

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: P454868

Luminaire Tested: **GALN-SA6A-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454868  
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-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 24479 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

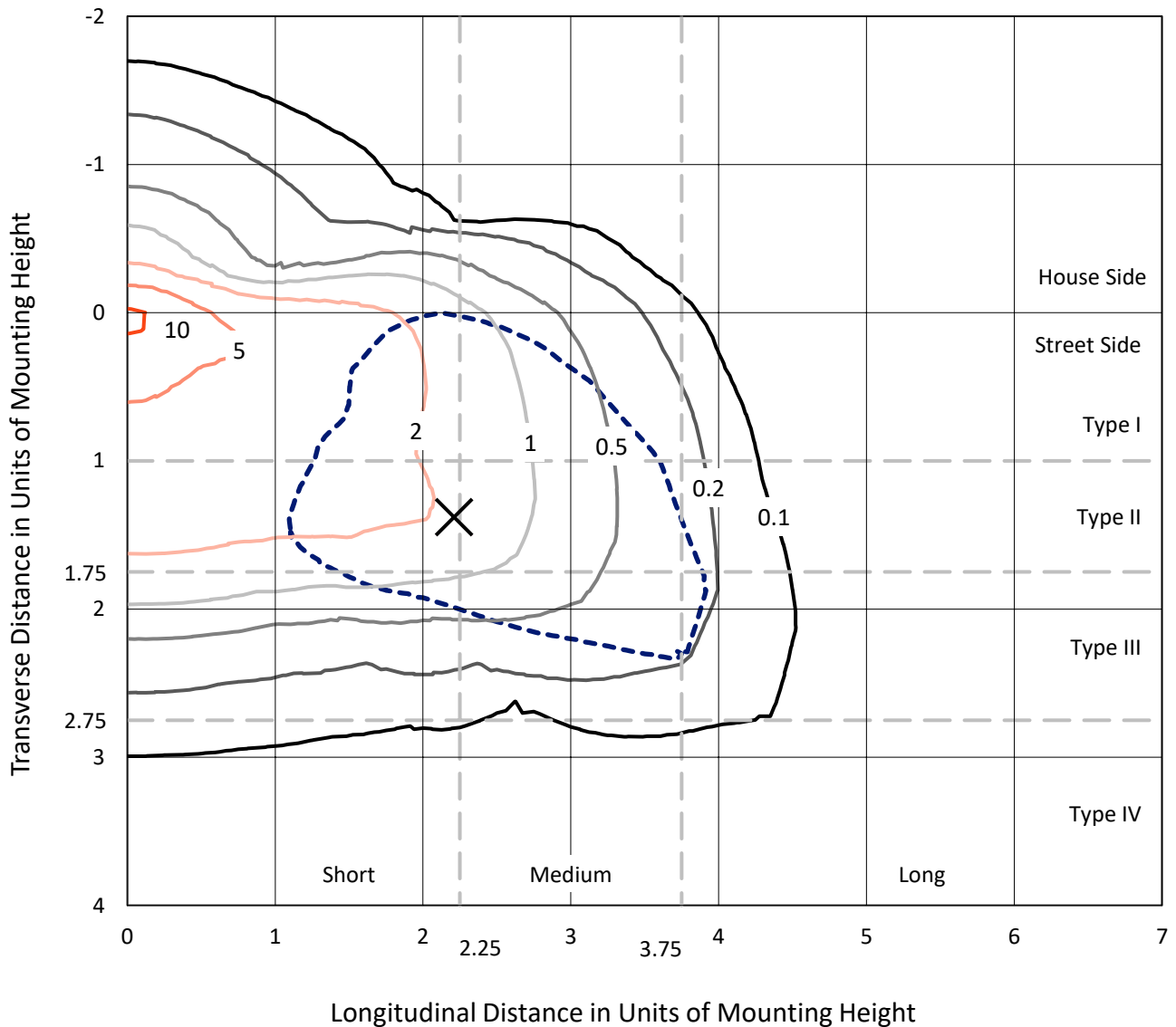
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454868  
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### Iso-Footcandle Lines of Horizontal Illumination

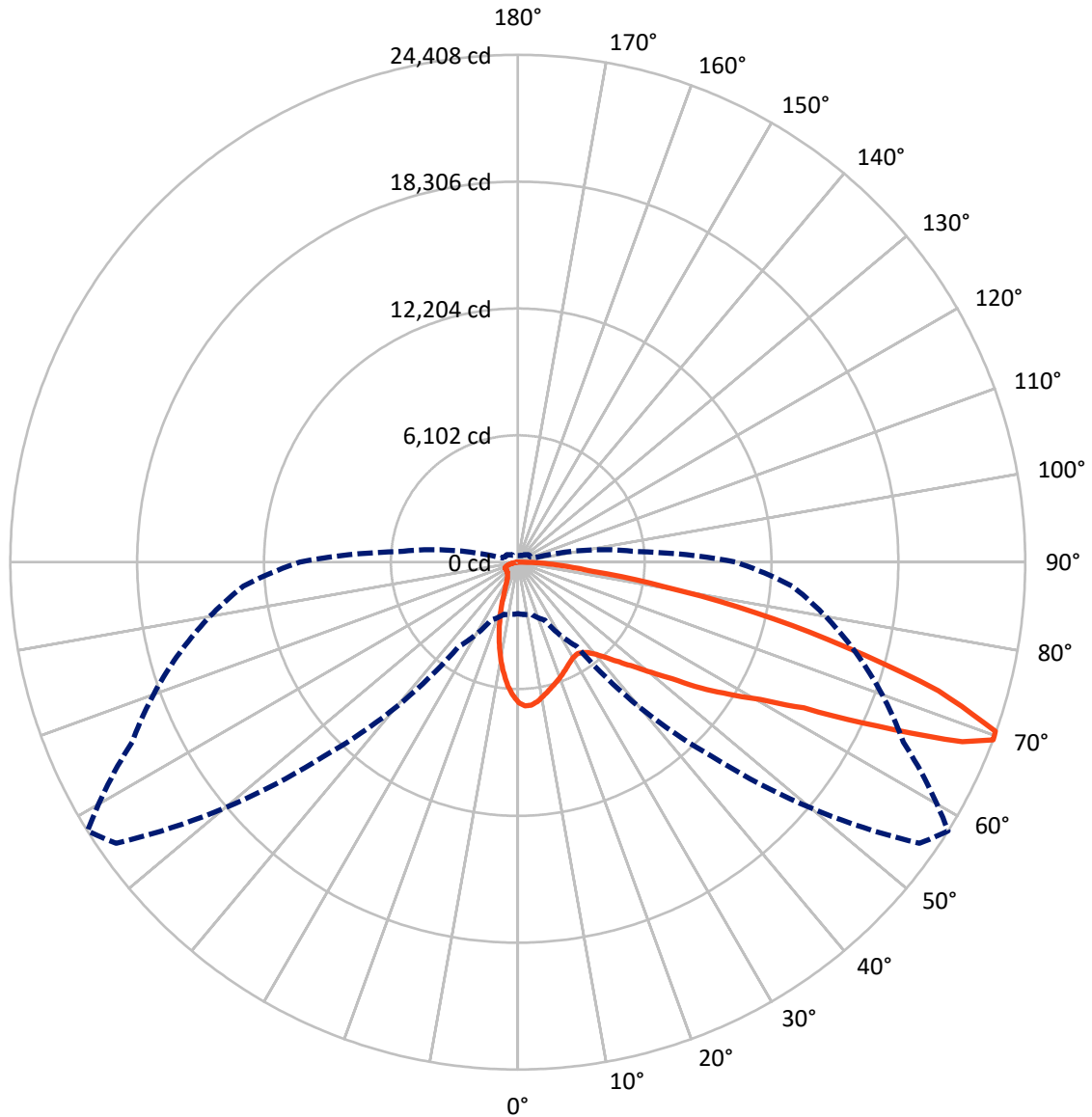
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA6A-730-U-SL3

### 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	3587.4	0.0	3587.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	20891.6	0.0	20891.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	24479.0	0.0	24479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.5	2.3
10°-20°	1261.5	5.2
20°-30°	1629.8	6.7
30°-40°	2116.8	8.6
40°-50°	3077.5	12.6
50°-60°	4910.7	20.1
60°-70°	6560.1	26.8
70°-80°	3781.6	15.4
80°-90°	566.4	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°	24479.0	100.0
0°-180°	24479.0	100.0

**Coefficient of Utilization**



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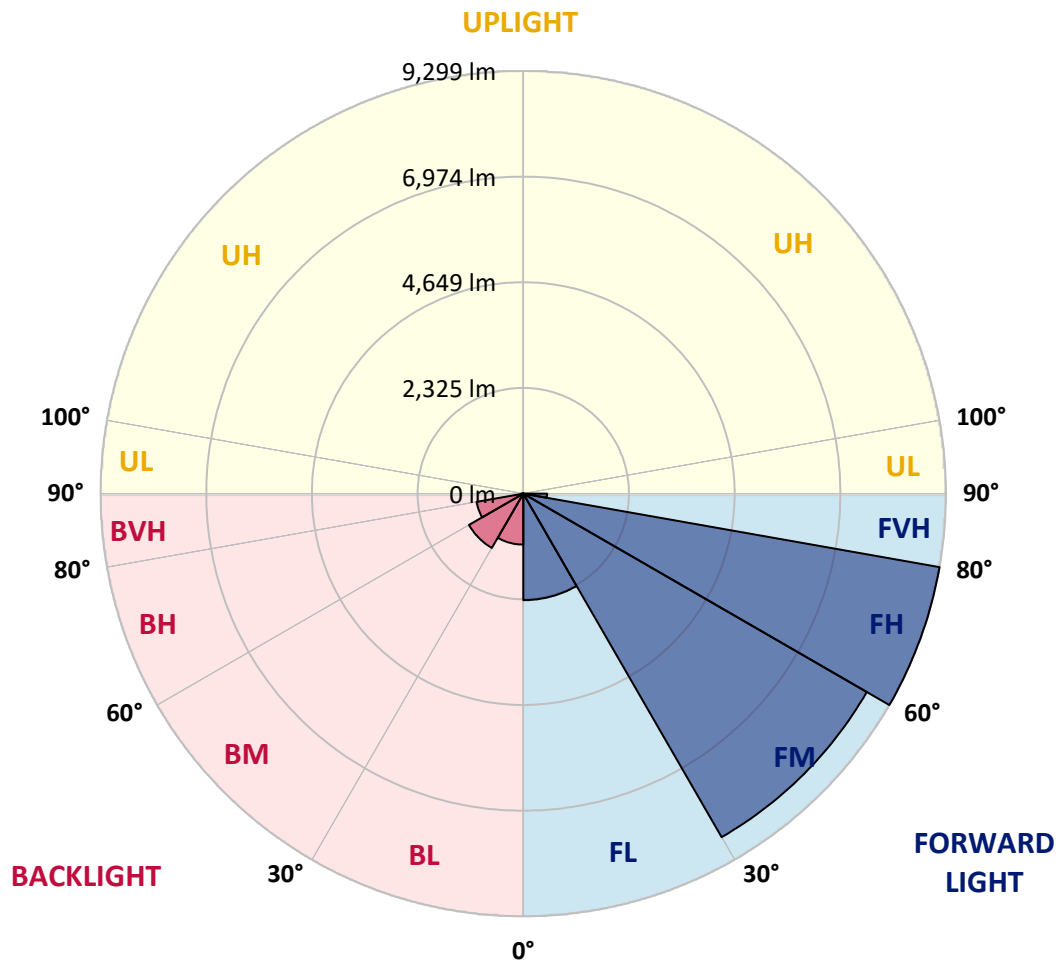
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2344.5	9.6			
FM	(30°-60°)	8725.5	35.6			
FH	(60°-80°)	9298.6	38.0			G4/12000
FVH	(80°-90°)	523.0	2.1			G4/750
BL	(0°-30°)	1121.3	4.6	B3/2500		
