

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: P454199

Luminaire Tested: **GALN-SA5B-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454199  
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-SA5B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 28444 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

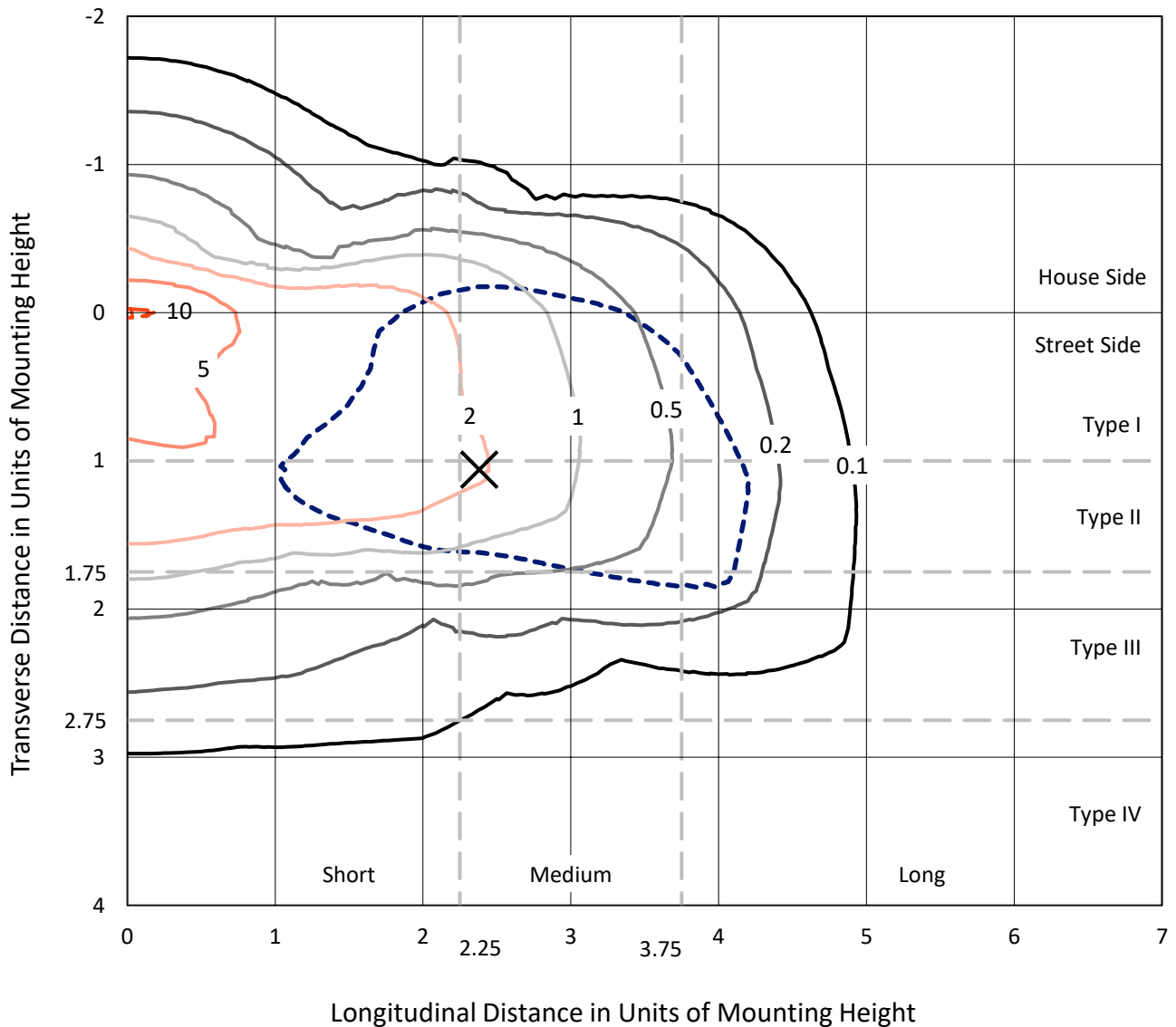
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

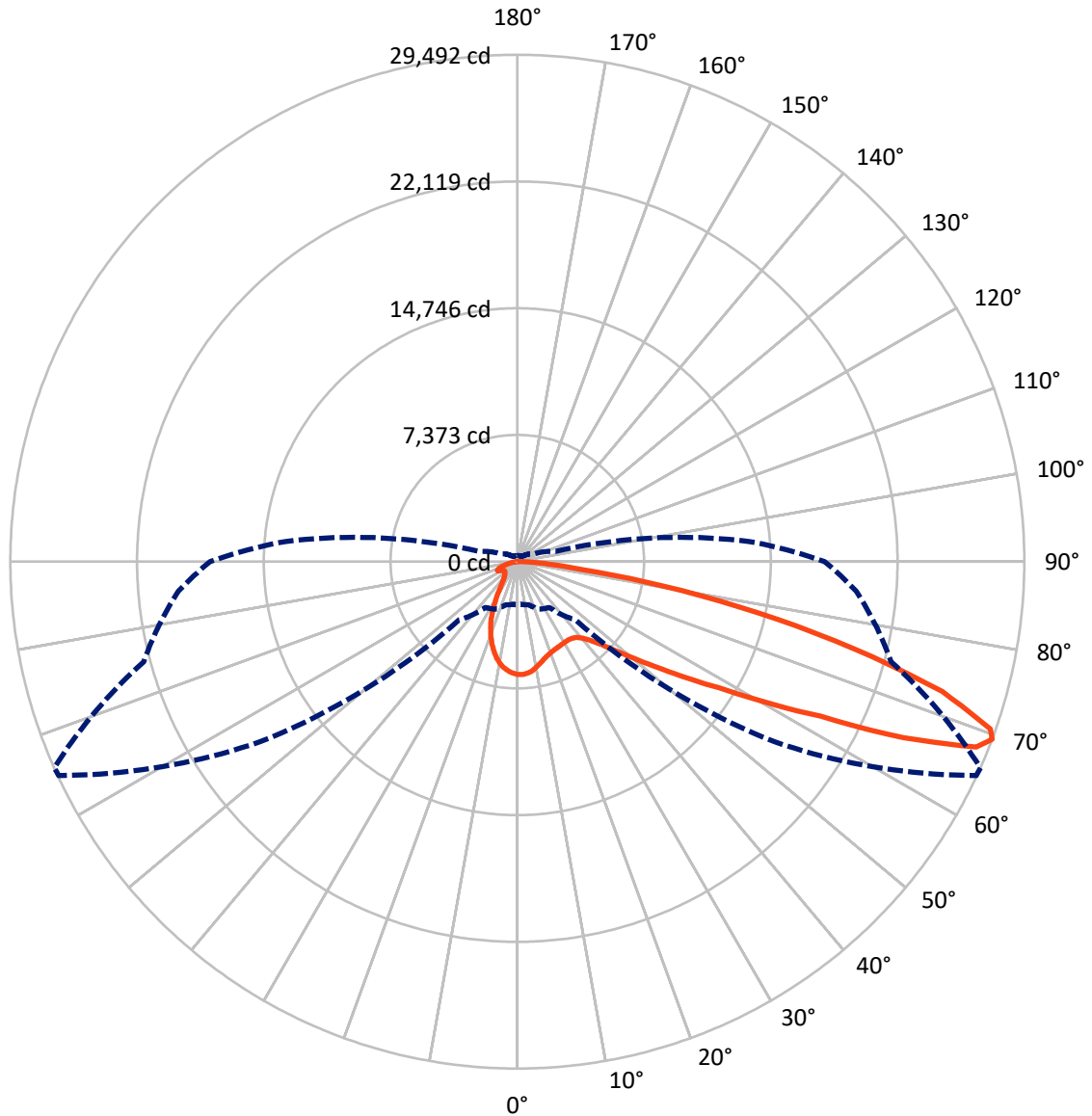
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	5349.2	0.0	5349.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23094.8	0.0	23094.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28444.0	0.0	28444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	570.4	2.0
10°-20°	1352.9	4.8
20°-30°	1841.9	6.5
30°-40°	2475.1	8.7
40°-50°	3695.7	13.0
50°-60°	5878.6	20.7
60°-70°	7230.4	25.4
70°-80°	4704.4	16.5
80°-90°	694.7	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°	28444.0	100.0
0°-180°	28444.0	100.0

**Coefficient of Utilization**



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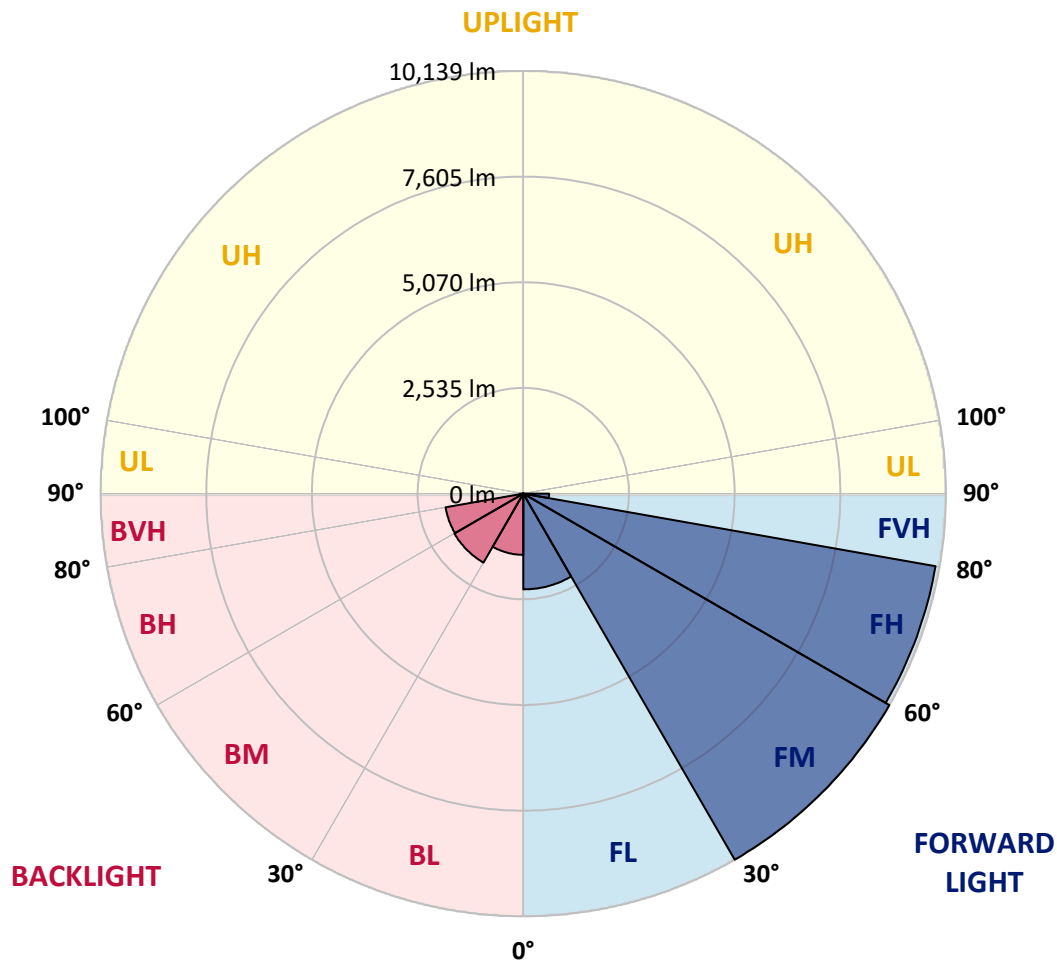
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.8	8.1			
FM	(30°-60°)	10139.4	35.6			
FH	(60°-80°)	10040.9	35.3			G4/12000
FVH	(80°-90°)	617.6	2.2			G4/750
BL	(0°-30°)	1468.4	5.2	B3/2500		
BM	(30°-60°)	1909.9	6.7	B2/2500		
BH	(60°-80°)	1893.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	77.1	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°	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5
