

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: P299965

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299965  
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: GLNA-AF-06-LED-E1-SL3-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20308.2 lumens  
Efficiency: N/A  
Efficacy: 105.2 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 - G4

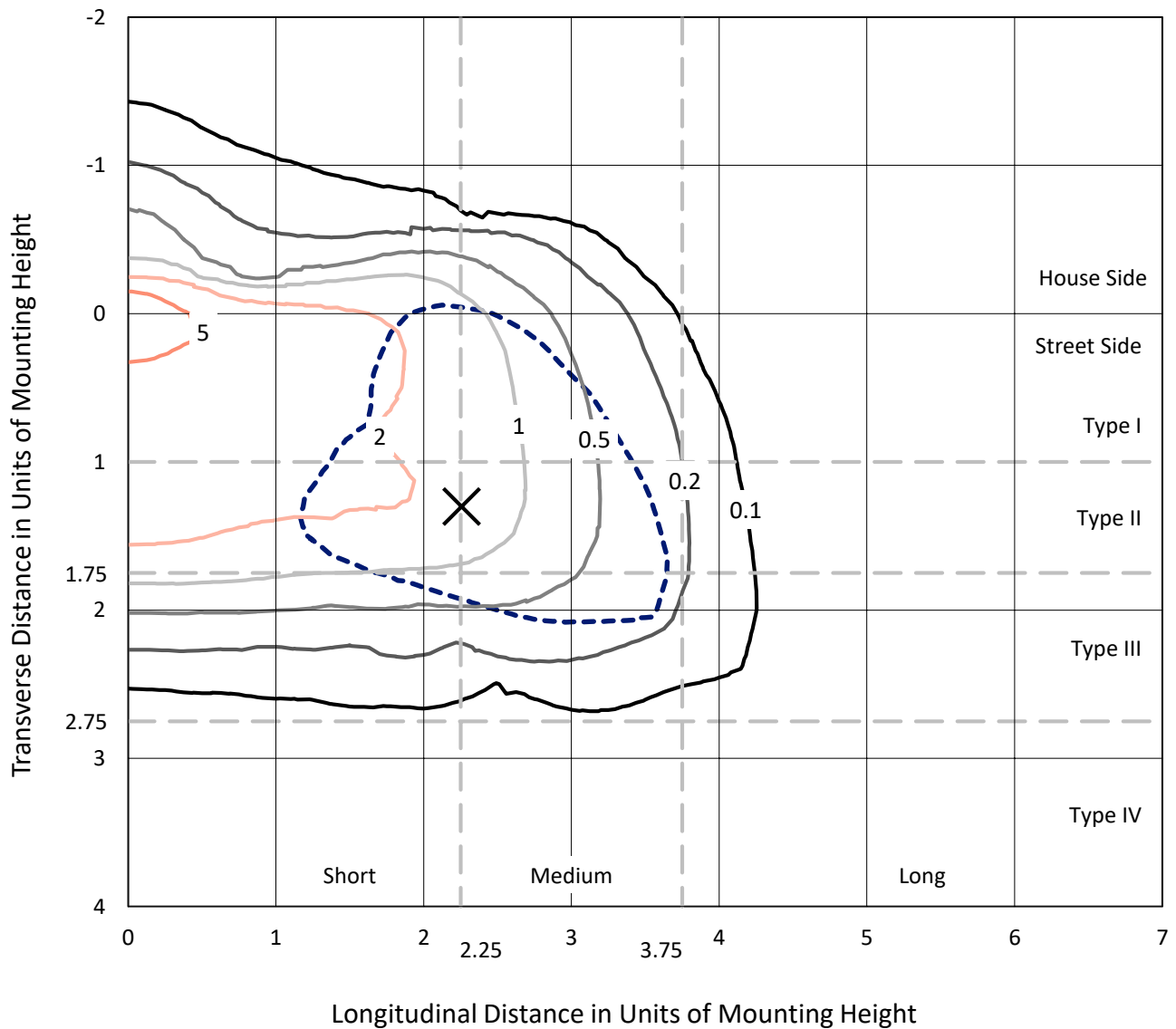
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

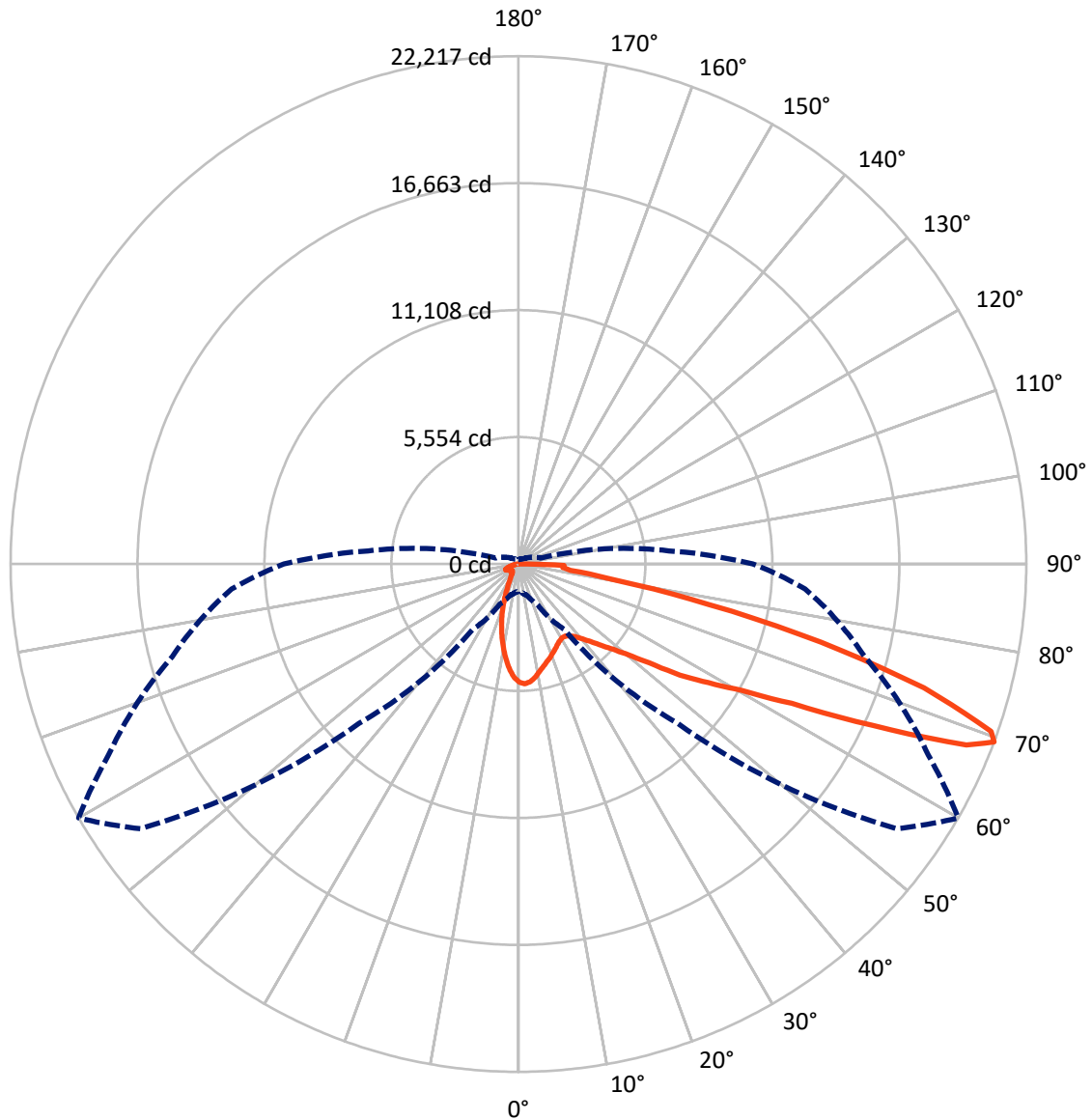
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	2889.2	0.0	2889.2
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	17419.0	0.0	17419.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	20308.2	0.0	20308.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.5	2.2
10°-20°	932.2	4.6
20°-30°	1187.8	5.8
30°-40°	1633.0	8.0
40°-50°	2649.6	13.0
50°-60°	4249.3	20.9
60°-70°	5655.5	27.8
70°-80°	3053.6	15.0
80°-90°	509.5	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°	20308.2	100.0
0°-180°	20308.2	100.0

**Coefficient of Utilization**



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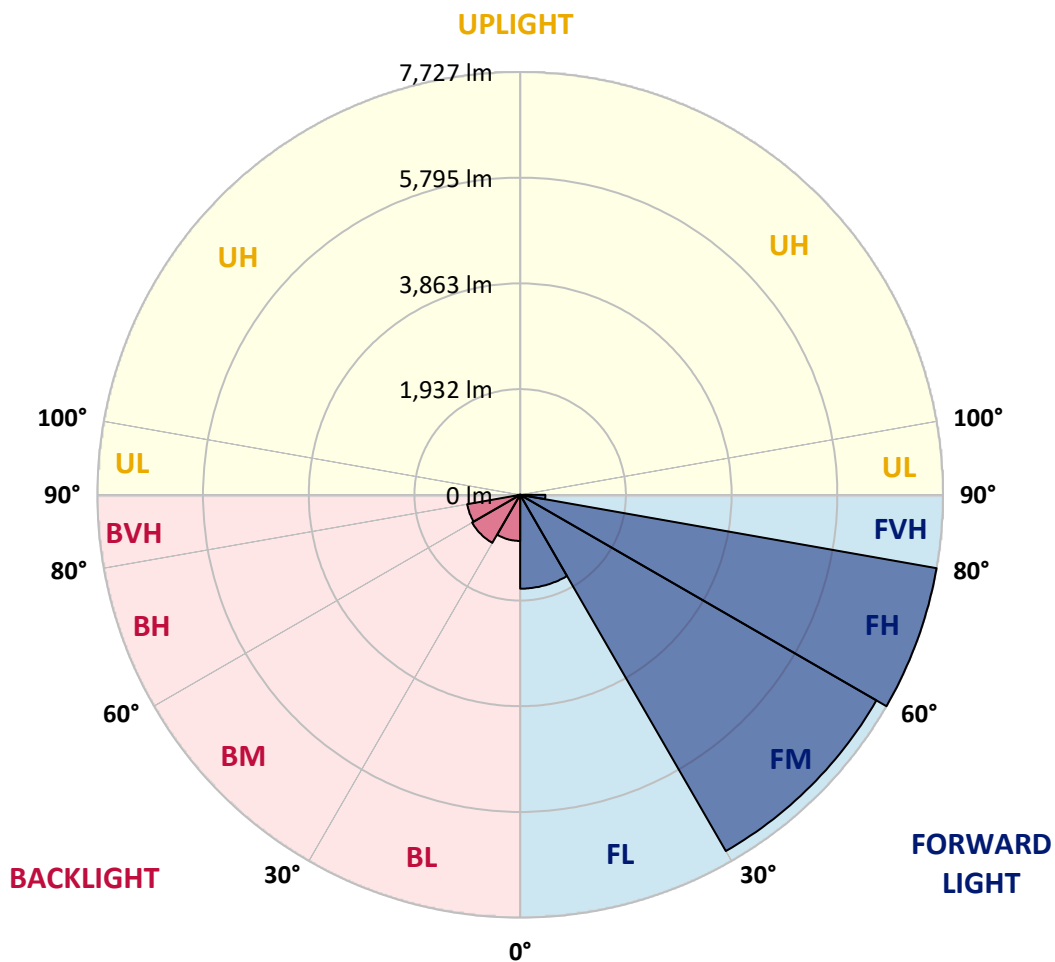
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.7	8.4			
FM	(30°-60°)	7516.9	37.0			
FH	(60°-80°)	7726.9	38.0			G4/12000
FVH	(80°-90°)	460.4	2.3			G3/500
BL	(0°-30°)	842.9	4.2	B2/1000		
BM	(30°-60°)	1015.0	5.0	B2/2500		
BH	(60°-80°)	982.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	49.1	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-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8
