

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: P454549

Luminaire Tested: **GALN-SA5C-830-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454549  
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-SA5C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA 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: 27730 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

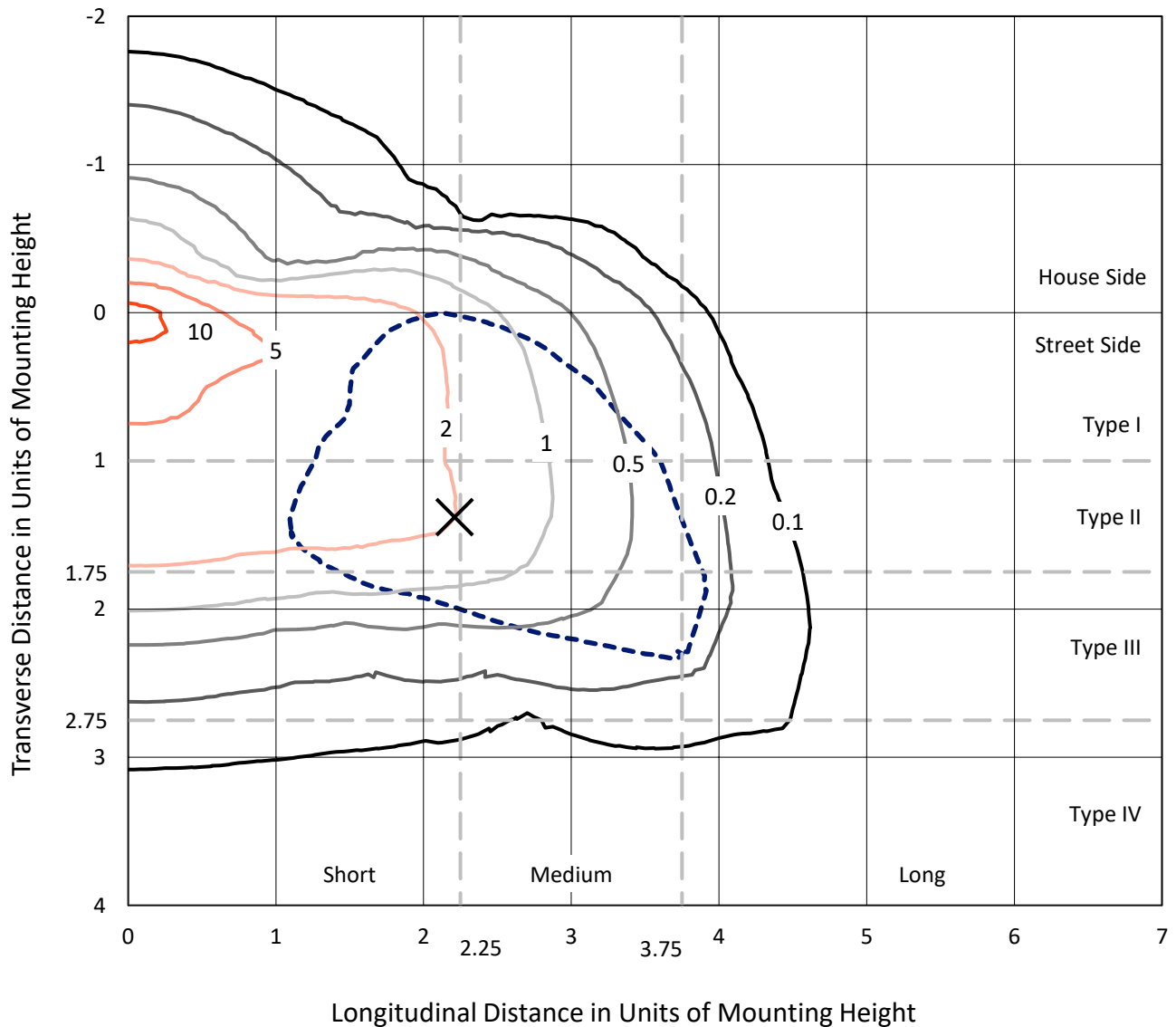
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

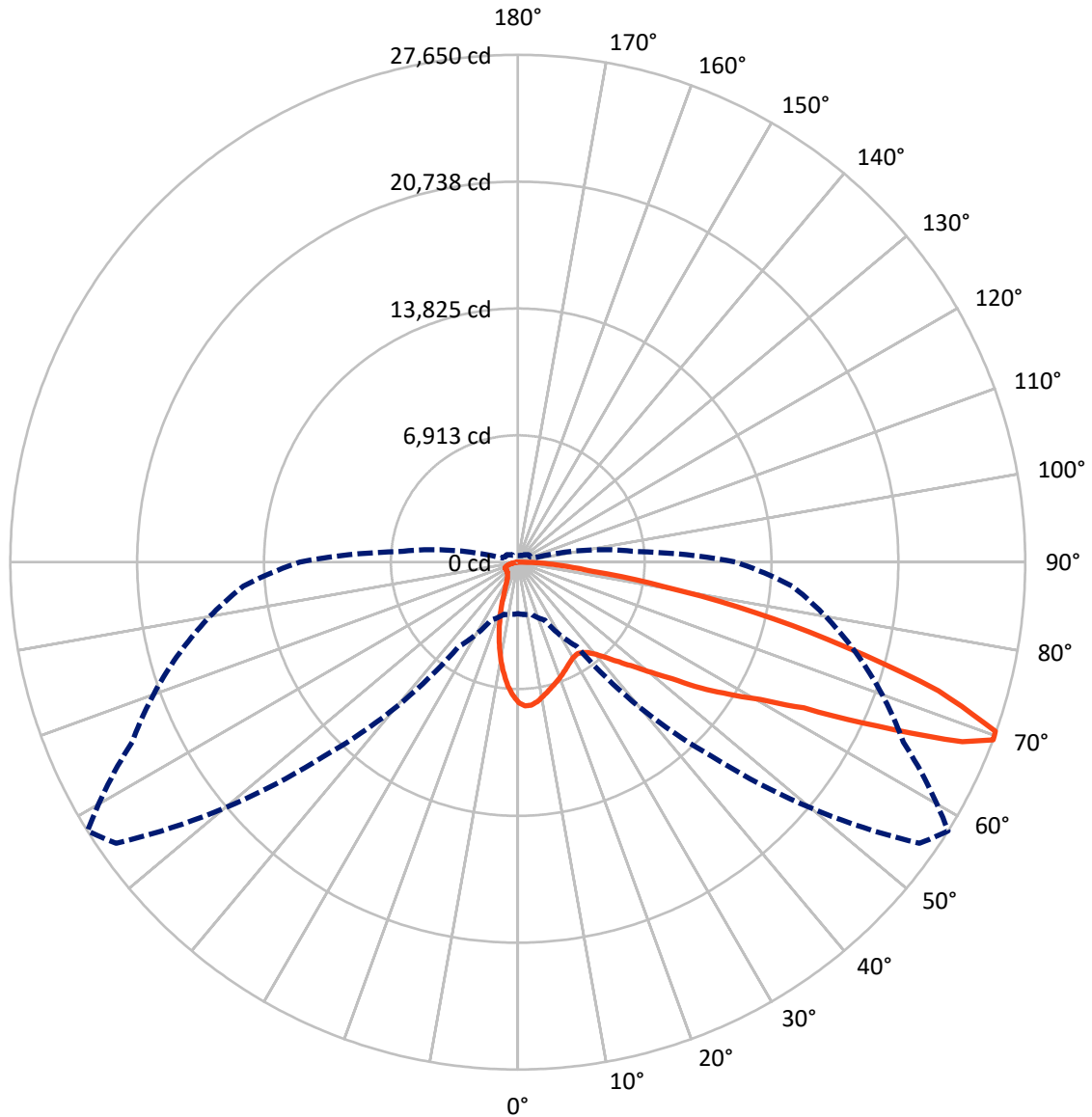
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA5C-830-U-SL3

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA5C-830-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4063.8	0.0	4063.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	23666.2	0.0	23666.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	27730.0	0.0	27730.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.8	2.3
10°-20°	1429.0	5.2
20°-30°	1846.3	6.7
30°-40°	2397.9	8.6
40°-50°	3486.3	12.6
50°-60°	5562.9	20.1
60°-70°	7431.4	26.8
70°-80°	4283.9	15.4
80°-90°	641.6	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°	27730.0	100.0
0°-180°	27730.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454549

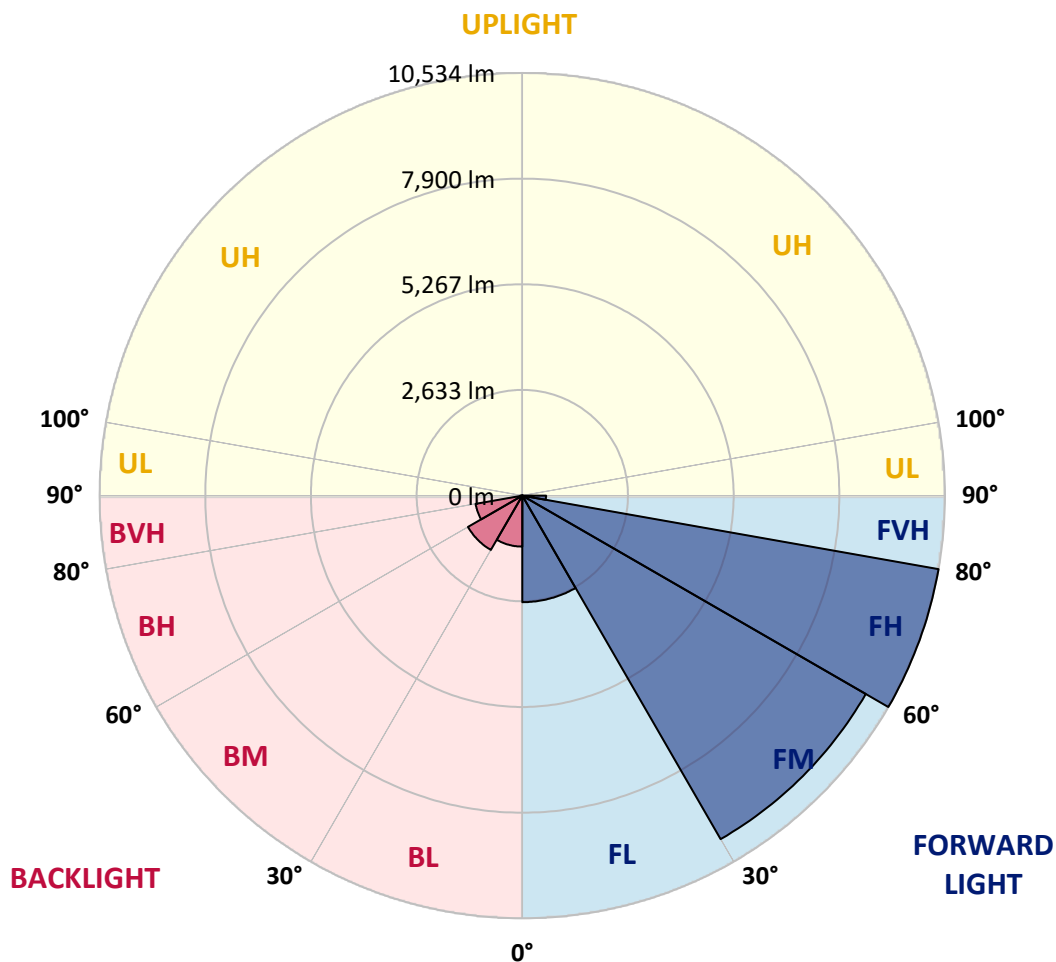
CATALOG NUMBER: GALN-SA5C-830-U-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2655.8	9.6			
FM	(30°-60°)	9884.3	35.6			
FH	(60°-80°)	10533.6	38.0			G4/12000
FVH	(80°-90°)	592.5	2.1			G4/750
BL	(0°-30°)	1270.2	4.6	B3/2500		
BM	(30°-60°)	1562.8	5.6	B2/2500		