2.5°	6338.5	6363.7	6392.1	6423.6	6483.5	6516.5	6540.2	6566.9	6570.1	6584.3	6573.2
5°	5870.7	5900.6	5943.2	6003.0	6092.8	6233.0	6377.9	6496.1	6510.2	6576.4	6595.3
7.5°	5480.1	5497.4	5532.0	5628.1	5755.7	5911.7	6122.7	6362.2	6396.8	6554.3	6609.5
10°	5161.9	5179.2	5220.2	5319.4	5445.4	5640.7	5872.3	6187.3	6215.7	6486.6	6612.6
12.5°	4924.0	4939.8	4983.9	5081.5	5226.5	5409.2	5664.4	5998.3	6039.2	6396.8	6582.7
15°	4742.9	4772.8	4809.0	4889.4	5042.2	5218.6	5465.9	5825.0	5858.1	6302.3	6562.2
17.5°	4665.7	4679.9	4705.1	4779.1	4890.9	5064.2	5313.1	5689.6	5728.9	6236.1	6557.5
20°	4668.8	4683.0	4687.7	4728.7	4809.0	4958.7	5204.4	5582.4	5629.7	6177.9	6565.4
22.5°	4776.0	4777.5	4760.2	4746.0	4777.5	4902.0	5127.2	5502.1	5557.2	6152.7	6571.7
25°	4941.3	4969.7	4944.5	4878.3	4820.1	4879.9	5097.3	5458.0	5510.0	6116.4	6563.8
27.5°	5209.1	5213.9	5193.4	5103.6	4952.4	4908.3	5084.7	5424.9	5469.0	6089.7	6524.4
30°	5568.3	5554.1	5535.2	5436.0	5198.1	5017.0	5111.5	5395.0	5440.7	6050.3	6477.1
32.5°	5932.1	5976.2	5958.9	5842.4	5533.6	5228.0	5198.1	5391.8	5429.7	6020.3	6425.2
35°	6318.1	6338.5	6420.4	6360.6	6044.0	5569.8	5360.3	5440.7	5470.6	6021.9	6388.9
37.5°	6620.5	6675.6	6867.8	6919.8	6622.1	6021.9	5623.4	5579.3	5591.9	6099.1	6403.1
40°	6985.9	7080.4	7327.7	7540.4	7345.1	6609.5	6070.8	5836.1	5851.8	6285.0	6496.1
42.5°	7449.0	7515.2	7847.6	8135.8	8104.3	7386.0	6612.6	6256.6	6264.5	6655.1	6756.0
45°	7990.9	8085.4	8458.7	8891.9	8965.9	8265.0	7395.5	6893.0	6888.3	7230.1	7241.1