2.5°	5280.8	5292.5	5287.6	5284.7	5293.5	5279.8	5251.3	5242.5	5228.8	5196.4	5141.5
5°	5082.6	5117.9	5116.0	5142.5	5186.6	5198.4	5185.6	5187.6	5162.1	5121.9	5030.6
7.5°	4740.2	4755.0	4762.8	4820.7	4901.1	4965.9	5020.8	5038.5	5026.7	4992.4	4874.6
10°	4387.1	4398.8	4417.5	4485.2	4587.2	4676.5	4780.5	4840.3	4865.8	4859.9	4728.5
12.5°	4083.9	4095.7	4120.2	4196.8	4318.4	4428.3	4579.4	4653.9	4714.7	4751.0	4609.8
15°	3812.2	3837.7	3861.3	3949.5	4085.9	4230.1	4400.8	4495.0	4589.2	4670.6	4504.8
17.5°	3600.3	3625.8	3639.5	3720.0	3865.2	4041.8	4241.9	4352.7	4470.5	4603.9	4400.8
20°	3477.7	3489.5	3483.6	3528.7	3659.2	3846.5	4083.9	4212.5	4354.7	4541.1	4296.8
22.5°	3443.3	3444.3	3422.7	3417.8	3502.2	3660.1	3915.2	4071.2	4245.8	4499.9	4207.6
25°	3526.7	3523.8	3464.9	3416.9	3425.7	3517.9	3752.4	3933.8	4154.6	4491.1	4138.9
27.5°	3712.1	3721.0	3633.7	3543.4	3454.1	3451.2	3628.8	3820.1	4080.0	4531.3	4109.5
30°	3972.1	3986.8	3893.6	3778.9	3611.1	3472.8	3580.7	3752.4	4033.9	4614.7	4104.5
32.5°	4256.6	4272.3	4201.7	4081.0	3861.3	3606.2	3614.0	3758.2	4032.0	4731.4	4137.9
35°	4559.7	4577.4	4541.1	4439.1	4194.8	3852.4	3741.6	3853.4	4095.7	4910.0	4227.2
37.5°	4898.2	4925.7	4935.5	4838.3	4577.4	4177.1	3950.5	4033.9	4239.9	5158.2	4391.0
40°	5385.7	5424.0	5421.1	5281.8	5015.9	4615.7	4273.3	4294.9	4464.6	5489.7	4652.9
42.5°	6319.7	6327.5	6083.2	5780.1	5498.6	5076.7	4653.9	4636.3	4774.6	5909.6	5038.5
