

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: P454866

Luminaire Tested: **GALN-SA6A-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24652 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

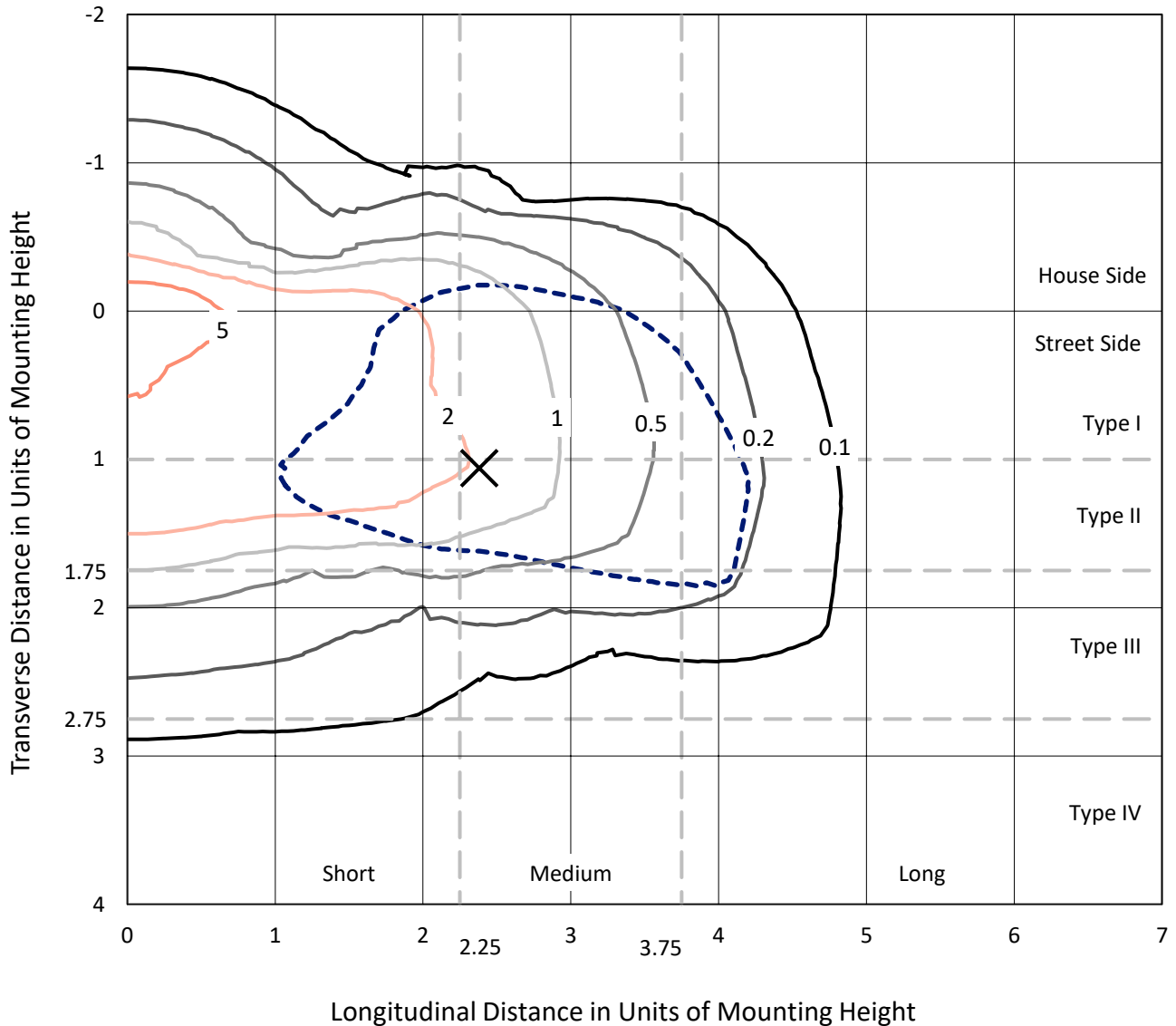
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

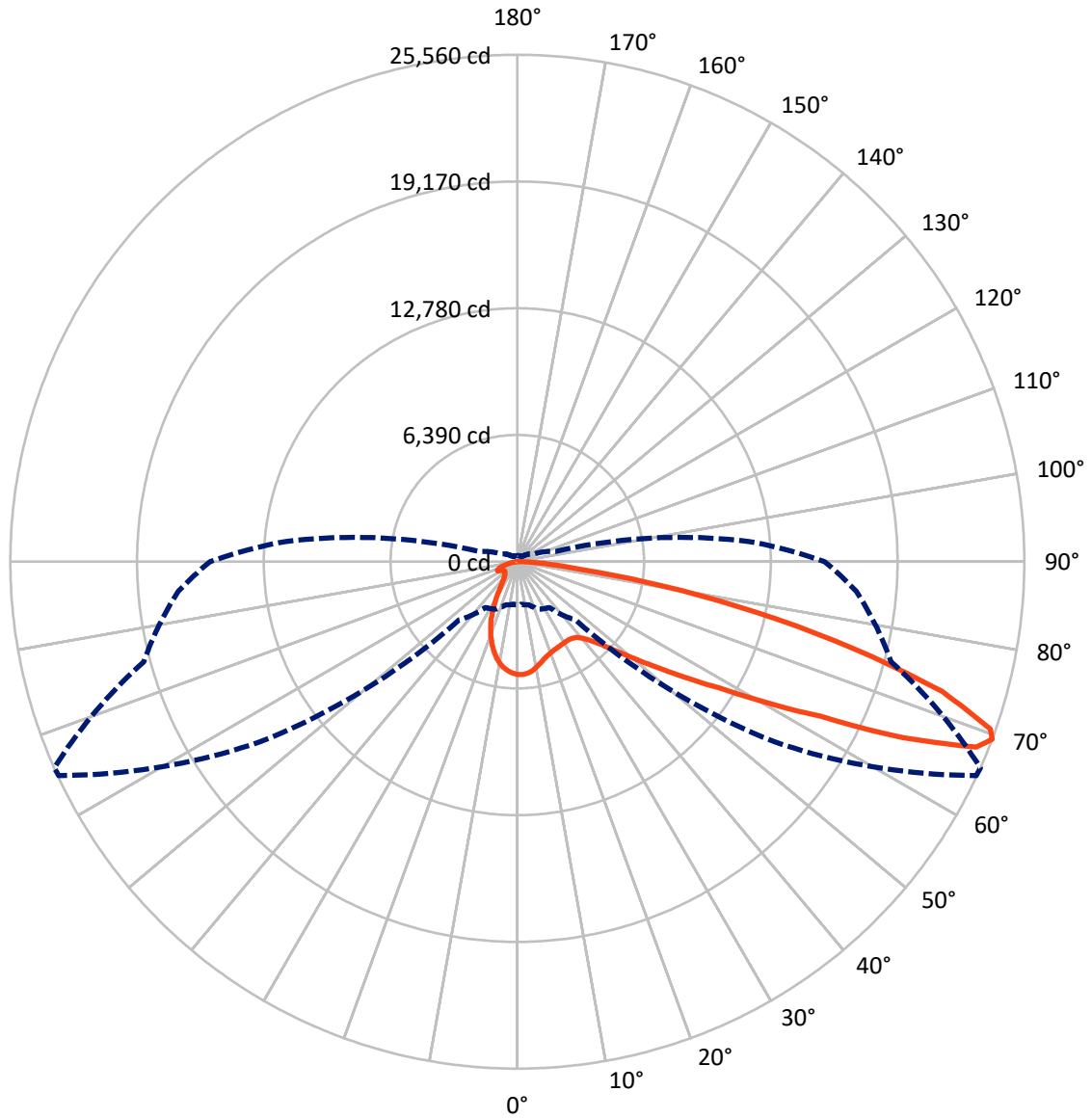
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4636.1	0.0	4636.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20015.9	0.0	20015.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	24652.0	0.0	24652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.4	2.0
10°-20°	1172.6	4.8
20°-30°	1596.3	6.5
30°-40°	2145.1	8.7
40°-50°	3203.0	13.0
50°-60°	5094.9	20.7
60°-70°	6266.4	25.4
70°-80°	4077.2	16.5
80°-90°	602.1	2.4
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°	24652.0	100.0
0°-180°	24652.0	100.0

**Coefficient of Utilization**



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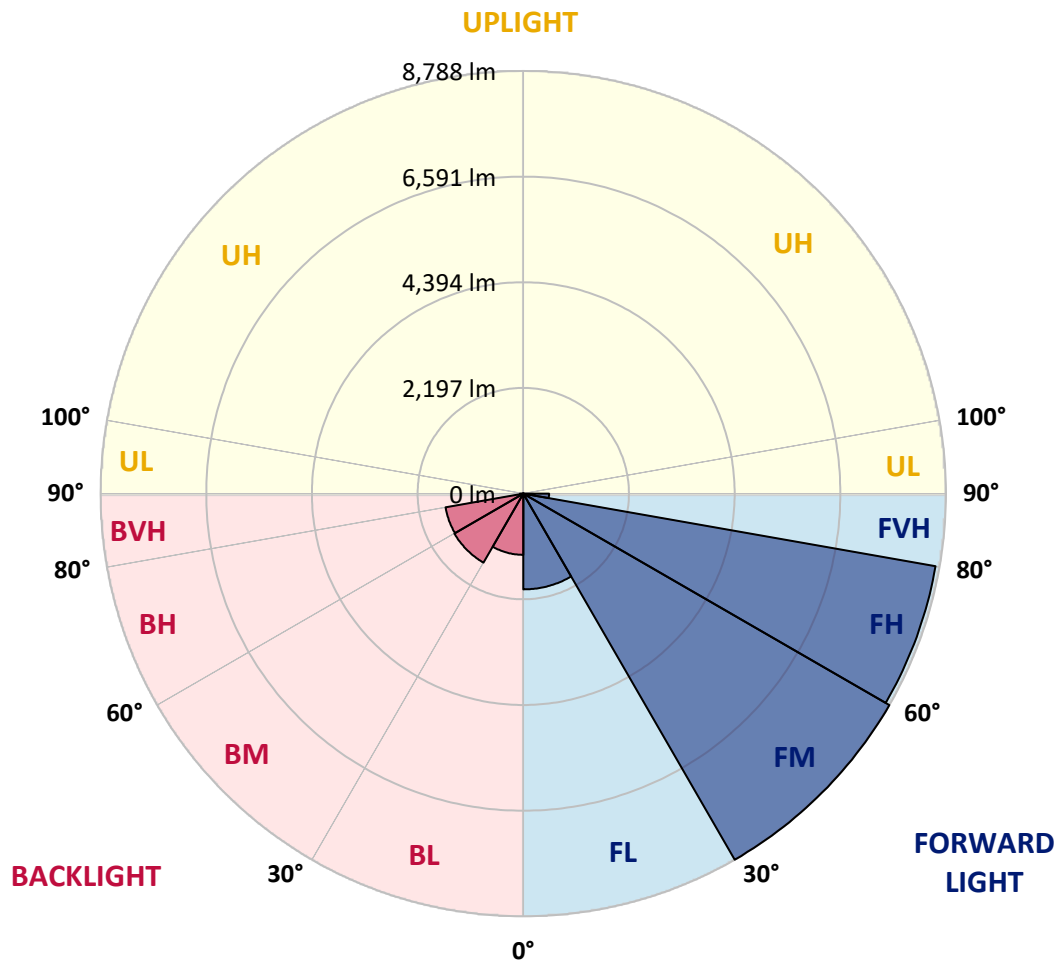
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1990.6	8.1			
FM	(30°-60°)	8787.7	35.6			
FH	(60°-80°)	8702.3	35.3			G4/12000
FVH	(80°-90°)	535.3	2.2			G4/750
BL	(0°-30°)	1272.6	5.2	B3/2500		
BM	(30°-60°)	1655.3	6.7	B2/2500		
BH	(60°-80°)	1641.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	66.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8
2.5°	5493.5	5515.4	5539.9	5567.2	5619.1	5647.8	5668.3	5691.5	5694.2	5706.5	5696.9