47.5°	8684.0	8742.3	9112.4	9585.0	9884.3	9369.2	8345.3	7806.6	7756.2	8068.1	7978.3
50°	9321.9	9413.3	9693.7	10210.3	10955.4	10662.4	9594.4	8991.1	8873.0	9164.4	9013.2
52.5°	9589.7	9685.8	9922.1	10563.2	11873.7	12335.3	11180.6	10404.1	10207.2	10430.9	10375.7
55°	9125.0	9249.5	9470.0	10249.7	12277.0	14264.9	13319.7	12037.5	11894.2	11798.1	11813.9
57.5°	7875.9	7994.0	8291.8	9151.8	11795.0	15665.2	16374.0	14137.3	13830.1	13387.5	13463.1
60°	5995.1	6069.2	6223.5	7176.5	10366.3	16029.1	19842.6	16791.4	16596.1	14970.5	15024.1
62.5°	4257.7	4341.2	4448.3	4924.0	7589.2	15003.6	22558.2	20497.8	19800.0	16610.3	16558.3
65°	3457.5	3400.8	3530.0	3752.1	4453.0	11628.0	23169.4	25642.4	24681.5	18769.9	18048.4
67.5°	2843.2	2783.3	2910.9	3306.3	3386.6	6749.7	20967.3	28981.8	28789.6	21118.5	19562.2
69°	2517.1	2485.6	2597.5	3048.0	3251.2	4793.3	18265.8	29446.5	29492.1	22503.1	19795.3
70°	2268.3	2280.9	2389.6	2917.2	3189.7	3952.1	15611.6	28805.4	29192.9	23194.6	19543.3
72.5°	1669.7	1696.5	1847.7	2416.3	3131.5	3353.6	9290.4	25160.4	25845.6	23235.5	17878.3
75°	1167.2	1154.6	1288.5	1819.3	2958.2	3323.6	5456.4	19458.2	20234.8	20083.6	15022.5
77.5°	764.0	784.4	891.6	1285.3	2488.8	3298.4	3556.8	13804.9	14309.0	13431.6	8885.6
80°	538.7	537.1	597.0	877.4	1846.1	3169.3	2912.5	8701.3	8573.7	5278.4	2635.3
82.5°	308.7	330.8	400.1	617.5	1234.9	2789.6	2679.4	4161.6	3799.3	1504.3	890.0
85°	171.7	179.6	237.9	373.3	721.4	2101.3	2339.1	1893.4	1786.3	628.5	382.8
