

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: P456026

Luminaire Tested: **GALN-SA7B-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456026  
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-SA7B-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 36029 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

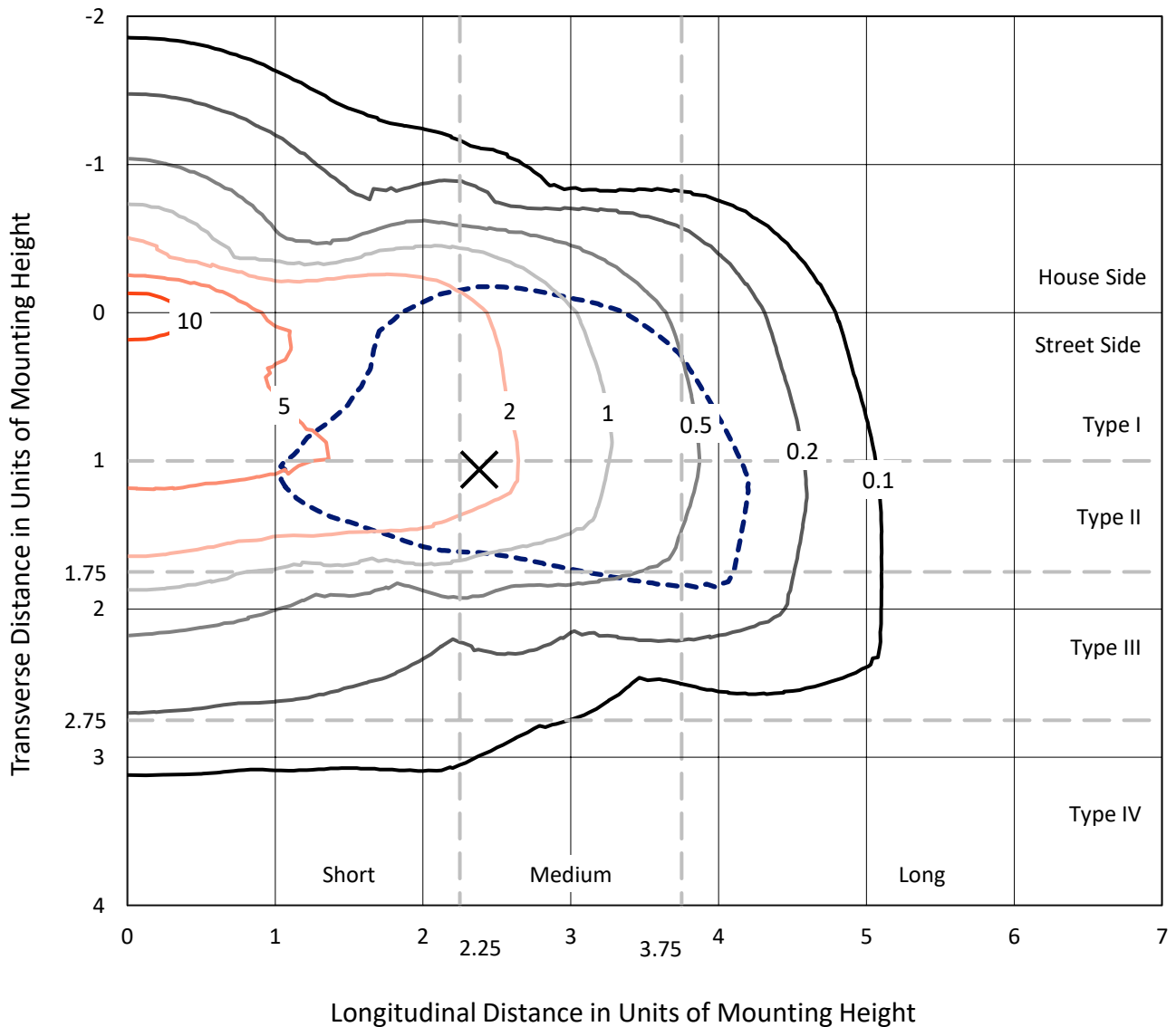
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

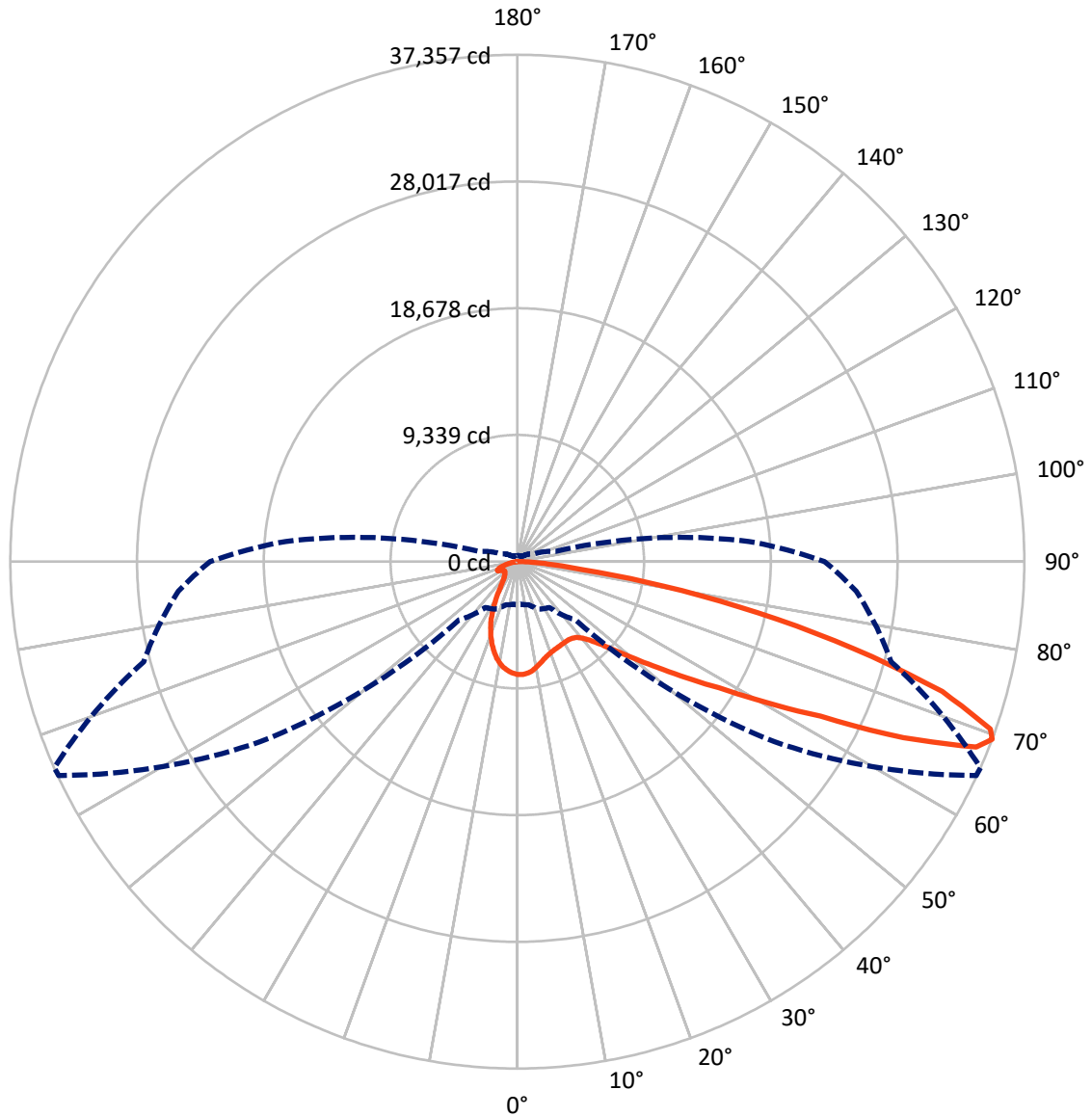
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	6775.7	0.0	6775.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	29253.3	0.0	29253.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	36029.0	0.0	36029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	722.5	2.0
10°-20°	1713.7	4.8
20°-30°	2333.0	6.5
30°-40°	3135.1	8.7
40°-50°	4681.2	13.0
50°-60°	7446.2	20.7
60°-70°	9158.4	25.4
70°-80°	5958.9	16.5
80°-90°	879.9	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°	36029.0	100.0
0°-180°	36029.0	100.0

**Coefficient of Utilization**



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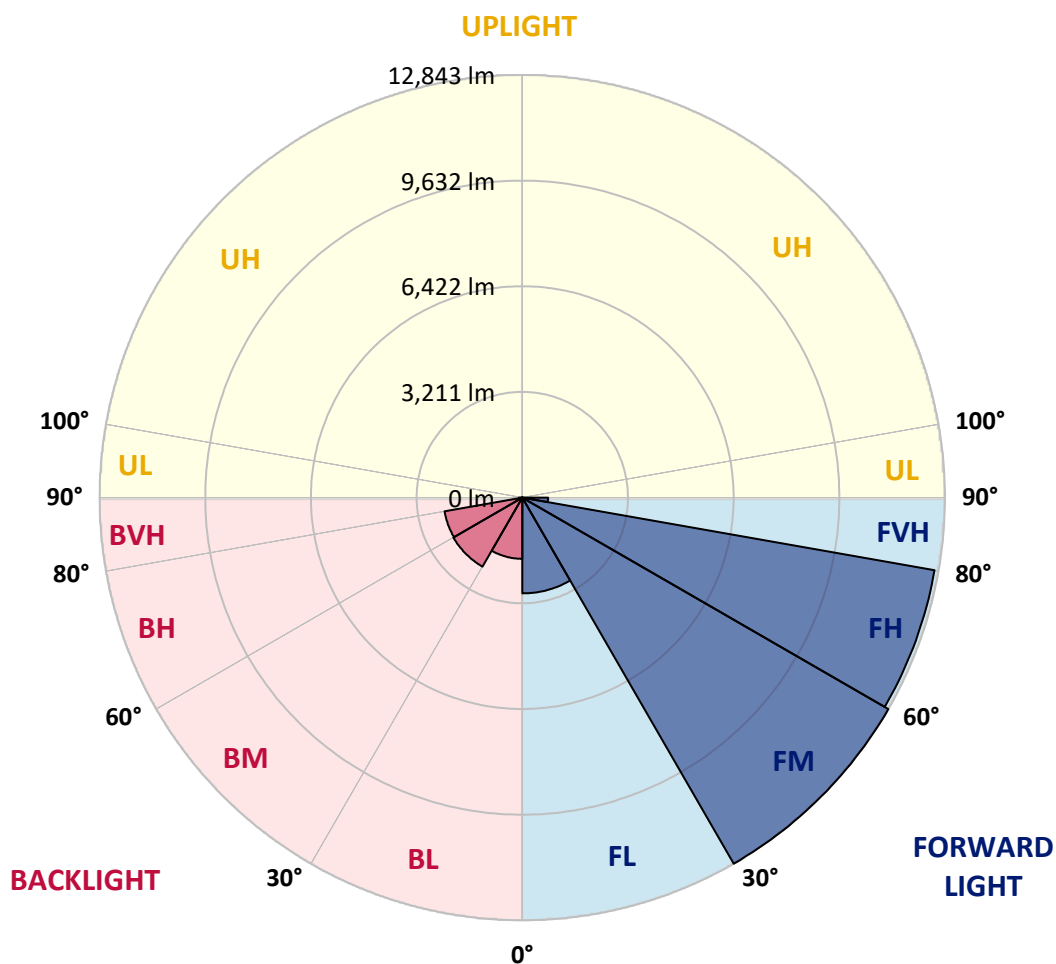
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2909.3	8.1			
FM	(30°-60°)	12843.3	35.6			
FH	(60°-80°)	12718.4	35.3			G5
FVH	(80°-90°)	782.3	2.2			G5
BL	(0°-30°)	1860.0	5.2	B3/2500		
BM	(30°-60°)	2419.2	6.7	B2/2500		
BH	(60°-80°)	2398.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	97.6	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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1
