

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: P454404

Luminaire Tested: **GALN-SA5C-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454404  
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-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 31781 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

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

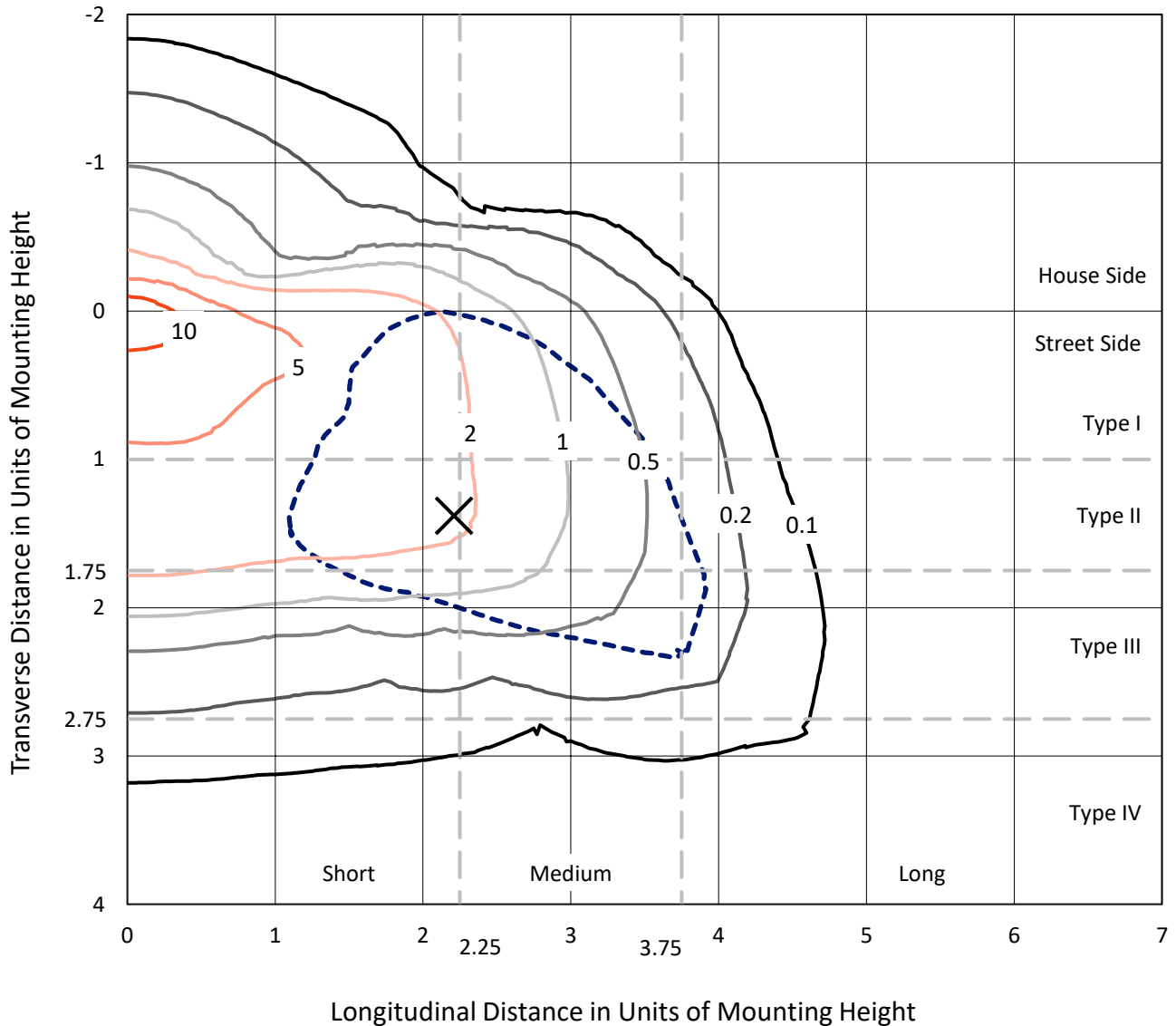




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### Iso-Footcandle Lines of Horizontal Illumination

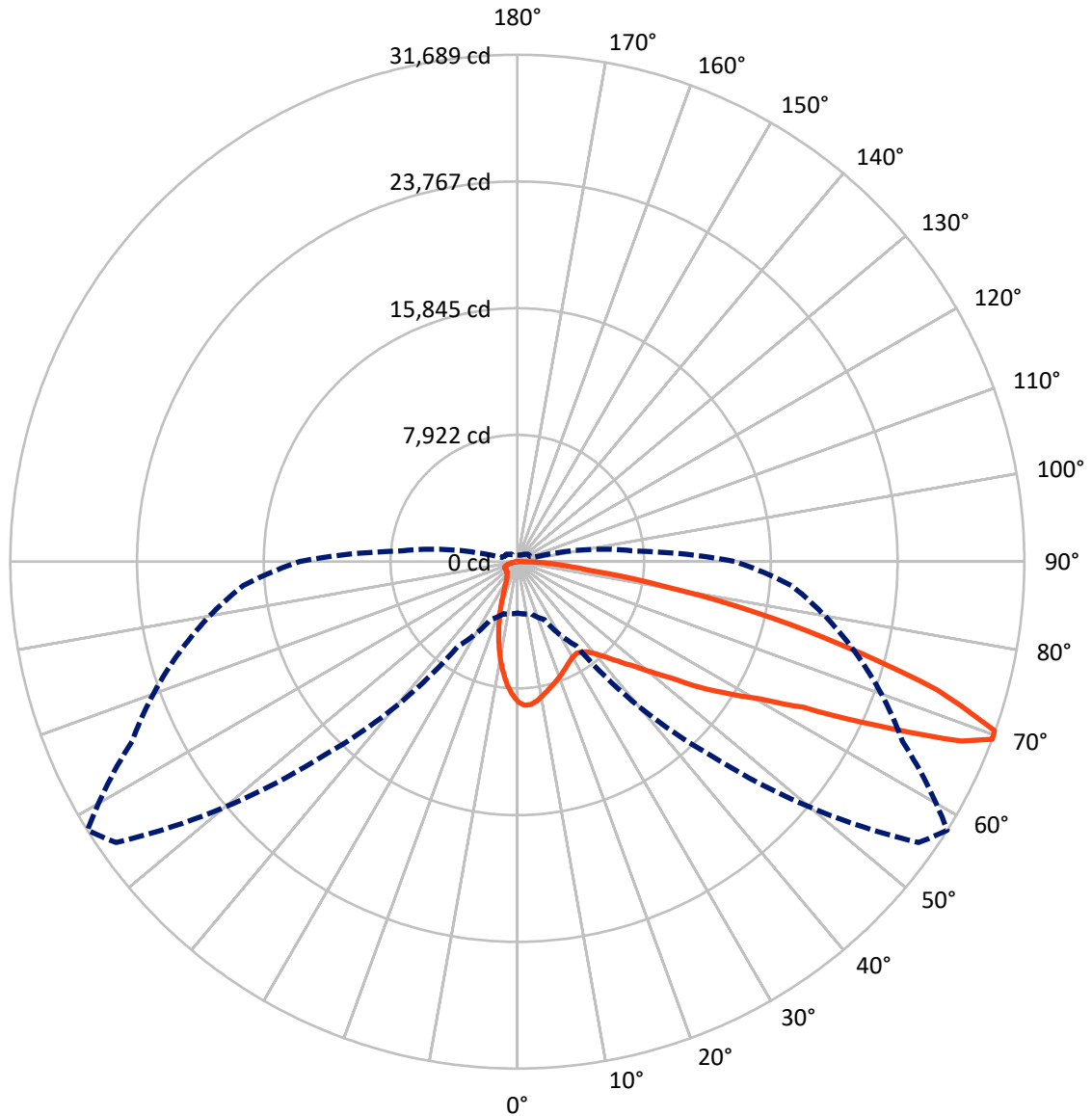
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	4657.5	0.0	4657.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	27123.5	0.0	27123.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	31781.0	0.0	31781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.8	2.3
10°-20°	1637.7	5.2
20°-30°	2116.0	6.7
30°-40°	2748.3	8.6
40°-50°	3995.6	12.6
50°-60°	6375.6	20.1
60°-70°	8517.0	26.8
70°-80°	4909.7	15.4
80°-90°	735.4	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°	31781.0	100.0
0°-180°	31781.0	100.0



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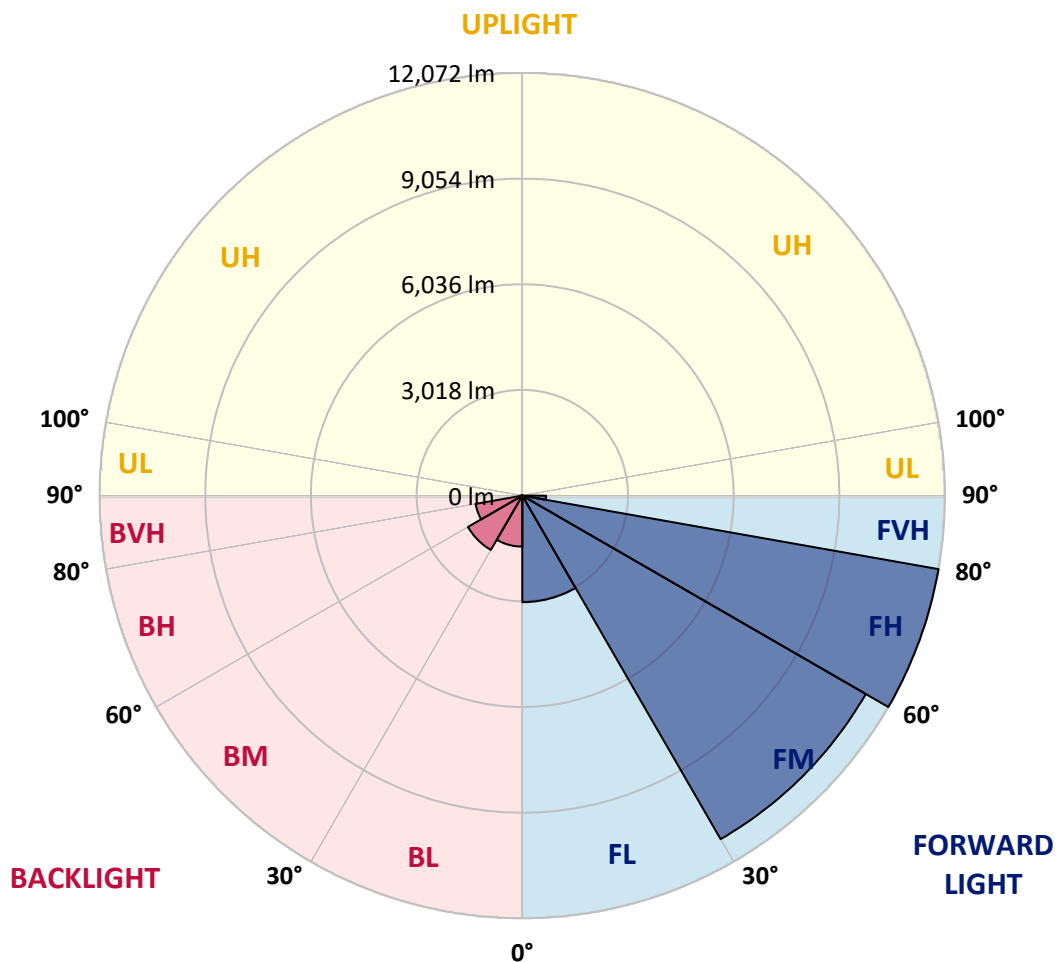
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3043.8	9.6			
FM	(30°-60°)	11328.3	35.6			
FH	(60°-80°)	12072.4	38.0			G5
FVH	(80°-90°)	679.0	2.1			G4/750
BL	(0°-30°)	1455.7	4.6	B3/2500		
BM	(30°-60°)	1791.1	5.6	B2/2500		
BH	(60°-80°)	1354.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	56.3	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4