87.5°	55.1	59.9	99.2	189.0	327.6	992.4	1324.7	874.2	806.5	226.8	154.4
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°	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5	6568.5
2.5°	6578.0	6596.9	6546.5	6497.6	6453.5	6392.1	6337.0	6291.3	6259.8	6255.0	6239.3
5°	6600.0	6601.6	6505.5	6376.3	6250.3	6111.7	5968.4	5866.0	5769.9	5716.3	5689.6
7.5°	6615.8	6601.6	6428.3	6218.8	5976.2	5724.2	5472.2	5270.6	5114.6	5053.2	5076.8
10°	6609.5	6565.4	6311.8	5976.2	5623.4	5246.9	4884.6	4601.1	4341.2	4207.3	4210.5
12.5°	6574.8	6502.4	6138.5	5703.7	5185.5	4681.4	4127.0	3744.2	3443.3	3265.4	3210.2
15°	6544.9	6418.9	5935.3	5333.6	4689.3	3969.5	3293.7	2821.2	2569.1	2428.9	2427.4
17.5°	6513.4	6338.5	5713.2	4941.3	4119.1	3192.9	2484.1	2123.3	2005.2	2019.4	1995.8
20°	6480.3	6244.0	5481.6	4505.0	3424.4	2381.7	1860.3	1713.8	1746.9	1811.5	1820.9
22.5°	6442.5	6143.2	5232.8	4024.6	2693.6	1792.6	1509.0	1487.0	1572.0	1672.8	1687.0
25°	6384.2	6017.2	4919.3	3522.1	2077.7	1444.4	1321.6	1337.3	1420.8	1505.9	1515.3
27.5°	6302.3	5861.3	4602.7	2895.2	1561.0	1239.7	1208.2	1228.6	1269.6	1321.6	1334.2
30°	6192.0	5684.8	4238.8	2353.3	1250.7	1137.3	1124.7	1135.7	1159.3	1181.4	1187.7
32.5°	6081.8	5514.7	3871.8	1802.0	1115.2	1069.5	1056.9	1056.9	1056.9	1060.1	1061.7
35°	5979.4	5354.0	3478.0	1403.5	1044.3	1016.0	998.7	979.8	976.6	965.6	965.6
37.5°	5922.7	5207.6	3059.0	1175.1	992.4	971.9	948.3	916.8	899.4	901.0	897.9
40°	5933.7	5111.5	2677.8	1045.9	949.8	927.8	891.6	855.3	844.3	844.3	841.1
