

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: P459129

Luminaire Tested: **GALN-SA6B-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459129  
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-SA6B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA 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: 31375 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

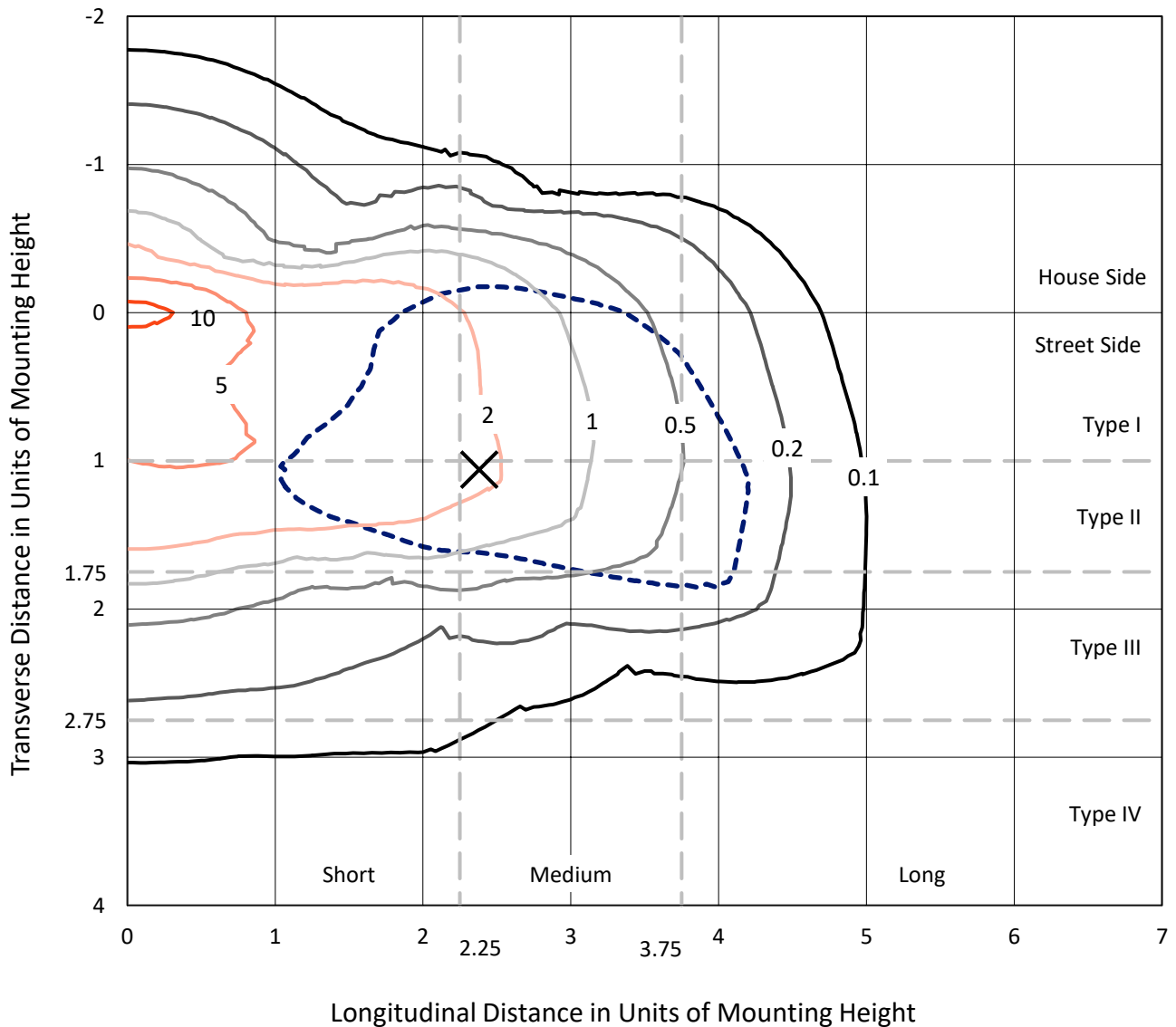
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

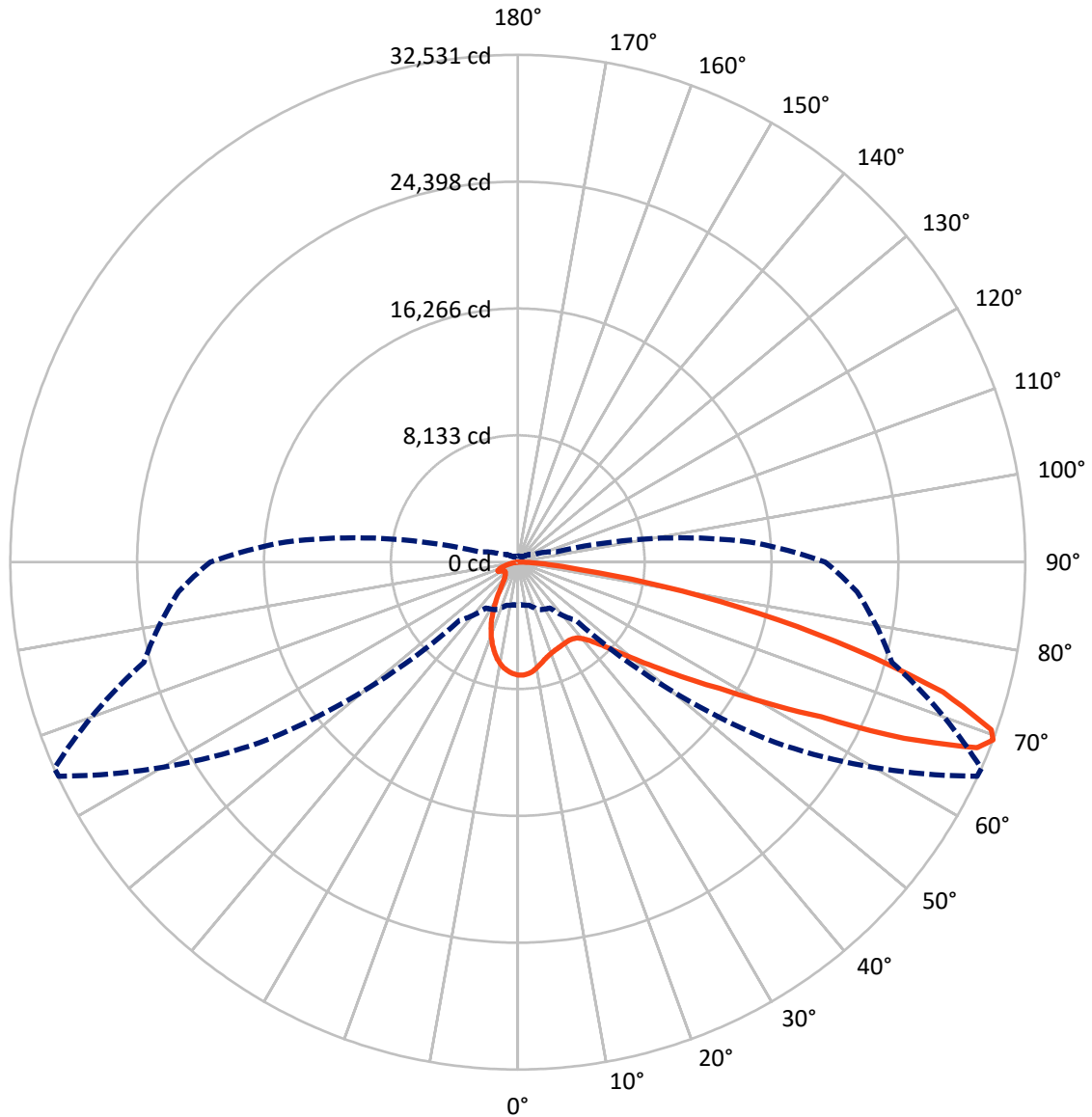
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	5900.5	0.0	5900.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25474.5	0.0	25474.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	31375.0	0.0	31375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.2	2.0
10°-20°	1492.4	4.8
20°-30°	2031.7	6.5
30°-40°	2730.1	8.7
40°-50°	4076.5	13.0
50°-60°	6484.4	20.7
60°-70°	7975.4	25.4
70°-80°	5189.2	16.5
80°-90°	766.3	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°	31375.0	100.0
0°-180°	31375.0	100.0

**Coefficient of Utilization**



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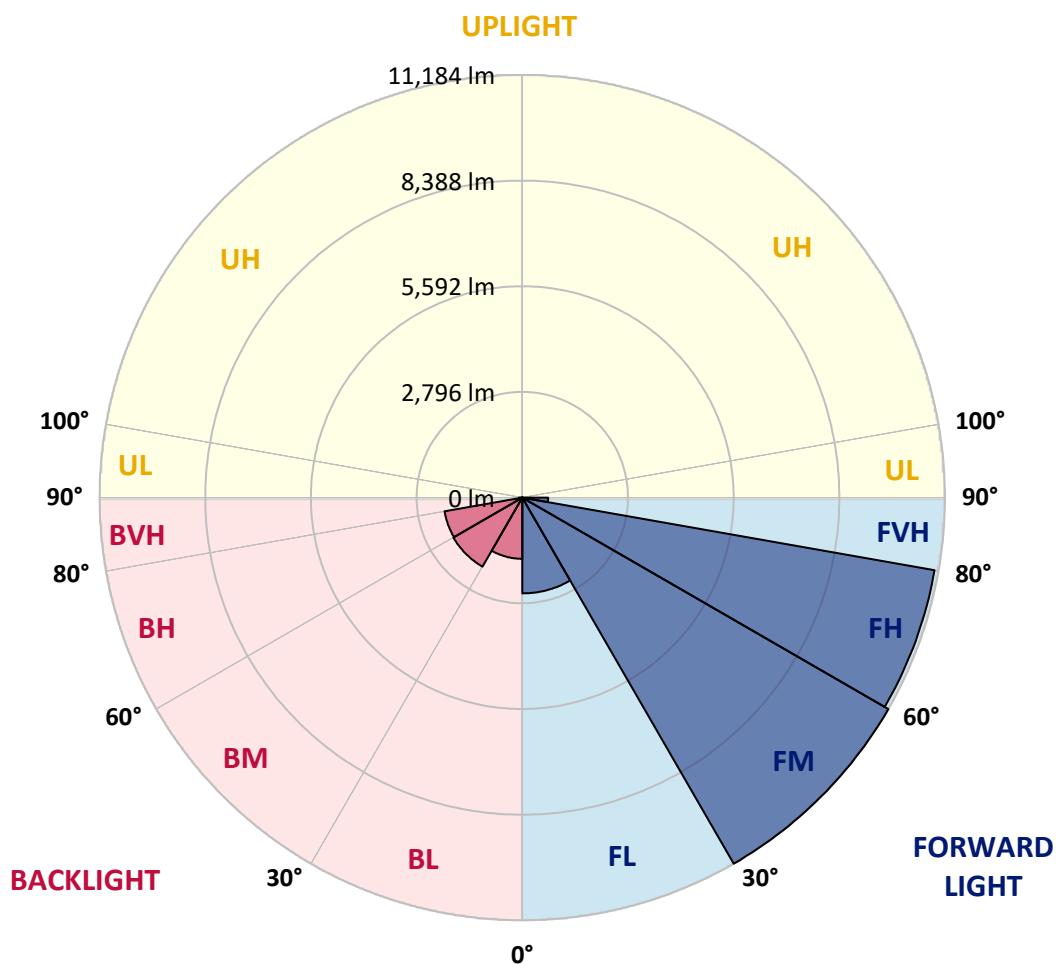
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2533.5	8.1			
FM	(30°-60°)	11184.2	35.6			
FH	(60°-80°)	11075.5	35.3			G4/12000
FVH	(80°-90°)	681.3	2.2			G4/750
BL	(0°-30°)	1619.7	5.2	B3/2500		
BM	(30°-60°)	2106.7	6.7	B2/2500		
BH	(60°-80°)	2089.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	85.0	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°	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4
