

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: P455214

Luminaire Tested: **GALN-SA6B-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455214  
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-SA6B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA 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: 24760 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

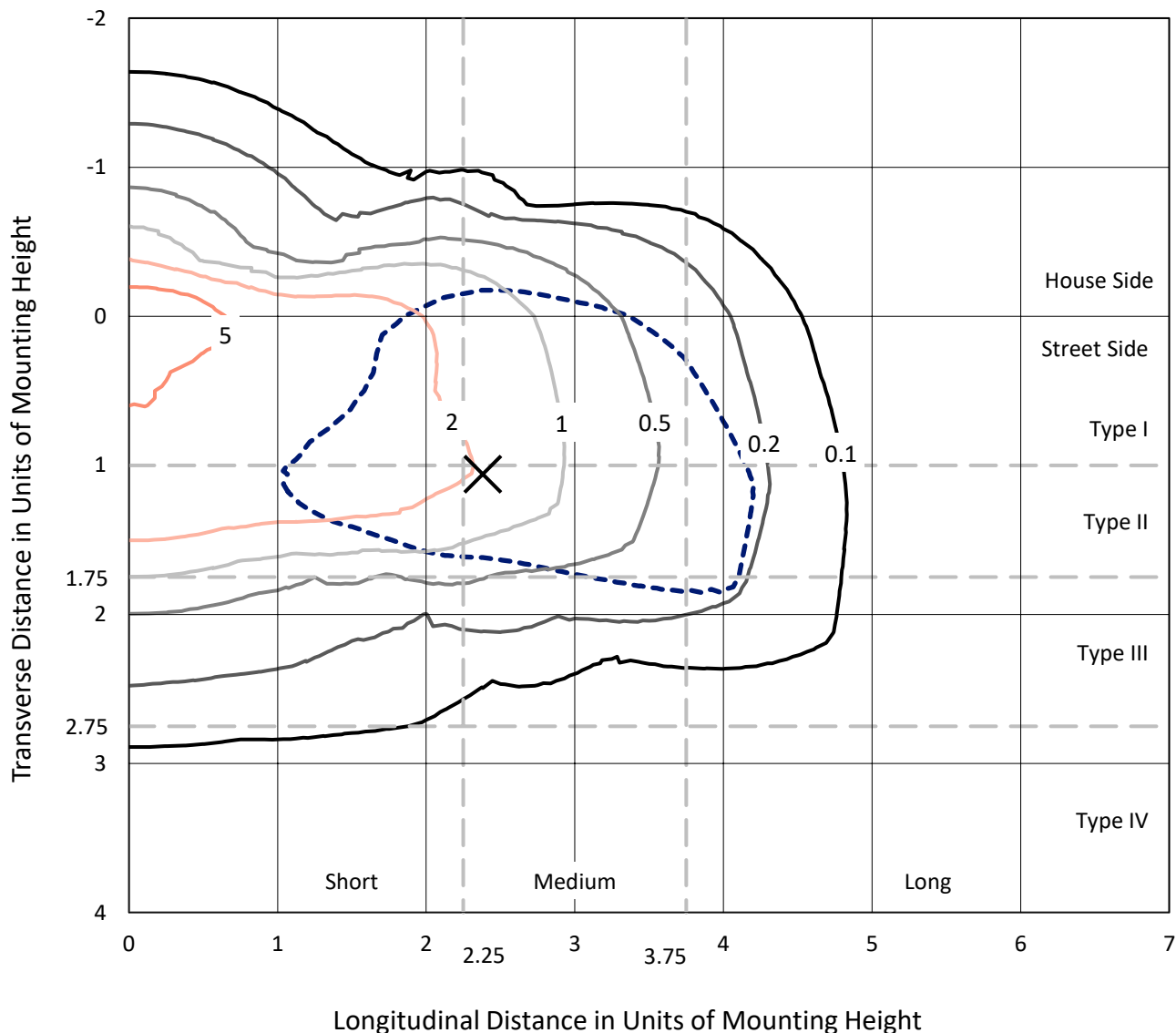
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

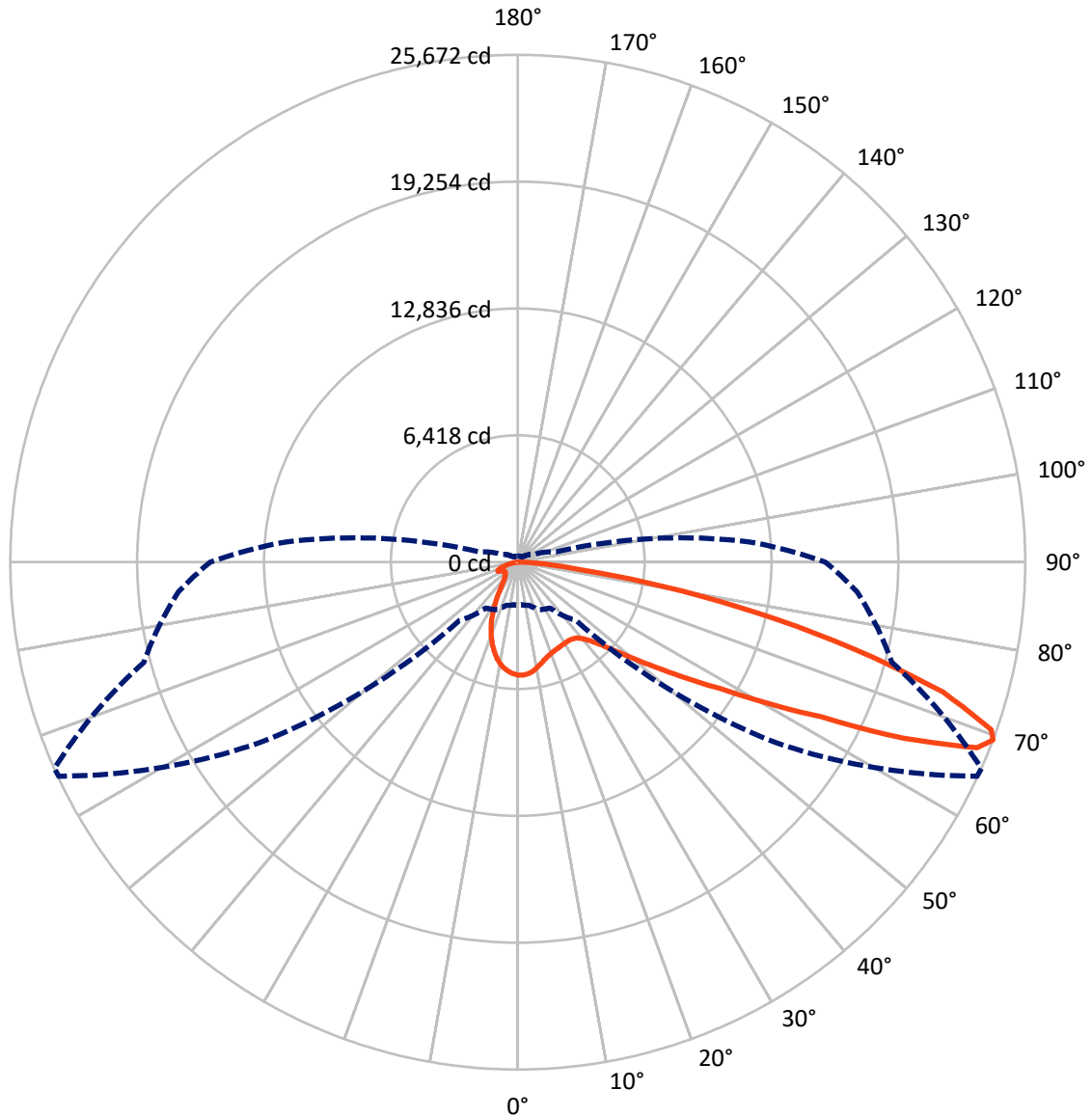
× Max cd  
 - - - 1/2 Max cd



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	4656.4	0.0	4656.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	20103.6	0.0	20103.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	24760.0	0.0	24760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.5	2.0
10°-20°	1177.7	4.8
20°-30°	1603.3	6.5
30°-40°	2154.5	8.7
40°-50°	3217.0	13.0
50°-60°	5117.2	20.7
60°-70°	6293.9	25.4
70°-80°	4095.1	16.5
80°-90°	604.7	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°	24760.0	100.0
0°-180°	24760.0	100.0

**Coefficient of Utilization**



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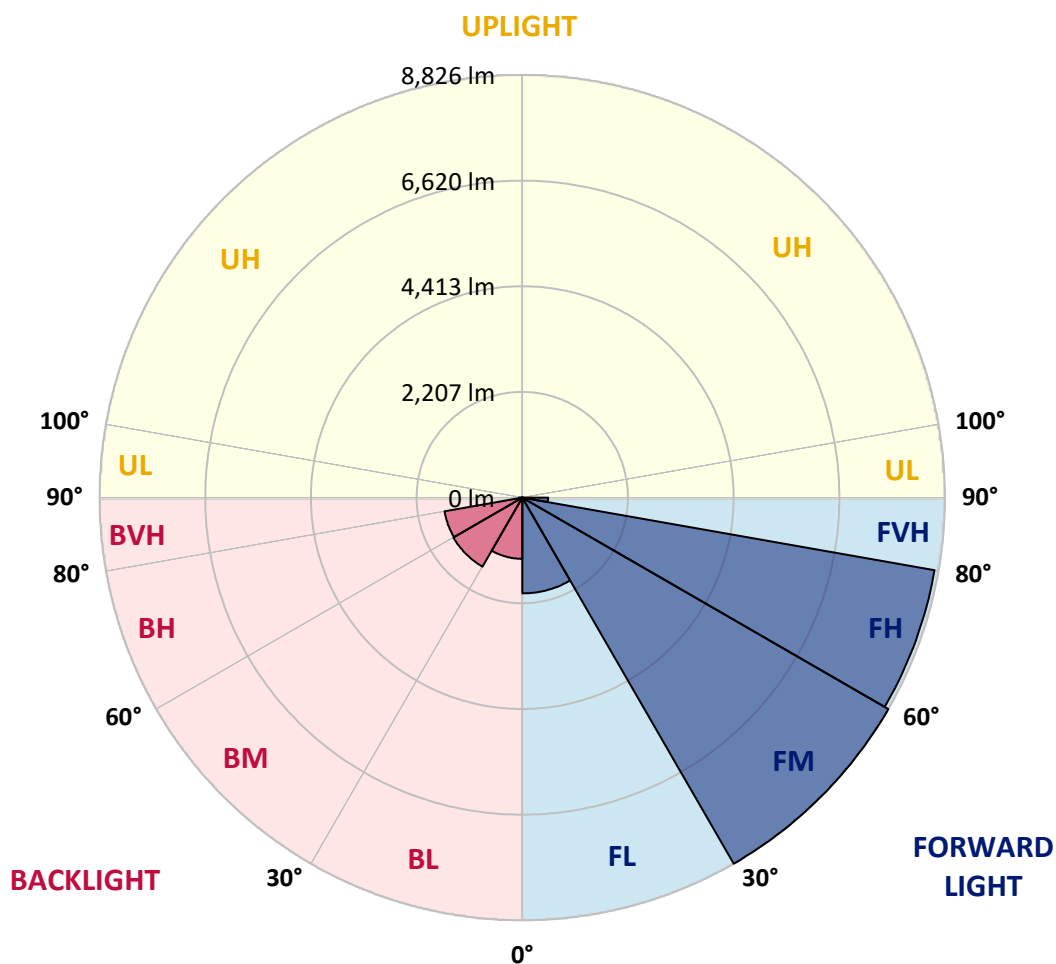
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1999.3	8.1			
FM	(30°-60°)	8826.2	35.6			
FH	(60°-80°)	8740.4	35.3			G4/12000
FVH	(80°-90°)	537.6	2.2			G4/750
BL	(0°-30°)	1278.2	5.2	B3/2500		
BM	(30°-60°)	1662.6	6.7	B2/2500		
BH	(60°-80°)	1648.6	6.7	B3/2500		G3/2500