BM	(30°-60°)	1379.6	5.6	B2/2500		
BH	(60°-80°)	1043.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	43.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6
2.5°	7015.8	7034.9	7029.4	7022.6	7011.7	6981.6	6932.5	6924.3	6892.9	6826.0	6742.7
5°	6907.9	6924.3	6925.7	6935.2	6948.9	6943.4	6907.9	6903.8	6857.4	6767.3	6628.0
7.5°	6537.9	6559.8	6607.6	6660.8	6708.6	6753.6	6764.6	6771.4	6742.7	6639.0	6453.3
10°	6121.6	6143.4	6165.2	6244.4	6361.8	6473.8	6566.6	6578.9	6585.7	6490.2	6263.5
12.5°	5660.1	5705.2	5751.6	5869.0	6026.0	6202.1	6365.9	6391.9	6438.3	6365.9	6099.7
15°	5268.3	5314.7	5381.6	5486.7	5676.5	5930.4	6161.1	6203.5	6294.9	6258.1	5946.8
17.5°	4996.6	5013.0	5059.4	5179.6	5384.3	5651.9	5960.5	6045.1	6191.2	6181.6	5815.7
20°	4782.3	4802.8	4831.4	4905.2	5118.1	5400.7	5773.4	5882.6	6080.6	6113.4	5686.1
22.5°	4692.2	4707.2	4703.1	4742.7	4887.4	5171.4	5583.7	5713.4	5982.3	6066.9	5565.9
25°	4697.7	4711.3	4690.8	4681.3	4767.3	4969.3	5385.7	5550.9	5903.1	6035.5	5456.7
27.5°	4789.1	4798.7	4760.4	4722.2	4729.1	4843.7	5221.9	5404.8	5836.2	6049.2	5365.2
30°	4912.0	4929.7	4905.2	4858.7	4808.2	4813.7	5116.8	5297.0	5804.8	6097.0	5321.5
32.5°	5070.4	5086.7	5075.8	5039.0	4973.4	4901.1	5090.8	5257.4	5807.6	6193.9	5312.0
35°	5236.9	5269.7	5287.4	5284.7	5231.4	5105.8	5193.2	5331.1	5873.1	6356.4	5368.0
37.5°	5425.3	5452.6	5529.1	5578.2	5529.1	5383.0	5423.9	5519.5	6017.8	6591.2	5490.8
40°	5608.2	5649.2	5761.1	5914.0	5894.9	5766.6	5776.2	5839.0	6273.1	6940.7	5731.1