BH	(60°-80°)	1181.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	49.2	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°	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9
2.5°	7947.5	7969.2	7963.0	7955.2	7942.9	7908.8	7853.2	7843.9	7808.3	7732.5	7638.2
5°	7825.3	7843.9	7845.4	7856.3	7871.7	7865.5	7825.3	7820.7	7768.1	7666.0	7508.3
7.5°	7406.2	7431.0	7485.1	7545.4	7599.5	7650.6	7662.9	7670.7	7638.2	7520.7	7310.3
10°	6934.5	6959.3	6984.0	7073.7	7206.7	7333.5	7438.7	7452.6	7460.4	7352.1	7095.4
12.5°	6411.8	6462.9	6515.4	6648.4	6826.3	7025.8	7211.4	7240.8	7293.3	7211.4	6909.8
15°	5968.0	6020.6	6096.3	6215.4	6430.4	6718.0	6979.4	7027.3	7130.9	7089.2	6736.6
17.5°	5660.2	5678.8	5731.4	5867.5	6099.4	6402.5	6752.1	6847.9	7013.4	7002.6	6588.1
20°	5417.4	5440.6	5473.1	5556.6	5797.9	6118.0	6540.2	6663.9	6888.1	6925.3	6441.2
22.5°	5315.3	5332.4	5327.7	5372.6	5536.5	5858.2	6325.2	6472.1	6776.8	6872.7	6305.1
25°	5321.5	5337.0	5313.8	5303.0	5400.4	5629.3	6101.0	6288.1	6687.1	6837.1	6181.4
27.5°	5425.2	5436.0	5392.7	5349.4	5357.1	5487.0	5915.4	6122.6	6611.3	6852.6	6077.8
30°	5564.3	5584.4	5556.6	5504.0	5446.8	5453.0	5796.3	6000.5	6575.8	6906.7	6028.3
32.5°	5743.7	5762.3	5749.9	5708.2	5633.9	5552.0	5766.9	5955.6	6578.8	7016.5	6017.5
35°	5932.4	5969.5	5989.6	5986.5	5926.2	5783.9	5882.9	6039.1	6653.1	7200.5	6080.9
37.5°	6145.8	6176.8	6263.4	6319.0	6263.4	6097.9	6144.3	6252.5	6817.0	7466.5	6220.1
40°	6353.1	6399.5	6526.3	6699.5	6677.8	6532.5	6543.3	6614.4	7106.2	7862.4	6492.2