2.5°	8028.8	8060.7	8096.6	8136.5	8212.4	8254.3	8284.2	8318.1	8322.1	8340.0	8326.1
5°	7436.2	7474.1	7528.0	7603.8	7717.5	7895.1	8078.7	8228.3	8246.3	8330.1	8354.0
7.5°	6941.4	6963.3	7007.2	7128.9	7290.6	7488.1	7755.4	8058.7	8102.6	8302.1	8372.0
10°	6538.4	6560.3	6612.2	6737.9	6897.5	7144.9	7438.2	7837.3	7873.2	8216.3	8376.0
12.5°	6237.1	6257.0	6312.9	6436.6	6620.2	6851.6	7174.8	7597.8	7649.7	8102.6	8338.1
15°	6007.6	6045.5	6091.4	6193.2	6386.7	6610.2	6923.4	7378.3	7420.2	7982.9	8312.1
17.5°	5909.9	5927.8	5959.7	6053.5	6195.2	6414.7	6729.9	7206.8	7256.6	7899.1	8306.1
20°	5913.9	5931.8	5937.8	5989.7	6091.4	6281.0	6592.2	7071.1	7130.9	7825.3	8316.1
22.5°	6049.5	6051.5	6029.6	6011.6	6051.5	6209.1	6494.5	6969.3	7039.2	7793.4	8324.1
25°	6259.0	6294.9	6263.0	6179.2	6105.4	6181.2	6456.6	6913.5	6979.3	7747.5	8314.1
27.5°	6598.2	6604.2	6578.3	6464.5	6273.0	6217.1	6440.6	6871.6	6927.4	7713.5	8264.2
30°	7053.1	7035.2	7011.2	6885.5	6584.2	6354.8	6474.5	6833.7	6891.5	7663.7	8204.4
32.5°	7514.0	7569.9	7547.9	7400.3	7009.2	6622.2	6584.2	6829.7	6877.5	7625.8	8138.5
35°	8002.9	8028.8	8132.5	8056.7	7655.7	7055.1	6789.8	6891.5	6929.4	7627.8	8092.6
37.5°	8385.9	8455.8	8699.2	8765.0	8387.9	7627.8	7123.0	7067.1	7083.1	7725.5	8110.6
40°	8848.8	8968.5	9281.8	9551.2	9303.7	8372.0	7689.6	7392.3	7412.3	7961.0	8228.3
42.5°	9435.4	9519.2	9940.2	10305.3	10265.4	9355.6	8376.0	7925.0	7935.0	8429.8	8557.5
45°	10121.8	10241.5	10714.4	11263.1	11356.8	10469.0	9367.6	8731.1	8725.1	9158.1	9172.1