2.5°	9108.5	9133.3	9126.3	9117.4	9103.2	9064.2	9000.4	8989.8	8949.0	8862.2	8754.0
5°	8968.5	8989.8	8991.6	9004.0	9021.7	9014.6	8968.5	8963.2	8902.9	8786.0	8605.2
7.5°	8488.2	8516.5	8578.6	8647.7	8709.7	8768.2	8782.4	8791.3	8754.0	8619.3	8378.3
10°	7947.6	7976.0	8004.3	8107.1	8259.5	8404.9	8525.4	8541.4	8550.2	8426.1	8131.9
12.5°	7348.5	7407.0	7467.3	7619.7	7823.5	8052.2	8264.9	8298.5	8358.8	8264.9	7919.2
15°	6839.8	6900.1	6986.9	7123.4	7369.8	7699.5	7999.0	8053.9	8172.7	8124.8	7720.7
17.5°	6487.1	6508.4	6568.6	6724.6	6990.5	7337.9	7738.4	7848.3	8038.0	8025.6	7550.6
20°	6208.8	6235.4	6272.6	6368.4	6644.9	7011.7	7495.6	7637.4	7894.4	7937.0	7382.2
22.5°	6091.9	6111.4	6106.0	6157.4	6345.3	6714.0	7249.3	7417.6	7766.8	7876.7	7226.2
25°	6098.9	6116.7	6090.1	6077.7	6189.3	6451.7	6992.2	7206.7	7664.0	7835.9	7084.4
27.5°	6217.7	6230.1	6180.5	6130.8	6139.7	6288.6	6779.6	7017.1	7577.2	7853.7	6965.7
30°	6377.2	6400.3	6368.4	6308.1	6242.5	6249.6	6643.1	6877.0	7536.4	7915.7	6908.9
32.5°	6582.8	6604.1	6589.9	6542.1	6457.0	6363.0	6609.4	6825.6	7539.9	8041.5	6896.5
35°	6799.1	6841.6	6864.6	6861.1	6792.0	6628.9	6742.3	6921.4	7625.0	8252.5	6969.2
37.5°	7043.7	7079.1	7178.4	7242.2	7178.4	6988.7	7041.9	7165.9	7812.9	8557.3	7128.7
40°	7281.2	7334.3	7479.7	7678.2	7653.4	7486.8	7499.2	7580.7	8144.3	9011.1	7440.7
42.5°	7529.3	7593.1	7846.6	8140.8	8199.3	8069.9	8103.6	8176.2	8615.8	9640.3	7976.0
45°	7848.3	7924.5	8236.5	8603.4	8833.8	8754.0	8849.8	8885.2	9246.8	10459.1	8681.4
