

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: P454839

Luminaire Tested: **GALN-SA6A-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 22479 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

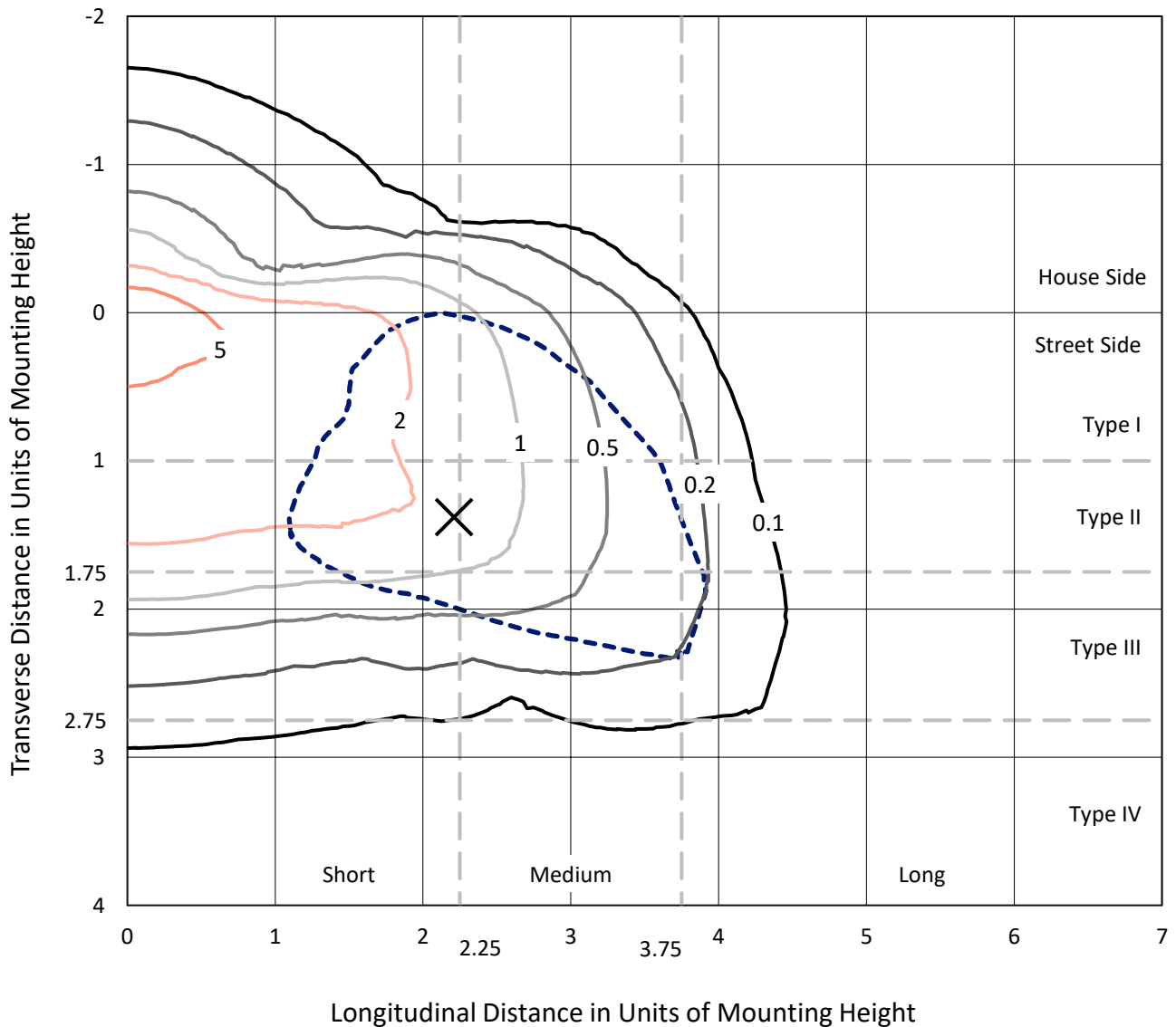
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

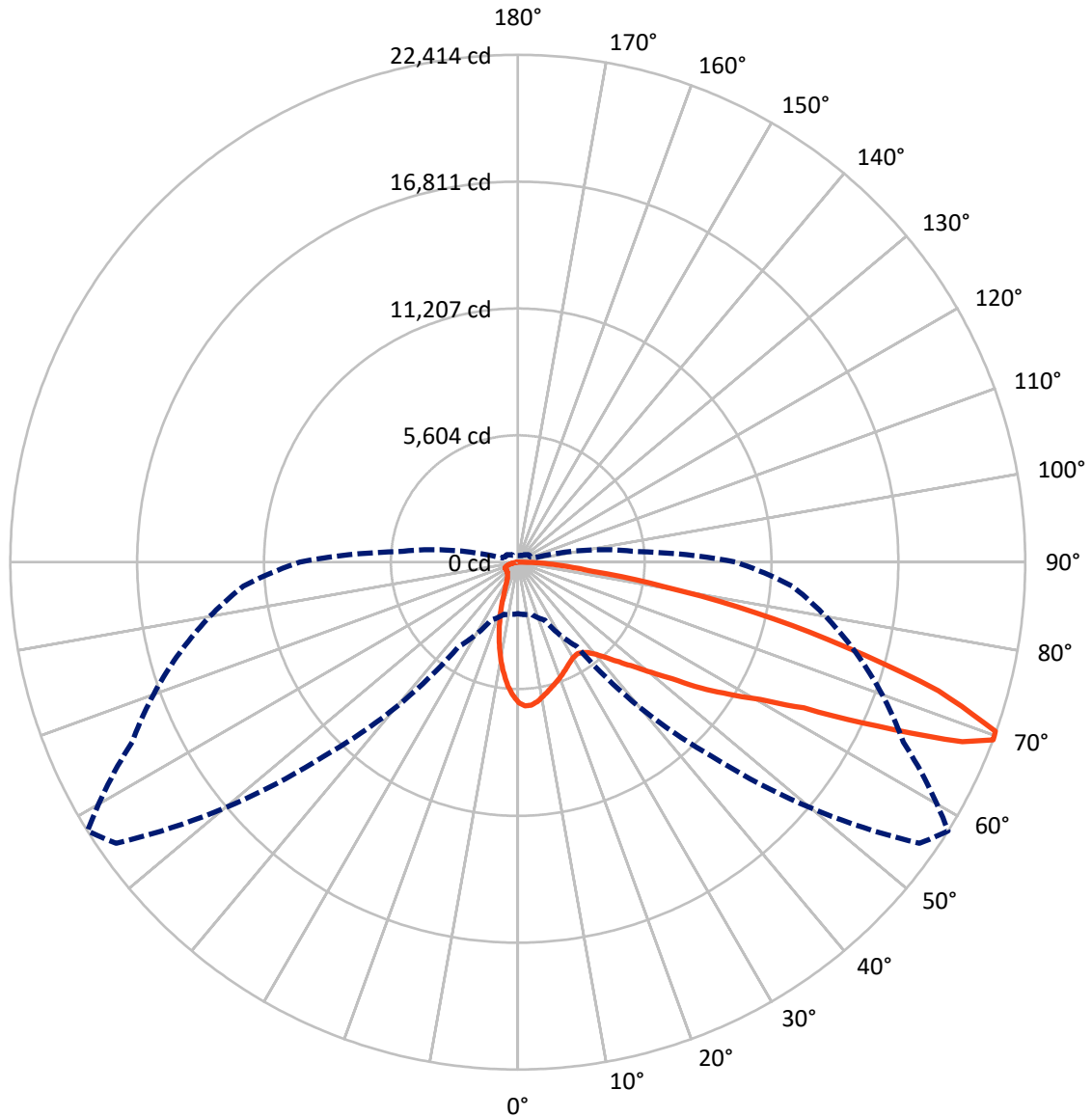
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3294.3	0.0	3294.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	19184.7	0.0	19184.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	22479.0	0.0	22479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.5	2.3
10°-20°	1158.4	5.2
20°-30°	1496.7	6.7
30°-40°	1943.9	8.6
40°-50°	2826.1	12.6
50°-60°	4509.5	20.1
60°-70°	6024.1	26.8
70°-80°	3472.7	15.4
80°-90°	520.1	2.3
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°	22479.0	100.0
0°-180°	22479.0	100.0

**Coefficient of Utilization**



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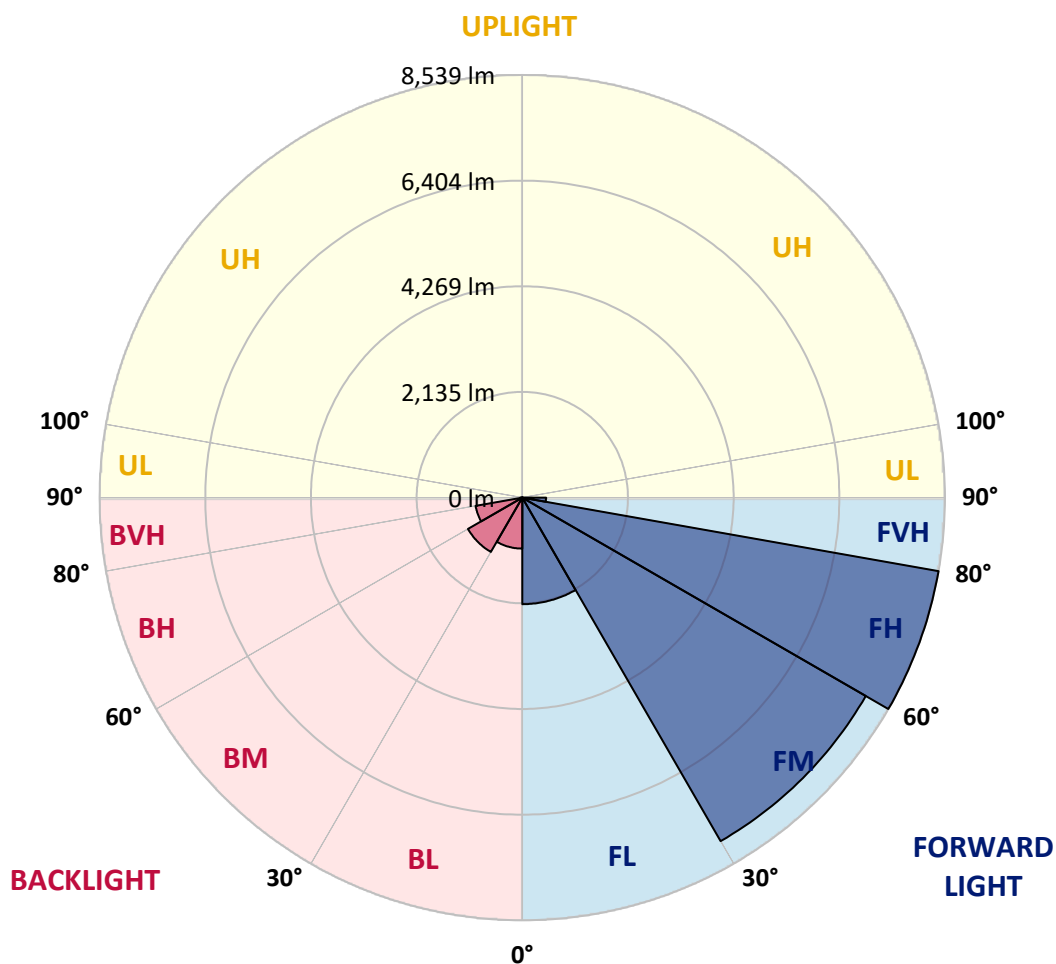
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2152.9	9.6			
FM	(30°-60°)	8012.6	35.6			
FH	(60°-80°)	8538.9	38.0			G4/12000
FVH	(80°-90°)	480.3	2.1			G3/500
BL	(0°-30°)	1029.7	4.6	B3/2500		
BM	(30°-60°)	1266.9	5.6	B2/2500		
BH	(60°-80°)	957.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	39.8	0.2			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9
2.5°	6442.6	6460.1	6455.1	6448.8	6438.8	6411.2	6366.1	6358.6	6329.7	6268.3	6191.8