45°	7507.7	7475.3	6931.8	6346.2	6002.8	5606.5	5149.3	5063.0	5168.0	6421.7	5521.1
47.5°	8493.6	8419.0	7732.3	6924.0	6536.5	6182.3	5731.1	5580.0	5637.9	7002.4	6145.0
50°	8836.0	8780.0	8211.1	7404.7	7041.7	6884.7	6447.2	6233.3	6249.0	7695.0	6875.9
52.5°	8762.4	8754.5	8374.9	7721.5	7514.5	7622.4	7461.6	7172.2	7019.1	8464.2	7664.6
55°	8588.7	8605.4	8468.1	8090.4	8055.1	8334.7	8786.9	8573.0	8097.3	9240.1	8479.8
57.5°	7985.4	8028.6	8330.7	8554.4	8925.2	9341.2	9854.2	9793.4	9257.8	10078.9	9449.1
60°	6433.5	6533.5	7343.8	8464.2	9820.9	11121.7	11351.3	11210.0	10454.6	11119.7	10729.3
62.5°	4507.7	4611.7	5575.1	7328.1	9673.7	13132.8	14027.5	13418.3	12173.4	12653.1	12386.2
65°	2413.3	2463.3	3199.1	5084.6	8166.9	13547.7	17938.7	17011.7	14894.7	14543.5	13803.8
67.5°	1331.2	1358.7	1640.2	2567.3	5230.7	11930.1	20430.5	21131.0	18295.8	15802.1	13545.8
69°	1203.7	1229.2	1413.6	1944.4	3500.2	9864.1	20187.2	22216.9	19787.0	15677.5	12592.2
70°	1177.2	1200.8	1366.5	1792.3	2833.2	8130.6	19372.0	21939.3	20142.1	15231.2	11760.3
72.5°	1059.5	1085.0	1245.9	1609.8	2421.1	4053.5	15345.0	18549.9	18287.0	13206.4	8920.3
75°	987.9	1011.4	1284.1	1576.5	2318.1	2565.3	10116.2	13671.4	13442.8	9238.2	4809.9
77.5°	422.8	420.9	595.5	1334.2	2352.5	2483.9	5435.8	8540.7	7792.2	3948.6	1381.3
80°	282.5	277.6	282.5	392.4	2157.2	2497.7	2847.9	4335.1	3274.6	1006.5	680.8
82.5°	243.3	239.4	248.2	239.4	758.3	2850.8	2421.1	2305.4	1556.9	571.9	337.5
85°	163.8	157.0	213.9	214.8	358.1	2533.0	2727.2	1947.3	1259.6	339.4	166.8
