

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: P459216

Luminaire Tested: **GALN-SA7A-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459216  
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-SA7A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 29618 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

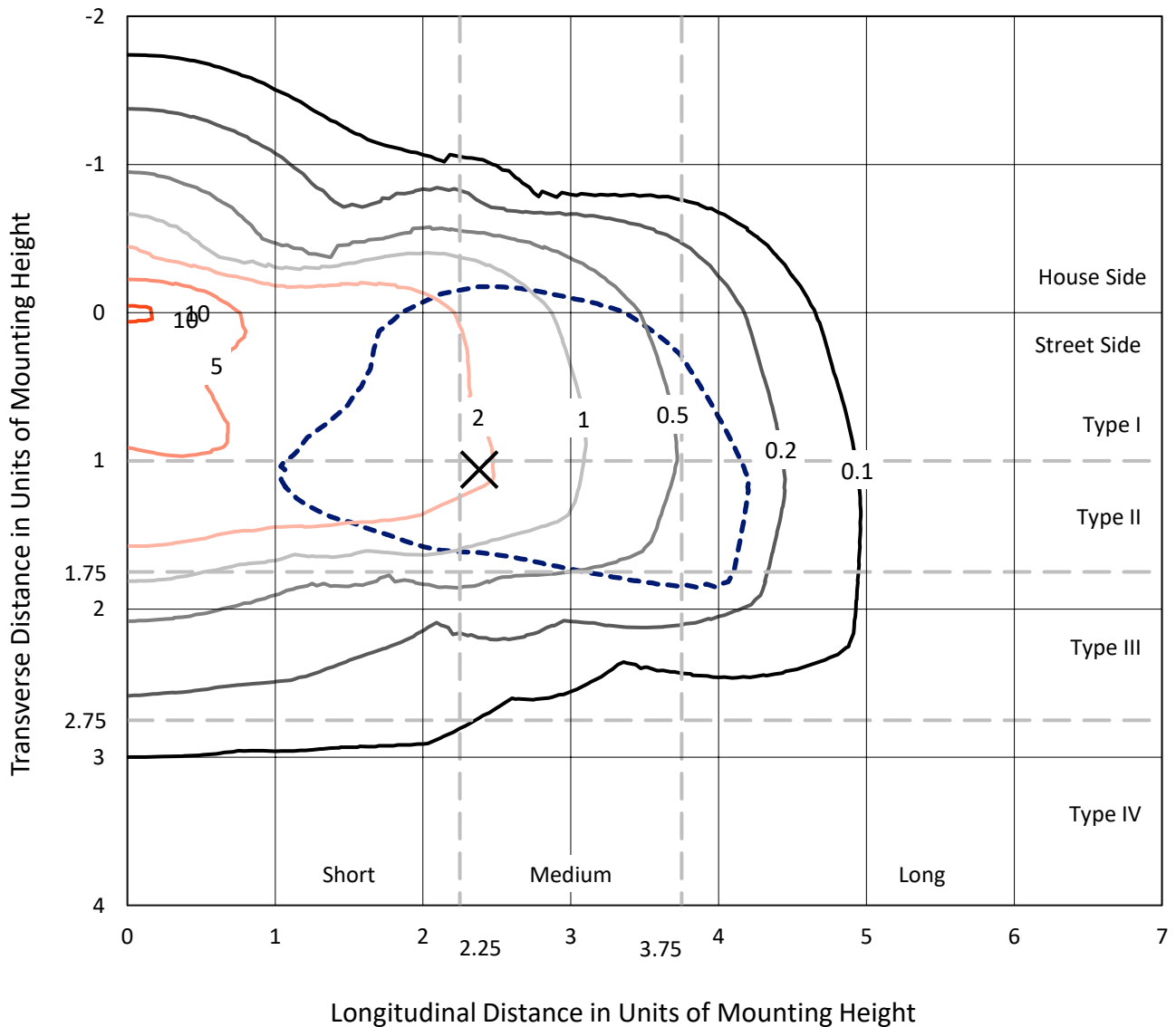
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

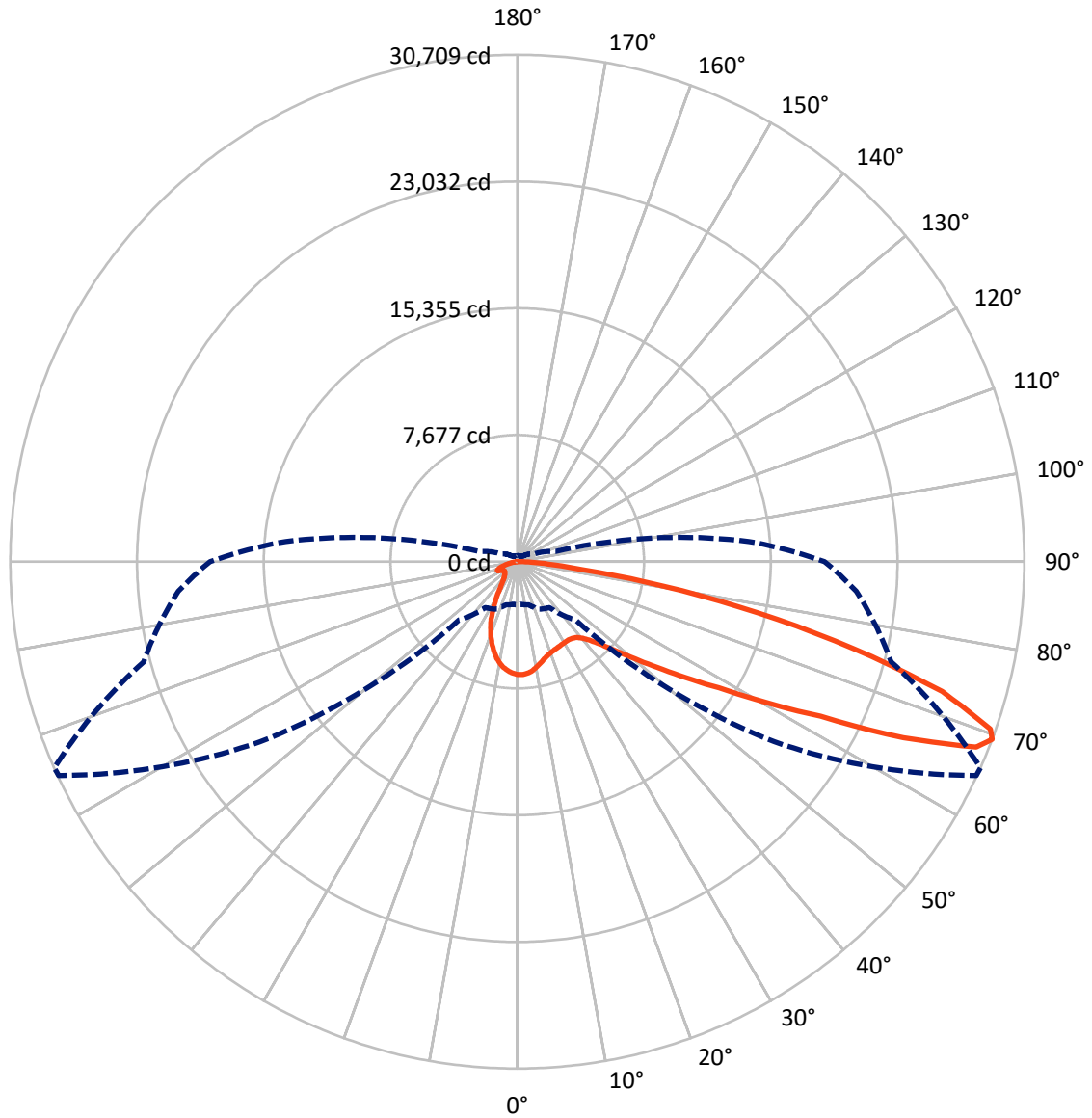
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	5570.0	0.0	5570.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	24048.0	0.0	24048.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	29618.0	0.0	29618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.9	2.0
10°-20°	1408.8	4.8
20°-30°	1917.9	6.5
30°-40°	2577.2	8.7
40°-50°	3848.2	13.0
50°-60°	6121.2	20.7
60°-70°	7528.8	25.4
70°-80°	4898.6	16.5
80°-90°	723.4	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°	29618.0	100.0
0°-180°	29618.0	100.0

**Coefficient of Utilization**



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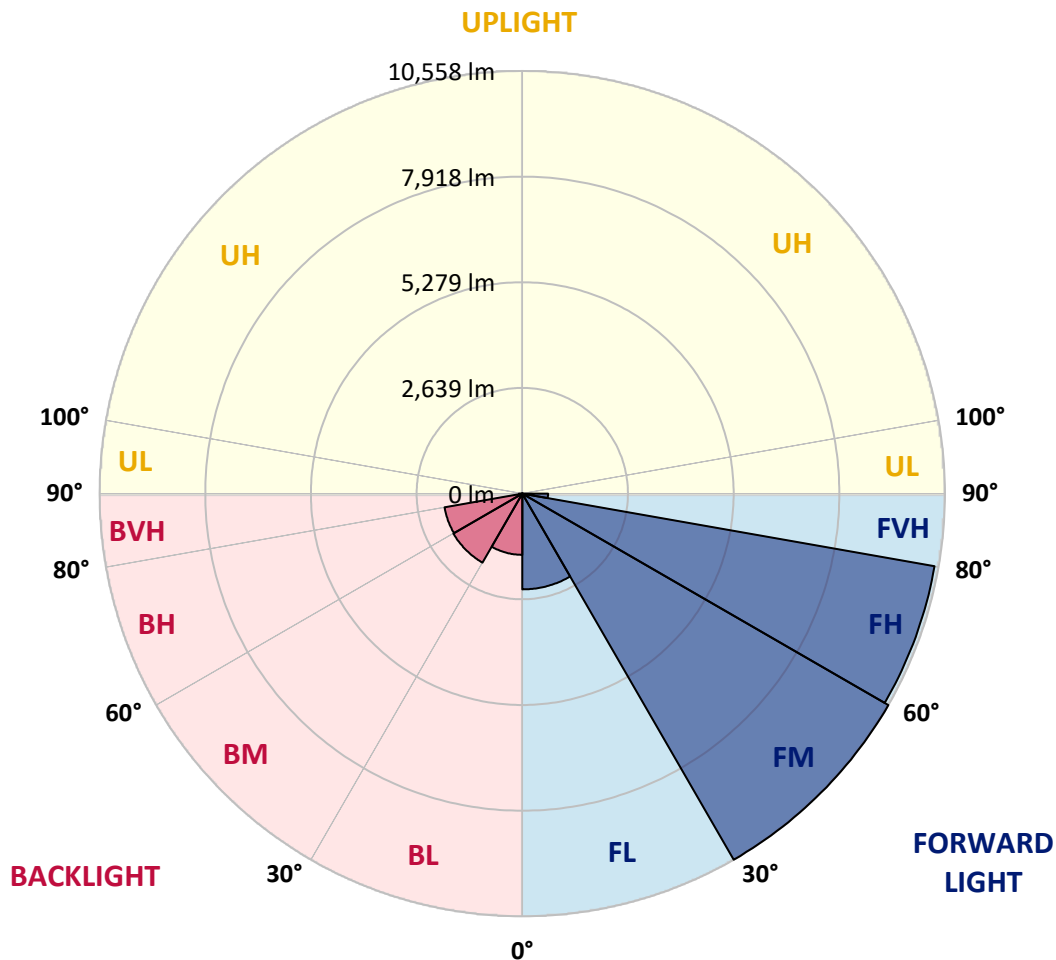
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2391.6	8.1			
FM	(30°-60°)	10557.9	35.6			
FH	(60°-80°)	10455.3	35.3			G4/12000
FVH	(80°-90°)	643.1	2.2			G4/750
BL	(0°-30°)	1529.0	5.2	B3/2500		
BM	(30°-60°)	1988.8	6.7	B2/2500		
BH	(60°-80°)	1972.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	80.3	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°	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6