5°	6343.5	6358.6	6359.8	6368.6	6381.1	6376.1	6343.5	6339.8	6297.1	6214.4	6086.5
7.5°	6003.8	6023.8	6067.7	6116.6	6160.5	6201.9	6211.9	6218.1	6191.8	6096.5	5926.0
10°	5621.4	5641.5	5661.5	5734.2	5842.1	5944.9	6030.1	6041.4	6047.7	5959.9	5751.8
12.5°	5197.7	5239.0	5281.7	5389.5	5533.7	5695.4	5845.8	5869.6	5912.3	5845.8	5601.3
15°	4837.9	4880.5	4941.9	5038.5	5212.7	5445.9	5657.8	5696.6	5780.6	5746.8	5460.9
17.5°	4588.4	4603.4	4646.1	4756.4	4944.4	5190.1	5473.5	5551.2	5685.3	5676.6	5340.6
20°	4391.6	4410.4	4436.7	4504.4	4700.0	4959.5	5301.7	5402.0	5583.8	5613.9	5221.5
22.5°	4308.8	4322.6	4318.9	4355.2	4488.1	4748.9	5127.5	5246.6	5493.5	5571.3	5111.2
25°	4313.8	4326.4	4307.6	4298.8	4377.8	4563.3	4945.7	5097.4	5420.8	5542.4	5010.9
27.5°	4397.8	4406.6	4371.5	4336.4	4342.7	4448.0	4795.2	4963.2	5359.4	5555.0	4926.9
30°	4510.7	4527.0	4504.4	4461.8	4415.4	4420.4	4698.7	4864.2	5330.6	5598.8	4886.8
32.5°	4656.1	4671.1	4661.1	4627.3	4567.1	4500.6	4674.9	4827.8	5333.1	5687.9	4878.0
35°	4809.0	4839.1	4855.4	4852.9	4804.0	4688.7	4768.9	4895.5	5393.2	5837.0	4929.4
37.5°	4982.0	5007.1	5077.3	5122.5	5077.3	4943.2	4980.8	5068.5	5526.1	6052.7	5042.2
40°	5150.0	5187.6	5290.4	5430.9	5413.3	5295.5	5304.2	5361.9	5760.6	6373.6	5262.9
42.5°	5325.5	5370.7	5549.9	5758.1	5799.4	5707.9	5731.7	5783.1	6094.0	6818.7	5641.5
45°	5551.2	5605.1	5825.8	6085.3	6248.2	6191.8	6259.5	6284.6	6540.3	7397.8	6140.4
47.5°	5842.1	5904.7	6176.8	6500.2	6730.9	6782.3	6900.1	6885.1	7093.2	8083.6	6787.3