42.5°	5799.4	5848.5	6043.7	6270.4	6315.4	6215.8	6241.7	6297.7	6636.2	7425.3	6143.4
45°	6045.1	6103.8	6344.1	6626.7	6804.2	6742.7	6816.4	6843.7	7122.2	8056.0	6686.7
47.5°	6361.8	6430.1	6726.3	7078.6	7329.8	7385.7	7514.1	7497.7	7724.3	8802.8	7391.2
50°	6895.6	6933.8	7213.7	7572.8	7918.2	8170.7	8310.0	8335.9	8471.1	9529.1	8178.9
52.5°	7530.4	7564.6	7766.6	8080.6	8513.4	9048.5	9392.6	9307.9	9340.7	10413.7	9100.4
55°	8244.4	8301.8	8430.1	8639.0	9200.1	9987.8	10678.6	10699.1	10335.9	11260.2	9983.7
57.5°	8797.3	8894.3	9114.1	9411.7	10123.0	11032.2	11960.5	11974.2	11510.0	12163.9	10958.5
60°	8518.8	8633.5	9135.9	9860.8	11333.9	12854.7	13492.3	13414.4	12652.7	13193.3	12147.5
62.5°	7317.5	7337.9	8068.3	9201.4	11706.6	15293.0	15772.1	15443.1	14177.6	14498.4	13355.7
65°	4735.9	4869.7	5448.5	7036.2	10482.0	16645.9	19766.7	19006.3	16315.5	15979.7	14367.4
67.5°	2989.8	2955.7	3195.9	4017.8	7209.6	15454.1	23175.6	23055.5	19111.4	16914.8	14125.7
69°	2479.2	2517.4	2599.3	3079.9	4961.1	13194.7	23578.4	24408.4	20467.1	16841.1	13247.9
70°	2248.5	2266.2	2352.2	2730.4	3828.0	11051.3	22917.6	24371.5	20999.5	16532.6	12611.7
72.5°	1784.3	1783.0	1930.4	2271.7	2861.5	6308.6	18817.9	21159.2	20404.3	15096.4	10420.6
75°	1355.6	1377.5	1539.9	1922.2	2636.2	3447.1	13131.9	16295.0	16296.4	11923.7	6502.4
77.5°	977.5	991.1	1180.9	1613.7	2483.3	2794.6	8746.8	11687.5	10987.1	5463.5	2043.7
80°	640.3	648.5	793.2	1277.8	2238.9	2636.2	5186.4	7153.6	5182.3	1449.8	675.8
82.5°	350.9	391.8	484.6	827.3	1796.6	2435.5	3152.2	3620.5	1944.0	645.7	352.2