5°	5088.1	5114.0	5150.9	5202.7	5280.5	5402.0	5527.6	5630.0	5642.3	5699.7	5716.0
7.5°	4749.5	4764.5	4794.5	4877.8	4988.4	5123.5	5306.5	5514.0	5544.0	5680.5	5728.3
10°	4473.7	4488.7	4524.2	4610.2	4719.5	4888.7	5089.4	5362.5	5387.0	5621.8	5731.1
12.5°	4267.6	4281.2	4319.5	4404.1	4529.7	4688.1	4909.2	5198.6	5234.1	5544.0	5705.1
15°	4110.6	4136.5	4167.9	4237.5	4370.0	4522.9	4737.2	5048.5	5077.1	5462.1	5687.4
17.5°	4043.7	4056.0	4077.8	4142.0	4238.9	4389.1	4604.8	4931.1	4965.2	5404.8	5683.3
20°	4046.4	4058.7	4062.8	4098.3	4167.9	4297.6	4510.6	4838.2	4879.2	5354.3	5690.1
22.5°	4139.2	4140.6	4125.6	4113.3	4140.6	4248.5	4443.7	4768.6	4816.4	5332.4	5695.6
25°	4282.6	4307.2	4285.3	4228.0	4177.5	4229.4	4417.7	4730.4	4775.4	5301.0	5688.7
27.5°	4514.7	4518.8	4501.0	4423.2	4292.1	4253.9	4406.8	4701.7	4739.9	5277.8	5654.6
30°	4825.9	4813.7	4797.3	4711.3	4505.1	4348.1	4430.0	4675.8	4715.4	5243.7	5613.7
32.5°	5141.3	5179.5	5164.5	5063.5	4795.9	4531.1	4505.1	4673.0	4705.8	5217.7	5568.6
35°	5475.8	5493.5	5564.5	5512.6	5238.2	4827.3	4645.7	4715.4	4741.3	5219.1	5537.2
37.5°	5737.9	5785.7	5952.2	5997.3	5739.2	5219.1	4873.7	4835.5	4846.4	5286.0	5549.5
40°	6054.6	6136.5	6350.9	6535.2	6365.9	5728.3	5261.4	5058.0	5071.7	5447.1	5630.0
42.5°	6456.0	6513.3	6801.4	7051.2	7023.9	6401.4	5731.1	5422.5	5429.4	5767.9	5855.3
45°	6925.6	7007.5	7331.1	7706.5	7770.6	7163.1	6409.6	5974.1	5970.0	6266.2	6275.8
47.5°	7526.3	7576.8	7897.6	8307.2	8566.6	8120.1	7232.8	6765.9	6722.2	6992.5	6914.7