BVH	(80°-90°)	67.1	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°	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8
2.5°	5517.6	5539.5	5564.2	5591.6	5643.7	5672.5	5693.1	5716.4	5719.1	5731.5	5721.9
5°	5110.3	5136.4	5173.4	5225.5	5303.7	5425.7	5551.9	5654.7	5667.0	5724.6	5741.1
7.5°	4770.3	4785.4	4815.5	4899.2	5010.2	5146.0	5329.7	5538.1	5568.3	5705.4	5753.4
10°	4493.3	4508.4	4544.1	4630.4	4740.1	4910.2	5111.7	5385.9	5410.6	5646.5	5756.2
12.5°	4286.3	4300.0	4338.4	4423.4	4549.5	4708.6	4930.7	5221.4	5257.1	5568.3	5730.1
15°	4128.6	4154.6	4186.2	4256.1	4389.1	4542.7	4758.0	5070.6	5099.4	5486.0	5712.3
17.5°	4061.4	4073.7	4095.7	4160.1	4257.5	4408.3	4625.0	4952.7	4986.9	5428.5	5708.2
20°	4064.1	4076.5	4080.6	4116.2	4186.2	4316.4	4530.3	4859.4	4900.6	5377.7	5715.0
22.5°	4157.4	4158.8	4143.7	4131.3	4158.8	4267.1	4463.2	4789.5	4837.5	5355.8	5720.5
25°	4301.4	4326.0	4304.1	4246.5	4195.8	4247.9	4437.1	4751.1	4796.3	5324.2	5713.7
27.5°	4534.5	4538.6	4520.7	4442.6	4311.0	4272.6	4426.1	4722.3	4760.7	5300.9	5679.4
30°	4847.1	4834.7	4818.3	4731.9	4524.9	4367.2	4449.4	4696.3	4736.0	5266.7	5638.2
32.5°	5163.8	5202.2	5187.1	5085.7	4816.9	4550.9	4524.9	4693.5	4726.4	5240.6	5593.0
35°	5499.8	5517.6	5588.9	5536.8	5261.2	4848.5	4666.1	4736.0	4762.1	5242.0	5561.5
37.5°	5763.0	5811.0	5978.3	6023.5	5764.4	5242.0	4895.1	4856.7	4867.6	5309.2	5573.8
40°	6081.1	6163.4	6378.7	6563.8	6393.8	5753.4	5284.5	5080.2	5093.9	5471.0	5654.7
42.5°	6484.3	6541.8	6831.2	7082.1	7054.7	6429.4	5756.2	5446.3	5453.1	5793.2	5880.9