50°	6332.2	6367.3	6624.3	6954.0	7271.2	7503.1	7631.0	7654.8	7779.0	8750.5	7510.7
52.5°	6915.2	6946.5	7132.1	7420.4	7817.8	8309.3	8625.2	8547.4	8577.5	9562.9	8356.9
55°	7570.8	7623.5	7741.3	7933.2	8448.4	9171.8	9806.1	9824.9	9491.5	10340.2	9168.0
57.5°	8078.6	8167.6	8369.4	8642.7	9295.9	10130.8	10983.3	10995.8	10569.6	11170.1	10063.1
60°	7822.8	7928.1	8389.5	9055.2	10407.9	11804.5	12389.9	12318.5	11618.9	12115.4	11155.1
62.5°	6719.6	6738.4	7409.1	8449.7	10750.1	14043.5	14483.5	14181.4	13019.2	13313.9	12264.5
65°	4348.9	4471.8	5003.4	6461.4	9625.6	15285.9	18151.7	17453.4	14982.5	14674.1	13193.5
67.5°	2745.5	2714.2	2934.8	3689.5	6620.6	14191.4	21282.1	21171.8	17550.0	15532.8	12971.6
69°	2276.6	2311.7	2387.0	2828.3	4555.8	12116.6	21651.9	22414.2	18794.9	15465.1	12165.5
70°	2064.8	2081.1	2160.1	2507.3	3515.3	10148.4	21045.2	22380.3	19283.8	15181.8	11581.3
72.5°	1638.5	1637.3	1772.7	2086.1	2627.7	5793.2	17280.4	19430.5	18737.2	13863.0	9569.2
75°	1244.9	1264.9	1414.1	1765.2	2420.8	3165.5	12058.9	14963.7	14964.9	10949.5	5971.2
77.5°	897.6	910.2	1084.4	1481.8	2280.4	2566.2	8032.2	10732.6	10089.4	5017.1	1876.7
80°	588.0	595.5	728.4	1173.4	2056.0	2420.8	4762.6	6569.2	4758.9	1331.4	620.6
82.5°	322.2	359.8	445.0	759.7	1649.8	2236.5	2894.7	3324.7	1785.2	593.0	323.4
85°	161.7	171.8	250.7	443.8	1078.1	1850.4	2015.9	1906.8	921.4	294.6	168.0
87.5°	47.6	60.2	104.1	171.8	437.5	964.1	1122.0	1006.7	354.8	106.6	35.1