87.5°	78.5	76.5	124.6	152.1	209.9	1029.1	3059.8	1995.4	1270.4	173.6	79.5
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°	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8	5174.8
2.5°	5124.8	5084.6	5045.3	4998.2	4949.2	4894.3	4866.8	4839.3	4832.5	4824.6	4797.1
5°	4983.5	4926.6	4828.5	4720.6	4606.8	4496.0	4411.6	4358.6	4318.4	4297.8	4261.5
7.5°	4801.1	4717.7	4546.0	4359.6	4168.3	3993.7	3842.6	3747.5	3657.2	3615.0	3567.0
10°	4627.4	4502.8	4236.0	3961.3	3686.6	3422.7	3174.5	2998.9	2843.0	2755.7	2693.9
12.5°	4478.3	4307.6	3937.8	3566.0	3189.3	2813.5	2441.7	2149.4	1905.1	1776.6	1710.9
15°	4333.1	4127.1	3654.3	3182.4	2698.8	2187.7	1699.1	1367.5	1165.4	1085.0	1057.5
17.5°	4201.7	3937.8	3369.8	2795.9	2192.6	1574.5	1141.9	959.4	881.9	855.4	846.6
20°	4059.4	3746.5	3074.5	2391.7	1664.8	1100.7	891.7	811.3	779.9	772.1	768.1
22.5°	3922.1	3558.1	2792.0	1959.1	1195.9	849.6	766.2	732.8	727.9	734.8	734.8
25°	3805.3	3389.4	2486.9	1506.8	878.0	715.2	685.7	677.9	696.5	722.0	726.9
27.5°	3718.0	3251.1	2162.1	1112.5	699.5	622.0	621.0	633.7	679.8	728.9	738.7
30°	3658.2	3119.6	1814.9	802.5	586.6	547.4	563.1	590.6	658.3	727.9	746.5
32.5°	3627.8	3022.5	1452.9	621.0	502.3	480.7	507.2	540.5	607.2	672.0	696.5
35°	3651.3	2950.9	1111.5	518.0	443.4	426.7	454.2	486.6	525.8	553.3	571.9
37.5°	3739.6	2922.4	838.8	464.0	403.2	387.5	409.1	427.7	443.4	451.3	460.1
40°	3929.9	2952.8	672.0	436.5	380.6	361.0	369.8	376.7	386.5	394.4	398.3