45°	6955.9	7038.2	7363.2	7740.2	7804.7	7194.5	6437.6	6000.2	5996.1	6293.7	6303.3
47.5°	7559.3	7610.0	7932.2	8343.6	8604.1	8155.7	7264.4	6795.5	6751.6	7023.1	6945.0
50°	8114.6	8194.1	8438.2	8887.9	9536.5	9281.4	8351.8	7826.6	7723.8	7977.5	7845.8
52.5°	8347.7	8431.3	8637.0	9195.1	10335.9	10737.6	9732.6	9056.6	8885.2	9079.9	9031.9
55°	7943.2	8051.5	8243.5	8922.2	10686.9	12417.3	11594.6	10478.5	10353.7	10270.1	10283.8
57.5°	6855.8	6958.7	7217.8	7966.5	10267.3	13636.3	14253.3	12306.2	12038.9	11653.6	11719.4
60°	5218.7	5283.1	5417.5	6247.0	9023.7	13953.0	17272.6	14616.7	14446.6	13031.6	13078.2
62.5°	3706.3	3778.9	3872.2	4286.3	6606.3	13060.4	19636.5	17843.0	17235.6	14459.0	14413.7
65°	3009.7	2960.4	3072.8	3266.1	3876.3	10122.0	20168.5	22321.2	21484.8	16338.8	15710.8
67.5°	2475.0	2422.9	2533.9	2878.1	2948.0	5875.5	18251.6	25228.1	25060.8	18383.3	17028.5
69°	2191.1	2163.7	2261.1	2653.2	2830.1	4172.5	15900.1	25632.6	25672.4	19588.5	17231.5
70°	1974.5	1985.5	2080.1	2539.4	2776.6	3440.3	13589.6	25074.6	25411.9	20190.5	17012.1
72.5°	1453.4	1476.7	1608.4	2103.4	2725.9	2919.2	8087.2	21901.7	22498.1	20226.1	15562.8
75°	1016.0	1005.1	1121.6	1583.7	2575.1	2893.2	4749.7	16938.0	17614.0	17482.4	13076.8
77.5°	665.0	682.8	776.1	1118.9	2166.4	2871.2	3096.1	12016.9	12455.7	11692.0	7734.8
80°	468.9	467.6	519.7	763.7	1607.0	2758.8	2535.3	7574.3	7463.3	4594.8	2294.0
82.5°	268.7	287.9	348.3	537.5	1075.0	2428.3	2332.4	3622.6	3307.3	1309.5	774.7
85°	149.5	156.3	207.0	325.0	628.0	1829.1	2036.2	1648.1	1554.9	547.1	333.2