47.5°	10999.7	11073.5	11542.4	12141.0	12520.1	11867.6	10570.7	9888.3	9824.5	10219.6	10105.8
50°	11807.8	11923.5	12278.6	12933.1	13876.8	13505.7	12152.9	11388.8	11239.1	11608.2	11416.7
52.5°	12146.9	12268.7	12567.9	13380.0	15040.0	15624.6	14162.1	13178.5	12929.1	13212.4	13142.6
55°	11558.4	11716.0	11995.3	12982.9	15550.8	18068.8	16871.6	15247.5	15066.0	14944.3	14964.2
57.5°	9976.1	10125.8	10502.9	11592.3	14940.3	19842.5	20740.4	17907.2	17518.1	16957.4	17053.2
60°	7593.8	7687.6	7883.1	9090.3	13130.6	20303.4	25133.9	21269.1	21021.7	18962.6	19030.5
62.5°	5393.1	5498.8	5634.5	6237.1	9613.0	19004.5	28573.6	25963.9	25080.0	21039.7	20973.8
65°	4379.5	4307.7	4471.3	4752.6	5640.5	14728.8	29347.8	32480.3	31263.2	23775.1	22861.3
67.5°	3601.4	3525.6	3687.2	4188.0	4289.7	8549.5	26558.5	36710.2	36466.8	26750.0	24778.7
69°	3188.4	3148.5	3290.1	3860.8	4118.1	6071.5	23136.7	37298.8	37356.6	28503.8	25074.0
70°	2873.1	2889.1	3026.8	3695.2	4040.3	5006.0	19774.7	36486.7	36977.5	29379.7	24754.8
72.5°	2114.9	2148.9	2340.4	3060.7	3966.5	4247.8	11767.8	31869.8	32737.7	29431.6	22645.8
75°	1478.5	1462.5	1632.1	2304.5	3747.0	4209.9	6911.5	24647.0	25630.7	25439.1	19028.5
77.5°	967.7	993.6	1129.3	1628.1	3152.5	4178.0	4505.2	17486.2	18124.6	17013.3	11255.1
80°	682.4	680.4	756.2	1111.3	2338.4	4014.4	3689.2	11021.6	10860.0	6686.0	3338.0
82.5°	391.1	419.0	506.8	782.1	1564.3	3533.5	3393.9	5271.4	4812.5	1905.4	1127.3
85°	217.5	227.5	301.3	472.9	913.8	2661.6	2962.9	2398.3	2262.6	796.1	484.8
87.5°	69.8	75.8	125.7	239.4	415.0	1257.0	1678.0	1107.4	1021.6	287.3	195.5