42.5°	6569.6	6625.2	6846.4	7103.1	7154.1	7041.3	7070.6	7134.0	7517.6	8411.5	6959.3
45°	6847.9	6914.4	7186.6	7506.8	7707.8	7638.2	7721.7	7752.6	8068.1	9125.9	7574.8
47.5°	7206.7	7284.1	7619.6	8018.6	8303.2	8366.6	8512.0	8493.4	8750.1	9971.9	8372.8
50°	7811.4	7854.7	8171.7	8578.5	8969.7	9255.9	9413.6	9443.0	9596.1	10794.6	9265.1
52.5°	8530.5	8569.2	8798.1	9153.8	9644.0	10250.3	10640.0	10544.1	10581.2	11796.8	10309.0
55°	9339.4	9404.3	9549.7	9786.3	10421.9	11314.3	12096.8	12120.0	11708.6	12755.6	11309.6
57.5°	9965.7	10075.5	10324.5	10661.6	11467.4	12497.3	13549.0	13564.4	13038.6	13779.4	12413.8
60°	9650.2	9780.1	10349.2	11170.4	12839.1	14561.9	15284.1	15196.0	14333.0	14945.5	13760.8
62.5°	8289.3	8312.5	9139.9	10423.5	13261.3	17324.0	17866.8	17494.1	16060.5	16423.9	15129.5
65°	5364.8	5516.4	6172.1	7970.7	11874.1	18856.6	22391.9	21530.5	18482.3	18101.9	16275.5
67.5°	3386.9	3348.2	3620.4	4551.4	8167.1	17506.5	26253.5	26117.4	21649.6	19161.2	16001.7
69°	2808.5	2851.8	2944.6	3488.9	5620.0	14947.0	26709.7	27650.0	23185.3	19077.7	15007.3
70°	2547.1	2567.2	2664.6	3093.0	4336.4	12519.0	25961.2	27608.3	23788.4	18728.2	14286.6
72.5°	2021.3	2019.7	2186.8	2573.4	3241.5	7146.4	21317.1	23969.3	23114.1	17101.3	11804.5
75°	1535.7	1560.4	1744.5	2177.5	2986.3	3904.9	14875.9	18459.1	18460.7	13507.2	7366.0
77.5°	1107.3	1122.8	1337.7	1828.0	2813.1	3165.7	9908.5	13239.7	12446.3	6189.1	2315.1
80°	725.3	734.6	898.5	1447.5	2536.3	2986.3	5875.2	8103.7	5870.5	1642.4	765.5
82.5°	397.5	443.8	549.0	937.2	2035.2	2759.0	3570.9	4101.3	2202.2	731.5	399.0