2.5°	6600.2	6626.4	6655.9	6688.7	6751.0	6785.5	6810.1	6838.0	6841.3	6856.0	6844.5
5°	6113.0	6144.2	6188.5	6250.8	6344.3	6490.3	6641.2	6764.2	6778.9	6847.8	6867.5
7.5°	5706.2	5724.3	5760.4	5860.4	5993.3	6155.7	6375.4	6624.8	6660.8	6824.9	6882.3
10°	5374.9	5393.0	5435.6	5538.9	5670.2	5873.5	6114.7	6442.7	6472.2	6754.3	6885.5
12.5°	5127.3	5143.7	5189.6	5291.3	5442.2	5632.4	5898.1	6245.9	6288.5	6660.8	6854.4
15°	4938.6	4969.8	5007.5	5091.2	5250.3	5434.0	5691.5	6065.4	6099.9	6562.4	6833.1
17.5°	4858.3	4873.0	4899.3	4976.4	5092.8	5273.2	5532.4	5924.4	5965.4	6493.5	6828.1
20°	4861.5	4876.3	4881.2	4923.9	5007.5	5163.3	5419.2	5812.9	5862.1	6432.9	6836.3
22.5°	4973.1	4974.7	4956.7	4941.9	4974.7	5104.3	5338.8	5729.2	5786.6	6406.6	6842.9
25°	5145.3	5174.8	5148.6	5079.7	5019.0	5081.3	5307.7	5683.3	5737.4	6368.9	6834.7
27.5°	5424.1	5429.1	5407.7	5314.2	5156.8	5110.9	5294.6	5648.8	5694.8	6341.0	6793.7
30°	5798.1	5783.3	5763.7	5660.3	5412.6	5224.0	5322.4	5617.7	5665.2	6300.0	6744.5
32.5°	6177.0	6222.9	6204.9	6083.5	5762.0	5443.8	5412.6	5614.4	5653.8	6268.8	6690.4
35°	6578.8	6600.2	6685.4	6623.1	6293.4	5799.7	5581.6	5665.2	5696.4	6270.5	6652.6
37.5°	6893.7	6951.2	7151.3	7205.4	6895.4	6270.5	5855.5	5809.6	5822.7	6350.8	6667.4
40°	7274.3	7372.7	7630.2	7851.6	7648.2	6882.3	6321.3	6076.9	6093.3	6544.4	6764.2
42.5°	7756.5	7825.4	8171.5	8471.6	8438.8	7690.9	6885.5	6514.9	6523.1	6929.8	7034.8
45°	8320.7	8419.1	8807.9	9258.9	9336.0	8606.1	7700.7	7177.5	7172.6	7528.5	7540.0
