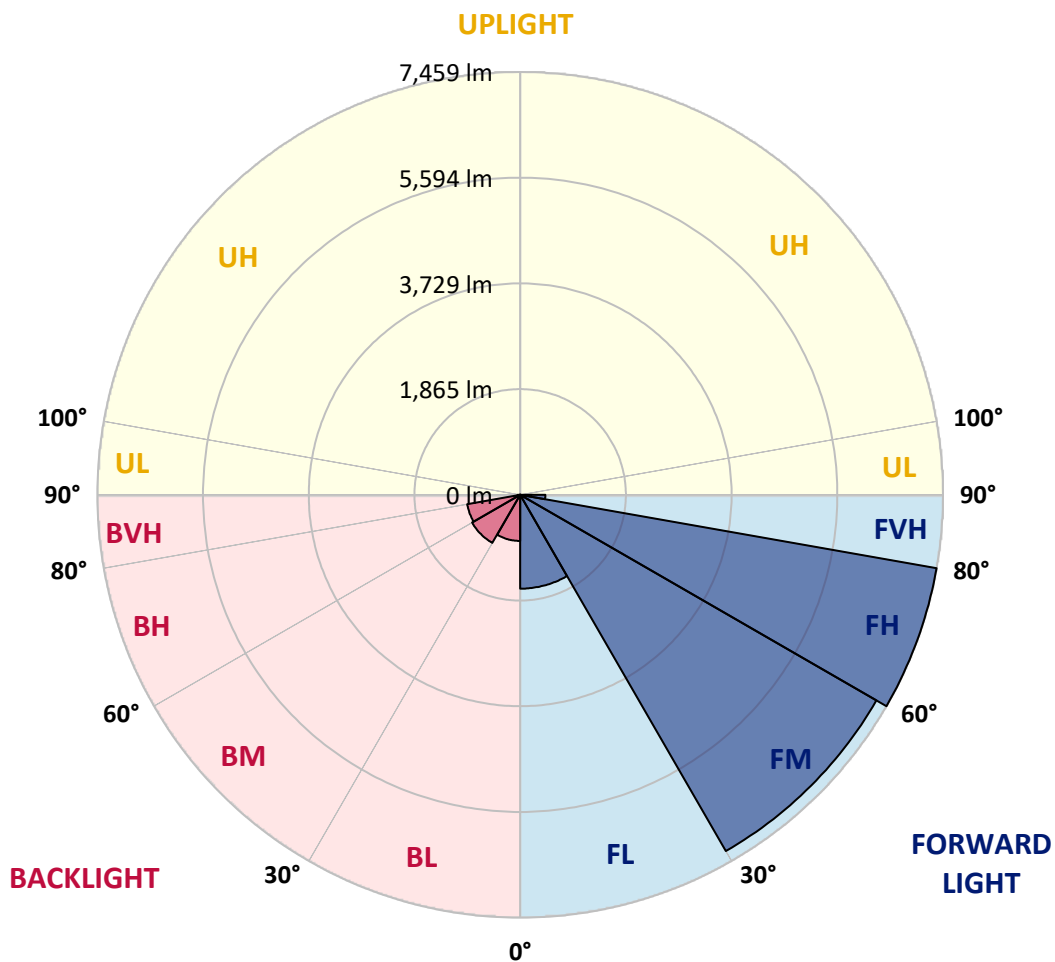
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.2	8.4			
FM (30°-60°)	7255.9	37.0			
FH (60°-80°)	7458.6	38.0			G3/7500
FVH (80°-90°)	444.5	2.3			G3/500
BL (0°-30°)	813.6	4.2	B2/1000		
BM (30°-60°)	979.8	5.0	B1/1000		
BH (60°-80°)	948.1	4.8	B2/1000		G2/1000
BVH (80°-90°)	47.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1
2.5°	5097.4	5108.8	5104.0	5101.2	5109.7	5096.5	5069.0	5060.5	5047.2	5016.0	4962.9
5°	4906.1	4940.2	4938.3	4963.9	5006.5	5017.9	5005.6	5007.5	4982.8	4944.0	4855.9
7.5°	4575.6	4589.8	4597.4	4653.3	4730.9	4793.4	4846.5	4863.5	4852.2	4819.0	4705.4
10°	4234.7	4246.1	4264.1	4329.4	4427.9	4514.1	4614.5	4672.2	4696.9	4691.2	4564.3
12.5°	3942.1	3953.5	3977.2	4051.0	4168.5	4274.5	4420.3	4492.3	4551.0	4586.1	4449.7
15°	3679.8	3704.5	3727.2	3812.4	3944.0	4083.2	4248.0	4338.9	4429.8	4508.4	4348.4
17.5°	3475.3	3499.9	3513.2	3590.8	3731.0	3901.4	4094.6	4201.6	4315.2	4444.0	4248.0
20°	3356.9	3368.3	3362.6	3406.2	3532.1	3713.0	3942.1	4066.2	4203.5	4383.4	4147.6
22.5°	3323.8	3324.7	3303.9	3299.2	3380.6	3533.1	3779.3	3929.8	4098.4	4343.6	4061.5
25°	3404.3	3401.4	3344.6	3298.2	3306.7	3395.7	3622.1	3797.3	4010.3	4335.1	3995.2
27.5°	3583.2	3591.8	3507.5	3420.4	3334.2	3331.4	3502.8	3687.4	3938.3	4373.9	3966.8
30°	3834.2	3848.4	3758.4	3647.6	3485.7	3352.2	3456.4	3622.1	3893.8	4454.4	3962.0
32.5°	4108.8	4124.0	4055.8	3939.3	3727.2	3481.0	3488.6	3627.8	3891.9	4567.1	3994.2
35°	4401.4	4418.5	4383.4	4284.9	4049.1	3718.7	3611.7	3719.6	3953.5	4739.5	4080.4
37.5°	4728.1	4754.6	4764.1	4670.3	4418.5	4032.1	3813.4	3893.8	4092.7	4979.0	4238.5
40°	5198.7	5235.7	5232.8	5098.4	4841.7	4455.4	4124.9	4145.7	4309.6	5299.1	4491.4
42.5°	6100.2	6107.8	5872.0	5579.4	5307.6	4900.4	4492.3	4475.3	4608.8	5704.4	4863.5
45°	7247.0	7215.7	6691.1	6125.8	5794.4	5411.8	4970.5	4887.2	4988.5	6198.7	5329.4
47.5°	8198.7	8126.7	7463.8	6683.5	6309.5	5967.7	5532.1	5386.2	5442.1	6759.3	5931.7
50°	8529.1	8475.2	7925.9	7147.6	6797.2	6645.7	6223.3	6016.9	6032.0	7427.8	6637.1