50°	8079.2	8158.4	8401.4	8849.1	9494.9	9241.0	8315.4	7792.5	7690.1	7942.7	7811.6
52.5°	8311.3	8394.5	8599.3	9154.9	10290.8	10690.8	9690.1	9017.1	8846.4	9040.3	8992.5
55°	7908.5	8016.4	8207.5	8883.3	10640.3	12363.1	11544.0	10432.8	10308.5	10225.3	10238.9
57.5°	6825.9	6928.3	7186.3	7931.7	10222.5	13576.8	14191.1	12252.6	11986.3	11602.7	11668.3
60°	5195.9	5260.1	5393.9	6219.8	8984.3	13892.1	17197.3	14552.9	14383.6	12974.7	13021.2
62.5°	3690.1	3762.5	3855.3	4267.6	6577.5	13003.4	19550.8	17765.2	17160.4	14395.9	14350.9
65°	2996.6	2947.4	3059.4	3251.9	3859.4	10077.8	20080.5	22223.9	21391.1	16267.6	15642.3
67.5°	2464.2	2412.3	2522.9	2865.5	2935.2	5849.8	18172.0	25118.1	24951.5	18303.1	16954.3
69°	2181.6	2154.3	2251.2	2641.6	2817.7	4154.3	15830.7	25520.8	25560.4	19503.1	17156.3
70°	1965.9	1976.8	2071.0	2528.3	2764.5	3425.3	13530.4	24965.2	25301.0	20102.4	16937.9
72.5°	1447.1	1470.3	1601.4	2094.2	2714.0	2906.5	8051.9	21806.1	22400.0	20137.9	15494.9
75°	1011.6	1000.7	1116.7	1576.8	2563.8	2880.5	4729.0	16864.2	17537.2	17406.1	13019.8
77.5°	662.1	679.9	772.7	1114.0	2157.0	2858.7	3082.6	11964.5	12401.4	11641.0	7701.0
80°	466.9	465.5	517.4	760.4	1600.0	2746.8	2524.2	7541.3	7430.7	4574.7	2284.0
82.5°	267.6	286.7	346.8	535.2	1070.3	2417.7	2322.2	3606.8	3292.8	1303.8	771.3
85°	148.8	155.6	206.1	323.5	625.3	1821.2	2027.3	1641.0	1548.1	544.7	331.7