47.5°	9042.4	9103.1	9488.5	9980.6	10292.2	9755.9	8689.8	8128.8	8076.3	8401.1	8307.6
50°	9706.7	9801.8	10093.8	10631.8	11407.6	11102.5	9990.4	9362.2	9239.2	9542.7	9385.2
52.5°	9985.5	10085.6	10331.6	10999.2	12363.8	12844.4	11642.1	10833.5	10628.5	10861.4	10804.0
55°	9501.7	9631.2	9860.9	10672.8	12783.7	14853.6	13869.5	12534.4	12385.1	12285.1	12301.5
57.5°	8201.0	8324.0	8634.0	9529.5	12281.8	16311.8	17049.8	14720.8	14400.9	13940.0	14018.8
60°	6242.6	6319.7	6480.4	7472.7	10794.1	16690.6	20661.6	17484.5	17281.1	15588.4	15644.2
62.5°	4433.5	4520.4	4631.9	5127.3	7902.5	15622.9	23489.3	21343.9	20617.3	17295.9	17241.7
65°	3600.2	3541.2	3675.7	3906.9	4636.8	12107.9	24125.6	26700.8	25700.2	19544.6	18793.4
67.5°	2960.6	2898.2	3031.1	3442.8	3526.4	7028.2	21832.7	30178.0	29977.9	21990.1	20369.6
69°	2621.0	2588.2	2704.7	3173.8	3385.4	4991.1	19019.7	30661.8	30709.4	23431.8	20612.3
70°	2361.9	2375.0	2488.2	3037.6	3321.4	4115.3	16256.0	29994.3	30397.8	24151.9	20349.9
72.5°	1738.6	1766.5	1924.0	2516.1	3260.7	3492.0	9673.9	26198.9	26912.3	24194.5	18616.2
75°	1215.4	1202.3	1341.7	1894.4	3080.3	3460.8	5681.6	20261.3	21070.0	20912.5	15642.6
77.5°	795.5	816.8	928.4	1338.4	2591.5	3434.6	3703.6	14374.7	14899.5	13986.0	9252.3
80°	560.9	559.3	621.6	913.6	1922.3	3300.1	3032.7	9060.4	8927.6	5496.3	2744.0
82.5°	321.5	344.4	416.6	643.0	1285.9	2904.8	2790.0	4333.4	3956.2	1566.4	926.7
85°	178.8	187.0	247.7	388.7	751.2	2188.0	2435.7	1971.5	1860.0	654.4	398.6