52.5°	8458.1	8450.5	8084.1	7453.4	7253.6	7357.8	7202.5	6923.1	6775.4	8170.3	7398.5
55°	8290.5	8306.6	8174.0	7809.5	7775.4	8045.3	8481.8	8275.4	7816.1	8919.3	8185.4
57.5°	7708.1	7749.8	8041.5	8257.4	8615.3	9016.8	9512.1	9453.4	8936.3	9728.9	9121.0
60°	6210.1	6306.7	7088.8	8170.3	9479.9	10735.5	10957.1	10820.8	10091.6	10733.6	10356.8
62.5°	4351.2	4451.6	5381.5	7073.7	9337.8	12676.8	13540.4	12952.3	11750.7	12213.7	11956.1
65°	2329.5	2377.8	3088.0	4908.0	7883.3	13077.3	17315.9	16421.0	14377.5	14038.5	13324.5
67.5°	1285.0	1311.5	1583.3	2478.2	5049.1	11515.8	19721.1	20397.2	17660.5	15253.4	13075.4
69°	1161.9	1186.5	1364.5	1876.8	3378.7	9521.5	19486.3	21445.5	19099.9	15133.1	12155.0
70°	1136.3	1159.1	1319.1	1730.1	2734.8	7848.3	18699.3	21177.5	19442.7	14702.3	11352.0
72.5°	1022.7	1047.3	1202.6	1553.9	2337.1	3912.8	14812.1	17905.8	17652.0	12747.8	8610.6
75°	953.6	976.3	1239.6	1521.7	2237.6	2476.3	9764.9	13196.6	12976.0	8917.4	4642.9
77.5°	408.1	406.2	574.8	1287.8	2270.8	2397.7	5247.0	8244.1	7521.6	3811.5	1333.3
80°	272.7	268.0	272.7	378.8	2082.3	2410.9	2749.0	4184.6	3160.9	971.6	657.2
82.5°	234.8	231.1	239.6	231.1	732.0	2751.8	2337.1	2225.3	1502.8	552.1	325.7
85°	158.1	151.5	206.4	207.4	345.6	2445.0	2632.5	1879.7	1215.9	327.6	161.0
87.5°	75.8	73.9	120.3	146.8	202.6	993.3	2953.5	1926.1	1226.3	167.6	76.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1	4995.1
2.5°	4946.8	4908.0	4870.1	4824.7	4777.3	4724.3	4697.8	4671.3	4664.7	4657.1	4630.6
5°	4810.5	4755.6	4660.9	4556.7	4446.9	4339.9	4258.4	4207.3	4168.5	4148.6	4113.5
7.5°	4634.4	4553.9	4388.1	4208.2	4023.6	3855.0	3709.2	3617.3	3530.2	3489.5	3443.1
10°	4466.7	4346.5	4088.9	3823.8	3558.6	3303.9	3064.3	2894.8	2744.3	2660.0	2600.3
12.5°	4322.8	4158.0	3801.0	3442.2	3078.5	2715.8	2356.9	2074.8	1839.0	1714.9	1651.5
15°	4182.7	3983.8	3527.4	3071.9	2605.0	2111.7	1640.1	1320.0	1125.0	1047.3	1020.8
17.5°	4055.8	3801.0	3252.8	2698.8	2116.4	1519.8	1102.2	926.1	851.3	825.7	817.2
20°	3918.5	3616.4	2967.7	2308.7	1607.0	1062.5	860.8	783.1	752.8	745.2	741.5
22.5°	3785.9	3434.6	2695.0	1891.1	1154.3	820.1	739.6	707.4	702.6	709.3	709.3