87.5°	47.8	51.9	86.0	163.8	284.0	860.1	1148.1	757.7	699.0	196.6	133.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8	5692.8
2.5°	5701.0	5717.4	5673.7	5631.4	5593.2	5539.9	5492.1	5452.6	5425.3	5421.2	5407.5
5°	5720.1	5721.5	5638.2	5526.3	5417.1	5296.9	5172.7	5084.0	5000.7	4954.3	4931.1
7.5°	5733.8	5721.5	5571.3	5389.8	5179.5	4961.1	4742.7	4567.9	4432.8	4379.5	4400.0
10°	5728.3	5690.1	5470.3	5179.5	4873.7	4547.4	4233.4	3987.7	3762.5	3646.4	3649.1
12.5°	5698.3	5635.5	5320.1	4943.3	4494.2	4057.3	3576.8	3245.1	2984.3	2830.0	2782.3
15°	5672.4	5563.1	5144.0	4622.5	4064.2	3440.3	2854.6	2445.1	2226.6	2105.1	2103.8
17.5°	5645.1	5493.5	4951.5	4282.6	3570.0	2767.2	2152.9	1840.3	1737.9	1750.2	1729.7
20°	5616.4	5411.6	4750.9	3904.4	2967.9	2064.2	1612.3	1485.3	1514.0	1570.0	1578.2
22.5°	5583.6	5324.2	4535.2	3488.1	2334.5	1553.6	1307.8	1288.7	1362.5	1449.8	1462.1
25°	5533.1	5215.0	4263.5	3052.6	1800.7	1251.9	1145.4	1159.0	1231.4	1305.1	1313.3
27.5°	5462.1	5079.9	3989.1	2509.2	1352.9	1074.4	1047.1	1064.8	1100.3	1145.4	1156.3
30°	5366.6	4927.0	3673.7	2039.6	1084.0	985.7	974.7	984.3	1004.8	1023.9	1029.4
32.5°	5271.0	4779.5	3355.6	1561.8	966.6	927.0	916.0	916.0	916.0	918.8	920.1
35°	5182.3	4640.3	3014.3	1216.4	905.1	880.5	865.5	849.1	846.4	836.9	836.9
37.5°	5133.1	4513.3	2651.2	1018.4	860.1	842.3	821.8	794.5	779.5	780.9	778.2
40°	5142.7	4430.0	2320.8	906.5	823.2	804.1	772.7	741.3	731.7	731.7	729.0
42.5°	5250.5	4402.7	2004.1	847.8	787.7	765.9	726.3	697.6	692.2	690.8	693.5