87.5°	48.0	52.1	86.4	164.5	285.2	863.8	1153.2	761.0	702.0	197.4	134.4
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°	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8	5717.8
2.5°	5726.0	5742.5	5698.6	5656.1	5617.7	5564.2	5516.2	5476.4	5449.0	5444.9	5431.2
5°	5745.2	5746.6	5662.9	5550.5	5440.8	5320.1	5195.4	5106.2	5022.6	4976.0	4952.7
7.5°	5758.9	5746.6	5595.7	5413.4	5202.2	4982.8	4763.4	4587.9	4452.2	4398.7	4419.3
10°	5753.4	5715.0	5494.3	5202.2	4895.1	4567.4	4252.0	4005.2	3778.9	3662.4	3665.1
12.5°	5723.3	5660.2	5343.4	4965.0	4513.9	4075.1	3592.5	3259.3	2997.4	2842.4	2794.4
15°	5697.2	5587.5	5166.6	4642.8	4082.0	3455.3	2867.1	2455.8	2236.4	2114.3	2113.0
17.5°	5669.8	5517.6	4973.2	4301.4	3585.6	2779.4	2162.3	1848.3	1745.5	1757.8	1737.3
20°	5641.0	5435.3	4771.7	3921.5	2980.9	2073.2	1619.3	1491.8	1520.6	1576.8	1585.1
22.5°	5608.1	5347.6	4555.0	3503.3	2344.7	1560.4	1313.6	1294.4	1368.4	1456.2	1468.5
25°	5557.3	5237.9	4282.2	3065.9	1808.6	1257.4	1150.4	1164.1	1236.8	1310.8	1319.1
27.5°	5486.0	5102.1	4006.6	2520.2	1358.8	1079.1	1051.7	1069.5	1105.2	1150.4	1161.4
30°	5390.1	4948.5	3689.8	2048.5	1088.7	990.0	979.0	988.6	1009.2	1028.4	1033.9
32.5°	5294.1	4800.5	3370.3	1568.6	970.8	931.0	920.1	920.1	920.1	922.8	924.2
35°	5205.0	4660.6	3027.5	1221.7	909.1	884.4	869.3	852.9	850.1	840.5	840.5
37.5°	5155.6	4533.1	2662.8	1022.9	863.8	846.0	825.4	798.0	782.9	784.3	781.6
40°	5165.2	4449.4	2331.0	910.5	826.8	807.6	776.1	744.5	734.9	734.9	732.2