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°	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9	6211.9
2.5°	6160.5	6137.9	6037.6	5947.4	5864.6	5776.9	5702.9	5637.7	5644.0	5645.2	5578.8
5°	6020.1	5968.7	5778.1	5600.1	5449.7	5259.1	5096.1	4990.8	4938.2	4868.0	4893.0
7.5°	5829.5	5730.5	5466.0	5170.1	4893.0	4646.1	4377.8	4193.5	4075.6	3961.6	3976.6
10°	5632.7	5473.5	5088.6	4697.5	4338.9	3944.0	3601.8	3308.4	3090.3	3008.8	2954.9
12.5°	5430.9	5221.5	4732.6	4212.3	3717.1	3244.5	2759.3	2444.6	2203.9	2076.1	2092.4
15°	5246.6	4992.1	4361.5	3727.1	3084.0	2521.1	2037.2	1737.6	1569.6	1534.5	1554.5
17.5°	5076.1	4742.6	4014.2	3255.8	2504.8	1890.5	1530.7	1361.5	1293.8	1275.0	1273.7
20°	4900.6	4530.7	3624.3	2751.8	1951.9	1465.5	1256.2	1177.2	1164.6	1172.2	1173.4
22.5°	4722.5	4268.7	3223.2	2251.6	1554.5	1198.5	1098.2	1076.9	1086.9	1104.5	1107.0
25°	4558.3	4038.0	2837.0	1812.8	1241.1	1053.1	1004.2	1004.2	1026.7	1053.1	1054.3
27.5°	4422.9	3814.9	2452.2	1439.2	1039.3	947.8	931.5	940.2	971.6	991.6	992.9
30°	4311.3	3606.8	2088.6	1153.4	913.9	863.8	860.0	875.1	897.6	916.4	917.7
32.5°	4227.3	3423.7	1748.9	969.1	827.4	799.8	798.6	809.9	822.4	827.4	832.4
35°	4194.7	3272.0	1437.9	852.5	769.7	752.2	752.2	750.9	756.0	758.5	761.0
37.5°	4221.1	3155.5	1197.2	777.3	727.1	714.6	707.1	699.5	697.0	697.0	698.3
40°	4332.6	3094.0	1018.0	728.4	697.0	678.2	664.4	655.7	646.9	649.4	651.9
42.5°	4569.6	3105.3	896.4	695.8	670.7	644.4	624.3	614.3	608.0	615.5	614.3