45°	5499.0	4469.6	1720.1	809.6	757.7	724.9	685.3	659.4	653.9	653.9	652.6
47.5°	5983.6	4686.7	1516.7	785.0	735.8	693.5	652.6	626.6	617.1	614.3	614.3
50°	6737.2	5157.7	1365.2	763.1	708.5	664.8	622.5	592.5	577.5	576.1	574.7
52.5°	7784.3	5892.1	1306.5	746.8	678.5	634.8	588.4	559.7	540.6	536.5	533.8
55°	9008.9	6917.4	1387.0	734.5	647.1	600.7	552.9	522.9	505.1	496.9	495.6
57.5°	10427.3	8148.8	1692.8	718.1	618.4	563.8	517.4	487.4	468.3	458.7	456.0
60°	11701.0	9414.3	2226.6	708.5	593.9	524.2	476.5	449.1	431.4	421.8	420.5
62.5°	13100.3	10621.2	2864.2	734.5	582.9	486.0	438.2	413.7	398.6	389.1	389.1
65°	14595.2	11829.3	3286.0	821.8	599.3	456.0	397.3	376.8	363.1	356.3	354.9
67.5°	15602.7	12247.1	2707.2	911.9	640.3	423.2	357.7	341.3	333.1	326.3	326.3
69°	15493.5	11718.8	1997.3	935.2	652.6	406.8	335.8	323.5	312.6	309.9	307.2
70°	15148.1	11116.7	1673.7	920.1	643.0	391.8	322.2	307.2	297.6	294.9	293.5
72.5°	13492.1	9641.0	1246.4	800.0	547.4	339.9	285.3	271.7	263.5	259.4	259.4
75°	11209.6	7879.9	973.4	636.2	428.7	286.7	244.4	233.4	226.6	223.9	222.5
77.5°	6282.6	4400.0	699.0	498.3	324.9	232.1	204.8	195.2	188.4	185.7	185.7
80°	1750.2	1257.3	410.9	329.0	221.2	176.1	162.5	155.6	146.1	139.2	143.3
82.5°	659.4	544.7	234.8	198.0	140.6	117.4	113.3	107.8	103.8	94.2	94.2
85°	320.8	264.8	150.2	105.1	77.8	61.4	58.7	56.0	53.2	46.4	47.8
87.5°	110.6	117.4	65.5	38.2	23.2	15.0	12.3	6.8	6.8	6.8	6.8
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)