85°	176.1	187.0	273.0	483.3	1174.1	2015.0	2195.2	2076.5	1003.4	320.8	182.9
87.5°	51.9	65.5	113.3	187.0	476.5	1049.8	1221.9	1096.3	386.4	116.0	38.2
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°	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6	6764.6
2.5°	6708.6	6684.0	6574.8	6476.5	6386.4	6290.8	6210.3	6139.3	6146.1	6147.5	6075.1
5°	6555.7	6499.7	6292.2	6098.3	5934.5	5727.0	5549.5	5434.9	5377.5	5301.1	5328.4
7.5°	6348.2	6240.3	5952.3	5630.1	5328.4	5059.4	4767.3	4566.6	4438.3	4314.0	4330.4
10°	6133.8	5960.5	5541.3	5115.4	4725.0	4294.9	3922.2	3602.8	3365.2	3276.5	3217.8
12.5°	5914.0	5686.1	5153.6	4587.1	4047.8	3533.1	3004.8	2662.1	2400.0	2260.8	2278.5
15°	5713.4	5436.2	4749.5	4058.7	3358.4	2745.4	2218.4	1892.2	1709.2	1671.0	1692.8
17.5°	5527.7	5164.5	4371.4	3545.4	2727.7	2058.7	1666.9	1482.6	1408.9	1388.4	1387.0
20°	5336.6	4933.8	3946.8	2996.6	2125.6	1595.9	1367.9	1281.9	1268.3	1276.5	1277.8
22.5°	5142.7	4648.5	3509.9	2451.9	1692.8	1305.1	1195.9	1172.7	1183.6	1202.7	1205.5
25°	4963.9	4397.3	3089.4	1974.1	1351.5	1146.8	1093.5	1093.5	1118.1	1146.8	1148.1
27.5°	4816.4	4154.3	2670.3	1567.2	1131.8	1032.1	1014.3	1023.9	1058.0	1079.9	1081.2
30°	4694.9	3927.7	2274.4	1256.0	995.2	940.6	936.5	952.9	977.5	998.0	999.3
32.5°	4603.5	3728.4	1904.5	1055.3	901.0	871.0	869.6	881.9	895.6	901.0	906.5
35°	4568.0	3563.2	1565.9	928.3	838.2	819.1	819.1	817.8	823.2	825.9	828.7
37.5°	4596.6	3436.2	1303.8	846.4	791.8	778.2	770.0	761.8	759.1	759.1	760.4