2.5°	6991.7	7019.5	7050.8	7085.5	7151.5	7188.0	7214.1	7243.6	7247.1	7262.7	7250.6
5°	6475.6	6508.7	6555.6	6621.6	6720.6	6875.3	7035.1	7165.4	7181.1	7254.0	7274.9
7.5°	6044.7	6063.9	6102.1	6208.1	6348.8	6520.8	6753.6	7017.7	7056.0	7229.7	7290.5
10°	5693.8	5712.9	5758.1	5867.5	6006.5	6222.0	6477.4	6824.9	6856.2	7155.0	7294.0
12.5°	5431.4	5448.8	5497.4	5605.2	5765.0	5966.6	6248.0	6616.4	6661.6	7056.0	7261.0
15°	5231.6	5264.6	5304.6	5393.2	5561.7	5756.3	6029.1	6425.3	6461.7	6951.7	7238.4
17.5°	5146.5	5162.1	5189.9	5271.6	5394.9	5586.1	5860.6	6275.8	6319.3	6878.7	7233.2
20°	5149.9	5165.6	5170.8	5216.0	5304.6	5469.6	5740.7	6157.7	6209.8	6814.5	7241.9
22.5°	5268.1	5269.8	5250.7	5235.1	5269.8	5407.1	5655.6	6069.1	6129.9	6786.7	7248.8
25°	5450.5	5481.8	5454.0	5381.0	5316.7	5382.8	5622.5	6020.4	6077.8	6746.7	7240.1
27.5°	5745.9	5751.1	5728.5	5629.5	5462.7	5414.0	5608.6	5983.9	6032.6	6717.2	7196.7
30°	6142.0	6126.4	6105.6	5996.1	5733.7	5533.9	5638.2	5950.9	6001.3	6673.7	7144.6
32.5°	6543.4	6592.1	6572.9	6444.4	6103.8	5766.7	5733.7	5947.4	5989.1	6640.7	7087.2
35°	6969.1	6991.7	7082.0	7016.0	6666.8	6143.8	5912.7	6001.3	6034.3	6642.4	7047.3
37.5°	7302.7	7363.5	7575.5	7632.8	7304.4	6642.4	6202.9	6154.2	6168.1	6727.6	7062.9
40°	7705.8	7810.0	8082.8	8317.4	8101.9	7290.5	6696.3	6437.4	6454.8	6932.6	7165.4
42.5°	8216.6	8289.6	8656.2	8974.2	8939.4	8147.1	7294.0	6901.3	6910.0	7340.9	7452.1