87.5°	57.4	62.3	103.3	196.8	341.2	1033.3	1379.4	910.3	839.8	236.2	160.7
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°	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6	6839.6
2.5°	6849.5	6869.1	6816.7	6765.8	6719.9	6655.9	6598.5	6550.9	6518.1	6513.2	6496.8
5°	6872.4	6874.1	6774.0	6639.5	6508.3	6364.0	6214.7	6108.1	6008.0	5952.3	5924.4
7.5°	6888.8	6874.1	6693.6	6475.5	6222.9	5960.5	5698.0	5488.1	5325.7	5261.8	5286.4
10°	6882.3	6836.3	6572.3	6222.9	5855.5	5463.5	5086.2	4791.0	4520.4	4381.0	4384.2
12.5°	6846.2	6770.7	6391.8	5939.2	5399.5	4874.7	4297.3	3898.7	3585.5	3400.1	3342.7
15°	6815.0	6683.8	6180.3	5553.7	4882.9	4133.3	3429.7	2937.6	2675.2	2529.2	2527.5
17.5°	6782.2	6600.2	5949.0	5145.3	4289.1	3324.7	2586.6	2211.0	2088.0	2102.7	2078.1
20°	6747.8	6501.7	5707.9	4691.0	3565.8	2480.0	1937.1	1784.5	1819.0	1886.2	1896.1
22.5°	6708.4	6396.8	5448.7	4190.7	2804.7	1866.5	1571.3	1548.3	1636.9	1741.9	1756.7
25°	6647.7	6265.6	5122.3	3667.5	2163.4	1504.1	1376.1	1392.5	1479.5	1568.0	1577.9
27.5°	6562.4	6103.2	4792.7	3014.7	1625.4	1290.8	1258.0	1279.4	1322.0	1376.1	1389.2
30°	6447.6	5919.5	4413.8	2450.5	1302.3	1184.2	1171.1	1182.6	1207.2	1230.1	1236.7
32.5°	6332.8	5742.3	4031.6	1876.4	1161.3	1113.7	1100.6	1100.6	1100.6	1103.9	1105.5
35°	6226.2	5575.0	3621.6	1461.4	1087.5	1057.9	1039.9	1020.2	1016.9	1005.4	1005.4
37.5°	6167.1	5422.5	3185.3	1223.6	1033.3	1012.0	987.4	954.6	936.6	938.2	934.9
40°	6178.6	5322.4	2788.3	1089.1	989.0	966.1	928.4	890.6	879.1	879.1	875.9