40°	4718.1	3369.3	1108.5	793.2	759.1	738.6	723.6	714.0	704.4	707.2	709.9
42.5°	4976.2	3381.6	976.1	757.7	730.4	701.7	679.9	668.9	662.1	670.3	668.9
45°	5387.1	3504.5	891.5	733.1	701.7	664.9	644.4	633.5	633.5	645.7	649.8
47.5°	5961.8	3739.3	846.4	714.0	679.9	636.2	615.7	607.5	610.2	630.7	632.1
50°	6663.5	4147.5	838.2	704.4	668.9	615.7	592.5	584.3	591.1	613.0	615.7
52.5°	7437.6	4673.1	877.8	705.8	659.4	603.4	573.4	561.1	567.9	585.7	591.1
55°	8355.0	5331.1	980.2	711.3	645.7	596.6	559.7	532.4	540.6	552.9	554.3
57.5°	9291.5	6161.1	1160.4	712.6	634.8	584.3	536.5	501.0	501.0	509.2	513.3
60°	10435.6	7064.9	1398.0	714.0	636.2	566.6	505.1	465.5	460.1	464.2	465.5
62.5°	11571.4	7821.2	1437.6	709.9	649.8	548.8	471.0	430.0	420.5	419.1	416.4
65°	12072.5	7680.6	1178.2	690.8	664.9	537.9	443.7	395.9	379.5	374.1	374.1
67.5°	11256.1	6497.0	886.0	664.9	655.3	527.0	417.8	367.2	348.1	337.2	337.2
69°	10488.8	5778.9	795.9	647.1	630.7	509.2	401.4	352.2	329.0	316.7	312.6
70°	9896.3	5284.7	757.7	632.1	607.5	488.7	389.1	341.3	315.4	301.7	299.0
72.5°	7897.7	4146.1	663.5	574.7	517.4	410.9	345.4	307.2	282.6	267.6	263.5
75°	4551.6	2247.1	550.2	499.7	416.4	319.5	292.2	267.6	248.5	234.8	230.7
77.5°	1400.7	868.3	398.6	394.5	305.8	247.1	233.4	223.9	210.2	195.2	192.5
80°	589.8	442.3	270.3	266.2	203.4	172.0	167.9	166.6	161.1	148.8	144.7
82.5°	323.6	249.8	188.4	163.8	122.9	99.7	103.8	105.1	101.0	88.7	80.5
85°	158.4	136.5	91.5	73.7	56.0	35.5	34.1	41.0	38.2	27.3	30.0
87.5°	31.4	38.2	24.6	10.9	5.5	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)