45°	8814.3	8918.6	9330.4	9808.2	9889.8	9116.6	8157.5	7603.3	7598.1	7975.1	7987.3
47.5°	9578.8	9643.1	10051.4	10572.7	10902.8	10334.6	9205.3	8611.0	8555.4	8899.5	8800.4
50°	10282.5	10383.3	10692.6	11262.5	12084.3	11761.1	10583.1	9917.6	9787.3	10108.8	9942.0
52.5°	10577.9	10683.9	10944.5	11651.6	13097.2	13606.3	12332.7	11476.2	11259.0	11505.7	11444.9
55°	10065.3	10202.6	10445.8	11305.9	13542.0	15734.8	14692.3	13277.9	13119.8	13013.8	13031.2
57.5°	8687.5	8817.8	9146.2	10094.9	13010.4	17279.4	18061.3	15594.0	15255.2	14767.0	14850.4
60°	6612.9	6694.6	6864.8	7916.0	11434.5	17680.8	21887.2	18521.7	18306.3	16513.2	16572.2
62.5°	4696.5	4788.5	4906.7	5431.4	8371.3	16549.7	24882.7	22610.0	21840.3	18321.9	18264.6
65°	3813.8	3751.3	3893.7	4138.7	4911.9	12826.2	25556.8	28284.7	27224.8	20704.0	19908.2
67.5°	3136.2	3070.2	3210.9	3647.0	3735.6	7445.2	23127.8	31968.2	31756.2	23294.6	21578.0
69°	2776.5	2741.8	2865.1	3362.1	3586.2	5287.2	20148.0	32480.8	32531.1	24821.9	21835.1
70°	2502.0	2515.9	2635.8	3217.8	3518.4	4359.4	17220.3	31773.6	32201.0	25584.6	21557.1
72.5°	1841.7	1871.3	2038.1	2665.3	3454.1	3699.1	10247.8	27753.0	28508.8	25629.8	19720.6
75°	1287.5	1273.6	1421.3	2006.8	3263.0	3666.1	6018.7	21463.3	22319.9	22153.1	16570.5
77.5°	842.7	865.3	983.4	1417.8	2745.2	3638.3	3923.3	15227.4	15783.4	14815.6	9801.2
80°	594.2	592.5	658.5	967.8	2036.3	3495.8	3212.6	9597.9	9457.2	5822.3	2906.8
82.5°	340.5	364.9	441.3	681.1	1362.2	3077.1	2955.5	4590.5	4190.8	1659.3	981.7
85°	189.4	198.1	262.4	411.8	795.8	2317.8	2580.2	2088.5	1970.3	693.3	422.2