42.5°	4210.5	3044.1	602.3	425.8	368.9	340.4	338.4	341.4	354.1	368.9	371.8
45°	4602.9	3205.0	597.4	432.6	363.0	323.7	314.9	318.8	338.4	361.0	364.9
47.5°	5104.2	3450.2	636.7	453.2	367.9	314.9	300.2	305.1	329.6	360.0	364.9
50°	5711.4	3792.6	702.4	483.6	389.5	316.9	295.3	298.2	323.7	357.1	362.0
52.5°	6428.6	4278.2	774.0	513.1	412.0	329.6	299.2	292.3	315.9	345.3	351.2
55°	7226.1	4901.1	847.6	539.6	423.8	345.3	307.1	284.5	301.2	325.7	330.6
57.5°	8205.2	5772.3	975.1	565.1	431.6	356.1	314.9	276.6	282.5	300.2	304.1
60°	9530.5	7004.4	1199.8	607.2	449.3	360.0	313.9	269.8	263.9	273.7	275.7
62.5°	11118.8	8342.5	1387.1	660.2	478.7	363.0	308.0	264.9	248.2	248.2	250.2
65°	12061.5	8700.6	1283.2	704.4	503.3	360.0	301.2	260.0	236.4	225.6	226.6
67.5°	11262.0	7651.9	1099.7	713.2	502.3	346.3	290.4	251.1	224.7	208.0	207.0
69°	10260.4	6602.2	1017.3	689.6	478.7	328.6	276.6	241.3	215.8	198.2	197.2
70°	9453.0	5961.6	963.4	664.1	453.2	315.9	265.9	232.5	209.0	192.3	190.3
72.5°	6873.0	3906.4	823.1	570.9	373.8	264.9	229.6	204.1	186.4	176.6	174.6
75°	3434.5	1862.9	668.1	463.0	286.5	211.9	188.4	170.7	161.9	159.9	158.9
77.5°	1128.2	853.5	477.8	345.3	212.9	165.8	152.1	139.3	137.3	143.2	141.3
80°	620.0	496.4	303.1	228.6	145.2	121.6	119.7	112.8	115.8	125.6	123.6
82.5°	315.9	258.0	187.4	137.3	98.1	87.3	95.2	91.2	95.2	104.0	103.0
85°	156.0	141.3	118.7	83.4	64.7	55.9	67.7	70.6	72.6	79.5	79.5
87.5°	90.3	83.4	62.8	39.2	32.4	29.4	39.2	38.3	45.1	49.1	48.1
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)