25°	3673.2	3271.7	2400.5	1454.5	847.5	690.3	661.9	654.3	672.3	697.0	701.7
27.5°	3588.9	3138.2	2087.1	1073.8	675.2	600.4	599.4	611.7	656.2	703.6	713.1
30°	3531.2	3011.3	1751.9	774.6	566.3	528.4	543.5	570.1	635.4	702.6	720.6
32.5°	3501.8	2917.5	1402.4	599.4	484.8	464.0	489.6	521.8	586.2	648.7	672.3
35°	3524.5	2848.4	1072.9	500.0	428.0	411.9	438.4	469.7	507.6	534.1	552.1
37.5°	3609.8	2821.0	809.6	447.9	389.2	374.0	394.9	412.9	428.0	435.6	444.1
40°	3793.5	2850.3	648.7	421.4	367.4	348.5	357.0	363.6	373.1	380.7	384.5
42.5°	4064.3	2938.4	581.4	411.0	356.1	328.6	326.7	329.5	341.8	356.1	358.9
45°	4443.1	3093.7	576.7	417.6	350.4	312.5	304.0	307.8	326.7	348.5	352.3
47.5°	4927.0	3330.4	614.6	437.5	355.1	304.0	289.8	294.5	318.2	347.5	352.3
50°	5513.1	3660.9	678.0	466.8	375.9	305.9	285.0	287.9	312.5	344.7	349.4
52.5°	6205.3	4129.6	747.1	495.3	397.7	318.2	288.8	282.2	304.9	333.3	339.0
55°	6975.2	4730.9	818.2	520.8	409.1	333.3	296.4	274.6	290.7	314.4	319.1
57.5°	7920.3	5571.8	941.3	545.4	416.7	343.7	304.0	267.0	272.7	289.8	293.6
60°	9199.6	6761.2	1158.1	586.2	433.7	347.5	303.0	260.4	254.7	264.2	266.1
62.5°	10732.7	8052.8	1339.0	637.3	462.1	350.4	297.3	255.7	239.6	239.6	241.5
65°	11642.7	8398.5	1238.6	679.9	485.8	347.5	290.7	250.9	228.2	217.8	218.7
67.5°	10870.9	7386.2	1061.5	688.4	484.8	334.3	280.3	242.4	216.9	200.8	199.8
69°	9904.1	6372.9	982.0	665.7	462.1	317.2	267.0	232.9	208.3	191.3	190.3
70°	9124.8	5754.6	929.9	641.1	437.5	304.9	256.6	224.4	201.7	185.6	183.7
72.5°	6634.3	3770.7	794.5	551.1	360.8	255.7	221.6	197.0	179.9	170.5	168.6
75°	3315.3	1798.3	644.9	447.0	276.5	204.5	181.8	164.8	156.2	154.4	153.4
77.5°	1089.0	823.8	461.2	333.3	205.5	160.0	146.8	134.5	132.6	138.3	136.4
80°	598.5	479.2	292.6	220.6	140.1	117.4	115.5	108.9	111.7	121.2	119.3
82.5°	304.9	249.0	180.9	132.6	94.7	84.3	91.9	88.1	91.9	100.4	99.4
85°	150.6	136.4	114.6	80.5	62.5	54.0	65.3	68.2	70.1	76.7	76.7
87.5°	87.1	80.5	60.6	37.9	31.2	28.4	37.9	36.9	43.6	47.3	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)