42.5°	6308.2	5289.6	2407.8	1018.6	946.4	920.2	872.6	838.1	831.6	829.9	833.2
45°	6606.7	5370.0	2066.6	972.6	910.3	870.9	823.4	792.2	785.7	785.7	784.0
47.5°	7189.0	5630.8	1822.3	943.1	884.1	833.2	784.0	752.9	741.4	738.1	738.1
50°	8094.4	6196.7	1640.2	916.9	851.3	798.8	747.9	711.8	693.8	692.2	690.5
52.5°	9352.4	7079.1	1569.7	897.2	815.2	762.7	706.9	672.5	649.5	644.6	641.3
55°	10823.7	8310.9	1666.4	882.4	777.5	721.7	664.3	628.2	606.9	597.0	595.4
57.5°	12527.8	9790.3	2033.8	862.7	743.0	677.4	621.6	585.6	562.6	551.1	547.8
60°	14058.1	11310.8	2675.2	851.3	713.5	629.8	572.4	539.6	518.3	506.8	505.2
62.5°	15739.3	12760.7	3441.1	882.4	700.4	583.9	526.5	497.0	478.9	467.5	467.5
65°	17535.3	14212.3	3948.0	987.4	720.0	547.8	477.3	452.7	436.3	428.1	426.5
67.5°	18745.8	14714.2	3252.5	1095.7	769.3	508.5	429.7	410.0	400.2	392.0	392.0
69°	18614.6	14079.4	2399.6	1123.5	784.0	488.8	403.5	388.7	375.6	372.3	369.0
70°	18199.6	13356.1	2010.9	1105.5	772.5	470.7	387.1	369.0	357.6	354.3	352.6
72.5°	16210.1	11583.1	1497.5	961.2	657.7	408.4	342.8	326.4	316.6	311.6	311.6
75°	13467.7	9467.2	1169.5	764.3	515.0	344.4	293.6	280.5	272.3	269.0	267.4
77.5°	7548.2	5286.4	839.8	598.7	390.4	278.8	246.0	234.5	226.3	223.1	223.1
80°	2102.7	1510.6	493.7	395.3	265.7	211.6	195.2	187.0	175.5	167.3	172.2
82.5°	792.2	654.4	282.1	237.8	168.9	141.1	136.1	129.6	124.7	113.2	113.2
85°	385.4	318.2	180.4	126.3	93.5	73.8	70.5	67.2	64.0	55.8	57.4
87.5°	132.9	141.1	78.7	45.9	27.9	18.0	14.8	8.2	8.2	8.2	8.2
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)