45°	4946.9	3218.1	818.6	673.2	644.4	610.5	591.7	581.7	581.7	593.0	596.7
47.5°	5474.7	3433.8	777.3	655.7	624.3	584.2	565.4	557.9	560.4	579.2	580.4
50°	6119.1	3808.6	769.7	646.9	614.3	565.4	544.1	536.6	542.8	562.9	565.4
52.5°	6829.9	4291.3	806.1	648.1	605.5	554.1	526.5	515.3	521.5	537.8	542.8
55°	7672.4	4895.5	900.1	653.2	593.0	547.8	514.0	488.9	496.4	507.7	509.0
57.5°	8532.4	5657.8	1065.6	654.4	583.0	536.6	492.7	460.1	460.1	467.6	471.4
60°	9583.0	6487.7	1283.7	655.7	584.2	520.3	463.9	427.5	422.5	426.2	427.5
62.5°	10626.0	7182.2	1320.1	651.9	596.7	504.0	432.5	394.9	386.1	384.9	382.4
65°	11086.1	7053.1	1081.9	634.4	610.5	493.9	407.4	363.6	348.5	343.5	343.5
67.5°	10336.4	5966.2	813.6	610.5	601.8	483.9	383.6	337.2	319.7	309.7	309.7
69°	9631.9	5306.7	730.9	594.2	579.2	467.6	368.6	323.4	302.1	290.8	287.1
70°	9087.8	4852.9	695.8	580.4	557.9	448.8	357.3	313.4	289.6	277.1	274.6
72.5°	7252.4	3807.4	609.3	527.8	475.1	377.4	317.2	282.1	259.5	245.7	242.0
75°	4179.7	2063.5	505.2	458.8	382.4	293.4	268.3	245.7	228.2	215.6	211.9
77.5°	1286.3	797.3	366.1	362.3	280.8	226.9	214.4	205.6	193.1	179.3	176.8
80°	541.6	406.2	248.2	244.5	186.8	158.0	154.2	152.9	147.9	136.6	132.9
82.5°	297.1	229.4	173.0	150.4	112.8	91.5	95.3	96.5	92.8	81.5	74.0
85°	145.4	125.4	84.0	67.7	51.4	32.6	31.3	37.6	35.1	25.1	27.6
87.5°	28.8	35.1	22.6	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
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)