42.5°	5273.5	4422.0	2012.9	851.5	791.2	769.2	729.5	700.7	695.2	693.8	696.6
45°	5523.1	4489.2	1727.7	813.1	761.0	728.1	688.3	662.3	656.8	656.8	655.4
47.5°	6009.8	4707.2	1523.4	788.4	739.1	696.6	655.4	629.4	619.8	617.0	617.0
50°	6766.7	5180.3	1371.2	766.5	711.6	667.8	625.3	595.1	580.0	578.6	577.3
52.5°	7818.4	5918.0	1312.2	750.0	681.5	637.6	591.0	562.2	543.0	538.9	536.1
55°	9048.3	6947.7	1393.1	737.7	649.9	603.3	555.3	525.2	507.3	499.1	497.7
57.5°	10473.0	8184.5	1700.2	721.2	621.1	566.3	519.7	489.5	470.3	460.7	458.0
60°	11752.3	9455.6	2236.4	711.6	596.5	526.5	478.5	451.1	433.3	423.7	422.3
62.5°	13157.7	10667.7	2876.7	737.7	585.5	488.1	440.1	415.5	400.4	390.8	390.8
65°	14659.2	11881.2	3300.4	825.4	601.9	458.0	399.0	378.4	364.7	357.9	356.5
67.5°	15671.1	12300.8	2719.0	915.9	643.1	425.1	359.2	342.8	334.6	327.7	327.7
69°	15561.4	11770.1	2006.0	939.3	655.4	408.6	337.3	325.0	314.0	311.3	308.5
70°	15214.5	11165.4	1681.1	924.2	645.8	393.5	323.6	308.5	298.9	296.2	294.8
72.5°	13551.3	9683.2	1251.9	803.5	549.8	341.4	286.6	272.9	264.6	260.5	260.5
75°	11258.7	7914.4	977.6	639.0	430.5	287.9	245.4	234.5	227.6	224.9	223.5
77.5°	6310.1	4419.3	702.0	500.5	326.3	233.1	205.7	196.1	189.2	186.5	186.5
80°	1757.8	1262.8	412.7	330.5	222.1	176.9	163.2	156.3	146.7	139.9	144.0
82.5°	662.3	547.1	235.8	198.8	141.2	117.9	113.8	108.3	104.2	94.6	94.6
85°	322.2	266.0	150.8	105.6	78.2	61.7	59.0	56.2	53.5	46.6	48.0
87.5°	111.1	117.9	65.8	38.4	23.3	15.1	12.3	6.9	6.9	6.9	6.9
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)