47.5°	8259.5	8348.2	8732.8	9190.1	9516.2	9588.9	9755.5	9734.2	10028.4	11428.7	9596.0
50°	8952.6	9002.2	9365.5	9831.7	10280.1	10608.0	10788.8	10822.5	10997.9	12371.6	10618.6
52.5°	9776.7	9821.1	10083.4	10491.0	11052.9	11747.7	12194.3	12084.5	12127.0	13520.1	11815.0
55°	10703.7	10778.2	10944.8	11216.0	11944.4	12967.1	13864.0	13890.6	13419.1	14619.0	12961.8
57.5°	11421.6	11547.4	11832.8	12219.2	13142.6	14323.0	15528.3	15546.0	14943.4	15792.4	14227.3
60°	11060.0	11208.9	11861.1	12802.3	14714.7	16689.2	17517.0	17415.9	16426.9	17128.8	15771.1
62.5°	9500.2	9526.8	10475.1	11946.2	15198.6	19854.8	20476.9	20049.8	18406.7	18823.2	17339.7
65°	6148.6	6322.3	7073.8	9135.1	13608.7	21611.3	25663.1	24675.8	21182.4	20746.3	18653.1
67.5°	3881.6	3837.3	4149.3	5216.3	9360.2	20063.9	30088.8	29932.9	24812.3	21960.5	18339.4
69°	3218.7	3268.4	3374.7	3998.6	6441.0	17130.6	30611.7	31689.3	26572.3	21864.7	17199.7
70°	2919.2	2942.2	3053.9	3544.9	4969.9	14347.8	29753.8	31641.5	27263.6	21464.2	16373.7
72.5°	2316.6	2314.8	2506.2	2949.3	3715.0	8190.4	24431.2	27470.9	26490.8	19599.6	13529.0
75°	1760.0	1788.4	1999.3	2495.6	3422.6	4475.4	17049.0	21155.8	21157.5	15480.4	8442.1
77.5°	1269.1	1286.8	1533.2	2095.0	3224.1	3628.2	11356.0	15173.8	14264.5	7093.3	2653.3
80°	831.3	841.9	1029.8	1659.0	2906.8	3422.6	6733.5	9287.6	6728.2	1882.3	877.4
82.5°	455.5	508.7	629.2	1074.1	2332.5	3162.0	4092.5	4700.5	2523.9	838.4	457.3
85°	228.6	242.8	354.5	627.4	1524.3	2616.1	2850.1	2695.9	1302.7	416.5	237.5