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°	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1	8320.1
2.5°	8332.1	8356.0	8292.2	8230.3	8174.4	8096.6	8026.8	7968.9	7929.0	7923.0	7903.1
5°	8360.0	8362.0	8240.3	8076.7	7917.1	7741.5	7559.9	7430.2	7308.5	7240.7	7206.8
7.5°	8380.0	8362.0	8142.5	7877.2	7569.9	7250.7	6931.4	6676.0	6478.5	6400.7	6430.6
10°	8372.0	8316.1	7994.9	7569.9	7123.0	6646.1	6187.2	5828.1	5498.8	5329.3	5333.2
12.5°	8328.1	8236.3	7775.4	7224.7	6568.3	5929.8	5227.5	4742.7	4361.6	4136.1	4066.3
15°	8290.2	8130.6	7518.0	6755.8	5939.8	5028.0	4172.0	3573.5	3254.2	3076.6	3074.6
17.5°	8250.3	8028.8	7236.7	6259.0	5217.5	4044.3	3146.5	2689.6	2539.9	2557.9	2528.0
20°	8208.4	7909.1	6943.4	5706.3	4337.6	3016.8	2356.4	2170.8	2212.7	2294.5	2306.5
22.5°	8160.5	7781.4	6628.1	5097.8	3411.8	2270.6	1911.4	1883.5	1991.2	2118.9	2136.9
25°	8086.7	7621.8	6231.1	4461.3	2631.7	1829.6	1674.0	1693.9	1799.7	1907.4	1919.4
27.5°	7982.9	7424.2	5830.1	3667.2	1977.3	1570.2	1530.3	1556.3	1608.2	1674.0	1690.0
30°	7843.2	7200.8	5369.2	2980.9	1584.2	1440.6	1424.6	1438.6	1468.5	1496.4	1504.4
32.5°	7703.6	6985.3	4904.3	2282.5	1412.6	1354.8	1338.8	1338.8	1338.8	1342.8	1344.8
35°	7573.9	6781.8	4405.5	1777.7	1322.8	1286.9	1265.0	1241.0	1237.0	1223.1	1223.1
37.5°	7502.1	6596.2	3874.7	1488.4	1257.0	1231.1	1201.1	1161.2	1139.3	1141.3	1137.3
40°	7516.0	6474.5	3391.9	1324.8	1203.1	1175.2	1129.3	1083.4	1069.4	1069.4	1065.5
42.5°	7673.6	6434.6	2929.0	1239.0	1151.2	1119.3	1061.5	1019.6	1011.6	1009.6	1013.6