85°	199.5	211.9	309.3	547.5	1330.0	2282.6	2486.8	2352.2	1136.7	363.4	207.2
87.5°	58.8	74.2	128.4	211.9	539.7	1189.3	1384.1	1241.8	437.7	131.5	43.3
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°	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9	7662.9
2.5°	7599.5	7571.7	7448.0	7336.6	7234.6	7126.3	7035.1	6954.6	6962.4	6963.9	6882.0
5°	7426.3	7362.9	7127.9	6908.3	6722.7	6487.6	6286.6	6156.6	6091.7	6005.1	6036.0
7.5°	7191.3	7069.1	6742.8	6377.8	6036.0	5731.4	5400.4	5173.1	5027.7	4887.0	4905.5
10°	6948.5	6752.1	6277.3	5794.8	5352.5	4865.3	4443.1	4081.2	3812.1	3711.6	3645.1
12.5°	6699.5	6441.2	5838.1	5196.3	4585.4	4002.4	3403.9	3015.7	2718.8	2561.0	2581.1
15°	6472.1	6158.2	5380.3	4597.8	3804.4	3110.0	2513.1	2143.5	1936.2	1892.9	1917.7
17.5°	6261.8	5850.4	4951.9	4016.3	3089.9	2332.1	1888.3	1679.5	1596.0	1572.8	1571.3
20°	6045.3	5589.1	4471.0	3394.6	2407.9	1807.9	1549.6	1452.2	1436.7	1446.0	1447.5
22.5°	5825.7	5265.9	3976.1	2777.5	1917.7	1478.5	1354.7	1328.5	1340.8	1362.5	1365.6
25°	5623.1	4981.3	3499.7	2236.3	1531.0	1299.1	1238.8	1238.8	1266.6	1299.1	1300.6
27.5°	5456.1	4706.0	3025.0	1775.4	1282.1	1169.2	1149.1	1159.9	1198.5	1223.3	1224.8
30°	5318.4	4449.3	2576.5	1422.8	1127.4	1065.5	1060.9	1079.5	1107.3	1130.5	1132.0
32.5°	5214.8	4223.5	2157.4	1195.5	1020.7	986.7	985.1	999.0	1014.5	1020.7	1026.9
35°	5174.6	4036.4	1773.8	1051.6	949.6	927.9	927.9	926.4	932.5	935.6	938.7
37.5°	5207.1	3892.6	1476.9	958.8	897.0	881.5	872.2	863.0	859.9	859.9	861.4