87.5°	60.8	66.0	109.5	208.5	361.4	1094.6	1461.2	964.3	889.6	250.2	170.3
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°	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4	7245.4
2.5°	7255.8	7276.6	7221.0	7167.2	7118.5	7050.8	6989.9	6939.6	6904.8	6899.6	6882.2
5°	7280.1	7281.8	7175.9	7033.4	6894.4	6741.5	6583.4	6470.4	6364.4	6305.4	6275.8
7.5°	7297.5	7281.8	7090.7	6859.6	6592.1	6314.1	6036.1	5813.7	5641.7	5573.9	5600.0
10°	7290.5	7241.9	6962.1	6592.1	6202.9	5787.6	5388.0	5075.2	4788.5	4640.9	4644.3
12.5°	7252.3	7172.4	6771.0	6291.5	5719.8	5163.8	4552.2	4130.0	3798.2	3601.8	3541.0
15°	7219.3	7080.3	6546.9	5883.2	5172.5	4378.5	3633.1	3111.9	2833.9	2679.2	2677.5
17.5°	7184.5	6991.7	6301.9	5450.5	4543.6	3521.9	2740.0	2342.1	2211.8	2227.5	2201.4
20°	7148.1	6887.4	6046.5	4969.2	3777.3	2627.1	2052.0	1890.4	1926.9	1998.1	2008.5
22.5°	7106.4	6776.2	5772.0	4439.3	2971.1	1977.3	1664.5	1640.2	1734.0	1845.2	1860.9
25°	7042.1	6637.2	5426.2	3885.0	2291.8	1593.3	1457.8	1475.1	1567.2	1661.0	1671.5
27.5°	6951.7	6465.2	5077.0	3193.5	1721.9	1367.4	1332.7	1355.2	1400.4	1457.8	1471.7
30°	6830.1	6270.6	4675.6	2595.8	1379.6	1254.5	1240.6	1252.7	1278.8	1303.1	1310.1
32.5°	6708.5	6083.0	4270.8	1987.7	1230.1	1179.8	1165.9	1165.9	1165.9	1169.3	1171.1
35°	6595.5	5905.7	3836.4	1548.1	1152.0	1120.7	1101.6	1080.7	1077.2	1065.1	1065.1
37.5°	6533.0	5744.2	3374.2	1296.2	1094.6	1072.0	1046.0	1011.2	992.1	993.8	990.4
40°	6545.1	5638.2	2953.7	1153.7	1047.7	1023.4	983.4	943.5	931.3	931.3	927.8