87.5°	67.4	85.1	147.1	242.8	618.6	1363.0	1586.3	1423.3	501.6	150.7	49.6
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°	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4	8782.4
2.5°	8709.7	8677.8	8536.0	8408.4	8291.4	8167.4	8062.8	7970.6	7979.5	7981.3	7887.3
5°	8511.2	8438.6	8169.1	7917.5	7704.8	7435.4	7204.9	7056.1	6981.6	6882.4	6917.8
7.5°	8241.8	8101.8	7727.8	7309.5	6917.8	6568.6	6189.3	5928.8	5762.2	5600.9	5622.2
10°	7963.5	7738.4	7194.3	6641.3	6134.4	5576.1	5092.2	4677.5	4369.0	4253.8	4177.6
12.5°	7678.2	7382.2	6690.9	5955.4	5255.3	4587.1	3901.1	3456.2	3115.9	2935.1	2958.2
15°	7417.6	7057.8	6166.3	5269.4	4360.2	3564.4	2880.2	2456.6	2219.1	2169.5	2197.8
17.5°	7176.6	6705.1	5675.3	4603.0	3541.3	2672.8	2164.1	1924.9	1829.2	1802.6	1800.8
20°	6928.4	6405.6	5124.1	3890.5	2759.7	2072.0	1776.0	1664.3	1646.6	1657.2	1659.0
22.5°	6676.8	6035.1	4556.9	3183.3	2197.8	1694.4	1552.7	1522.5	1536.7	1561.5	1565.1
25°	6444.6	5709.0	4011.0	2562.9	1754.7	1488.8	1419.7	1419.7	1451.6	1488.8	1490.6
27.5°	6253.1	5393.5	3466.9	2034.8	1469.3	1340.0	1316.9	1329.3	1373.6	1402.0	1403.8
30°	6095.4	5099.3	2952.9	1630.6	1292.1	1221.2	1215.9	1237.2	1269.1	1295.6	1297.4
32.5°	5976.6	4840.5	2472.5	1370.1	1169.8	1130.8	1129.0	1145.0	1162.7	1169.8	1176.9
35°	5930.6	4626.1	2033.0	1205.3	1088.3	1063.5	1063.5	1061.7	1068.8	1072.3	1075.9
37.5°	5967.8	4461.2	1692.7	1098.9	1028.0	1010.3	999.7	989.0	985.5	985.5	987.2
40°	6125.5	4374.4	1439.2	1029.8	985.5	958.9	939.4	927.0	914.6	918.1	921.7