40°	5344.7	3816.8	1255.8	898.5	859.9	836.7	819.6	808.8	798.0	801.1	804.2
42.5°	5637.0	3830.7	1105.8	858.3	827.4	794.9	770.2	757.8	750.1	759.3	757.8
45°	6102.5	3969.9	1009.9	830.5	794.9	753.1	730.0	717.6	717.6	731.5	736.1
47.5°	6753.6	4235.9	958.8	808.8	770.2	720.7	697.5	688.2	691.3	714.5	716.0
50°	7548.5	4698.3	949.6	798.0	757.8	697.5	671.2	661.9	669.6	694.4	697.5
52.5°	8425.4	5293.7	994.4	799.5	747.0	683.6	649.5	635.6	643.3	663.5	669.6
55°	9464.6	6039.1	1110.4	805.7	731.5	675.8	634.1	603.1	612.4	626.3	627.9
57.5°	10525.5	6979.4	1314.5	807.3	719.1	661.9	607.8	567.6	567.6	576.8	581.5
60°	11821.5	8003.2	1583.6	808.8	720.7	641.8	572.2	527.4	521.2	525.8	527.4
62.5°	13108.2	8859.9	1628.5	804.2	736.1	621.7	533.5	487.2	476.3	474.8	471.7
65°	13675.8	8700.7	1334.6	782.5	753.1	609.3	502.6	448.5	429.9	423.7	423.7
67.5°	12751.0	7359.8	1003.7	753.1	742.3	597.0	473.2	416.0	394.4	382.0	382.0
69°	11881.8	6546.4	901.6	733.0	714.5	576.8	454.7	399.0	372.7	358.8	354.2
70°	11210.6	5986.5	858.3	716.0	688.2	553.6	440.8	386.6	357.2	341.8	338.7
72.5°	8946.6	4696.7	751.6	651.1	586.1	465.5	391.3	348.0	320.1	303.1	298.5
75°	5156.1	2545.6	623.2	566.0	471.7	361.9	331.0	303.1	281.5	266.0	261.4
77.5°	1586.7	983.6	451.6	446.9	346.4	279.9	264.5	253.6	238.2	221.2	218.1
80°	668.1	501.1	306.2	301.6	230.4	194.9	190.2	188.7	182.5	168.6	163.9
82.5°	366.5	283.0	213.4	185.6	139.2	112.9	117.5	119.1	114.4	100.5	91.2
85°	179.4	154.7	103.6	83.5	63.4	40.2	38.7	46.4	43.3	30.9	34.0
87.5°	35.6	43.3	27.8	12.4	6.2	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)