45°	8036.8	6532.4	2514.0	1183.2	1107.4	1059.5	1001.6	963.7	955.7	955.7	953.7
47.5°	8745.1	6849.6	2216.7	1147.3	1075.4	1013.6	953.7	915.8	901.8	897.9	897.9
50°	9846.4	7538.0	1995.2	1115.3	1035.5	971.7	909.8	865.9	844.0	842.0	840.0
52.5°	11376.8	8611.4	1909.4	1091.4	991.6	927.8	859.9	818.0	790.1	784.1	780.1
55°	13166.5	10109.8	2027.2	1073.4	945.7	877.9	808.1	764.2	738.2	726.3	724.3
57.5°	15239.5	11909.5	2474.1	1049.5	903.8	824.0	756.2	712.3	684.4	670.4	666.4
60°	17101.1	13759.1	3254.2	1035.5	867.9	766.2	696.3	656.4	630.5	616.5	614.5
62.5°	19146.2	15522.9	4186.0	1073.4	852.0	710.3	640.5	604.6	582.6	568.6	568.6
65°	21331.0	17288.6	4802.5	1201.1	875.9	666.4	580.6	550.7	530.7	520.8	518.8
67.5°	22803.5	17899.2	3956.5	1332.8	935.8	618.5	522.7	498.8	486.8	476.9	476.9
69°	22643.8	17127.0	2919.0	1366.7	953.7	594.6	490.8	472.9	456.9	452.9	448.9
70°	22139.0	16247.1	2446.1	1344.8	939.8	572.6	470.9	448.9	435.0	431.0	429.0
72.5°	19718.8	14090.3	1821.6	1169.2	800.1	496.8	417.0	397.1	385.1	379.1	379.1
75°	16382.8	11516.5	1422.6	929.8	626.5	419.0	357.1	341.2	331.2	327.2	325.2
77.5°	9182.0	6430.6	1021.6	728.3	474.9	339.2	299.3	285.3	275.3	271.4	271.4
80°	2557.9	1837.6	600.6	480.8	323.2	257.4	237.4	227.5	213.5	203.5	209.5
82.5°	963.7	796.1	343.2	289.3	205.5	171.6	165.6	157.6	151.6	137.7	137.7
85°	468.9	387.1	219.5	153.6	113.7	89.8	85.8	81.8	77.8	67.8	69.8
87.5°	161.6	171.6	95.8	55.9	33.9	21.9	18.0	10.0	10.0	10.0	10.0
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)