42.5°	6460.5	4390.3	1267.3	983.7	948.3	911.0	882.7	868.5	859.6	870.3	868.5
45°	6994.0	4549.8	1157.4	951.8	911.0	863.2	836.6	822.4	822.4	838.4	843.7
47.5°	7740.2	4854.7	1098.9	927.0	882.7	826.0	799.4	788.7	792.3	818.9	820.6
50°	8651.2	5384.7	1088.3	914.6	868.5	799.4	769.2	758.6	767.5	795.8	799.4
52.5°	9656.2	6067.0	1139.7	916.3	856.1	783.4	744.4	728.5	737.3	760.4	767.5
55°	10847.3	6921.4	1272.6	923.4	838.4	774.6	726.7	691.2	701.9	717.8	719.6
57.5°	12063.2	7999.0	1506.6	925.2	824.2	758.6	696.6	650.5	650.5	661.1	666.4
60°	13548.5	9172.3	1815.0	927.0	826.0	735.6	655.8	604.4	597.3	602.6	604.4
62.5°	15023.1	10154.3	1866.4	921.7	843.7	712.5	611.5	558.3	545.9	544.1	540.6
65°	15673.6	9971.7	1529.6	896.9	863.2	698.3	576.0	514.0	492.7	485.6	485.6
67.5°	14613.7	8435.0	1150.3	863.2	850.8	684.2	542.4	476.8	452.0	437.8	437.8
69°	13617.6	7502.7	1033.3	840.1	818.9	661.1	521.1	457.3	427.2	411.2	405.9
70°	12848.4	6861.1	983.7	820.6	788.7	634.5	505.1	443.1	409.4	391.7	388.2
72.5°	10253.5	5382.9	861.4	746.2	671.8	533.5	448.4	398.8	366.9	347.4	342.1
75°	5909.3	2917.4	714.3	648.7	540.6	414.7	379.3	347.4	322.6	304.9	299.5
77.5°	1818.5	1127.3	517.6	512.2	397.0	320.8	303.1	290.7	273.0	253.5	249.9
80°	765.7	574.3	350.9	345.6	264.1	223.3	218.0	216.2	209.1	193.2	187.9
82.5°	420.1	324.4	244.6	212.7	159.5	129.4	134.7	136.5	131.2	115.2	104.6
85°	205.6	177.2	118.8	95.7	72.7	46.1	44.3	53.2	49.6	35.4	39.0
87.5°	40.8	49.6	31.9	14.2	7.1	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)