42.5°	6682.4	5603.4	2550.6	1079.0	1002.5	974.7	924.3	887.9	880.9	879.2	882.6
45°	6998.6	5688.6	2189.2	1030.3	964.3	922.6	872.2	839.2	832.3	832.3	830.5
47.5°	7615.4	5964.8	1930.4	999.1	936.5	882.6	830.5	797.5	785.3	781.9	781.9
50°	8574.5	6564.3	1737.5	971.3	901.8	846.2	792.3	754.1	735.0	733.2	731.5
52.5°	9907.2	7499.0	1662.8	950.4	863.5	807.9	748.9	712.4	688.0	682.8	679.4
55°	11465.7	8803.9	1765.3	934.8	823.6	764.5	703.7	665.5	642.9	632.4	630.7
57.5°	13271.0	10371.1	2154.5	913.9	787.1	717.6	658.5	620.3	596.0	583.8	580.3
60°	14892.1	11981.8	2833.9	901.8	755.8	667.2	606.4	571.6	549.0	536.9	535.1
62.5°	16673.0	13517.7	3645.3	934.8	741.9	618.5	557.7	526.5	507.3	495.2	495.2
65°	18575.6	15055.4	4182.2	1046.0	762.8	580.3	505.6	479.5	462.2	453.5	451.7
67.5°	19857.8	15587.1	3445.5	1160.6	814.9	538.6	455.2	434.4	423.9	415.3	415.3
69°	19718.8	14914.7	2542.0	1190.2	830.5	517.8	427.4	411.8	397.9	394.4	390.9
70°	19279.3	14148.4	2130.2	1171.1	818.4	498.7	410.0	390.9	378.8	375.3	373.6
72.5°	17171.7	12270.2	1586.3	1018.2	696.7	432.6	363.1	345.8	335.3	330.1	330.1
75°	14266.6	10028.8	1238.8	809.7	545.6	364.9	311.0	297.1	288.4	284.9	283.2
77.5°	7996.0	5600.0	889.6	634.2	413.5	295.4	260.6	248.5	239.8	236.3	236.3
80°	2227.5	1600.2	523.0	418.7	281.5	224.1	206.8	198.1	185.9	177.2	182.4
82.5°	839.2	693.3	298.8	251.9	179.0	149.4	144.2	137.3	132.0	119.9	119.9
85°	408.3	337.1	191.1	133.8	99.0	78.2	74.7	71.2	67.8	59.1	60.8
87.5°	140.7	149.4	83.4	48.6	29.5	19.1	15.6	8.7	8.7	8.7	8.7
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)