42.5°	6058.2	5080.0	2312.4	978.2	908.9	883.7	838.0	804.9	798.6	797.0	800.2
45°	6344.8	5157.1	1984.7	934.1	874.2	836.4	790.7	760.8	754.5	754.5	752.9
47.5°	6904.0	5407.6	1750.0	905.7	849.0	800.2	752.9	723.0	712.0	708.8	708.8
50°	7773.5	5951.0	1575.2	880.5	817.5	767.1	718.3	683.6	666.3	664.7	663.2
52.5°	8981.7	6798.5	1507.4	861.6	782.9	732.5	678.9	645.8	623.8	619.0	615.9
55°	10394.6	7981.4	1600.4	847.4	746.6	693.1	637.9	603.3	582.8	573.4	571.8
57.5°	12031.2	9402.3	1953.2	828.5	713.6	650.6	597.0	562.3	540.3	529.3	526.1
60°	13500.9	10862.5	2569.1	817.5	685.2	604.9	549.7	518.2	497.8	486.7	485.2
62.5°	15115.4	12254.9	3304.7	847.4	672.6	560.8	505.6	477.3	460.0	448.9	448.9
65°	16840.3	13649.0	3791.5	948.3	691.5	526.1	458.4	434.8	419.0	411.1	409.5
67.5°	18002.8	14131.0	3123.6	1052.2	738.8	488.3	412.7	393.8	384.3	376.5	376.5
69°	17876.7	13521.4	2304.5	1079.0	752.9	469.4	387.5	373.3	360.7	357.6	354.4
70°	17478.2	12826.7	1931.2	1061.7	741.9	452.1	371.7	354.4	343.4	340.2	338.7
72.5°	15567.5	11123.9	1438.1	923.1	631.6	392.2	329.2	313.5	304.0	299.3	299.3
75°	12933.8	9092.0	1123.1	734.0	494.6	330.8	282.0	269.4	261.5	258.3	256.8
77.5°	7249.0	5076.8	806.5	574.9	374.9	267.8	236.3	225.3	217.4	214.2	214.2
80°	2019.4	1450.7	474.1	379.6	255.2	203.2	187.4	179.6	168.5	160.7	165.4
82.5°	760.8	628.5	270.9	228.4	162.2	135.5	130.7	124.4	119.7	108.7	108.7
85°	370.2	305.6	173.3	121.3	89.8	70.9	67.7	64.6	61.4	53.6	55.1
87.5°	127.6	135.5	75.6	44.1	26.8	17.3	14.2	7.9	7.9	7.9	7.9
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)