

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: P459042

Luminaire Tested: **GALN-SA5C-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459042  
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-SA5C-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA 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: 32738 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

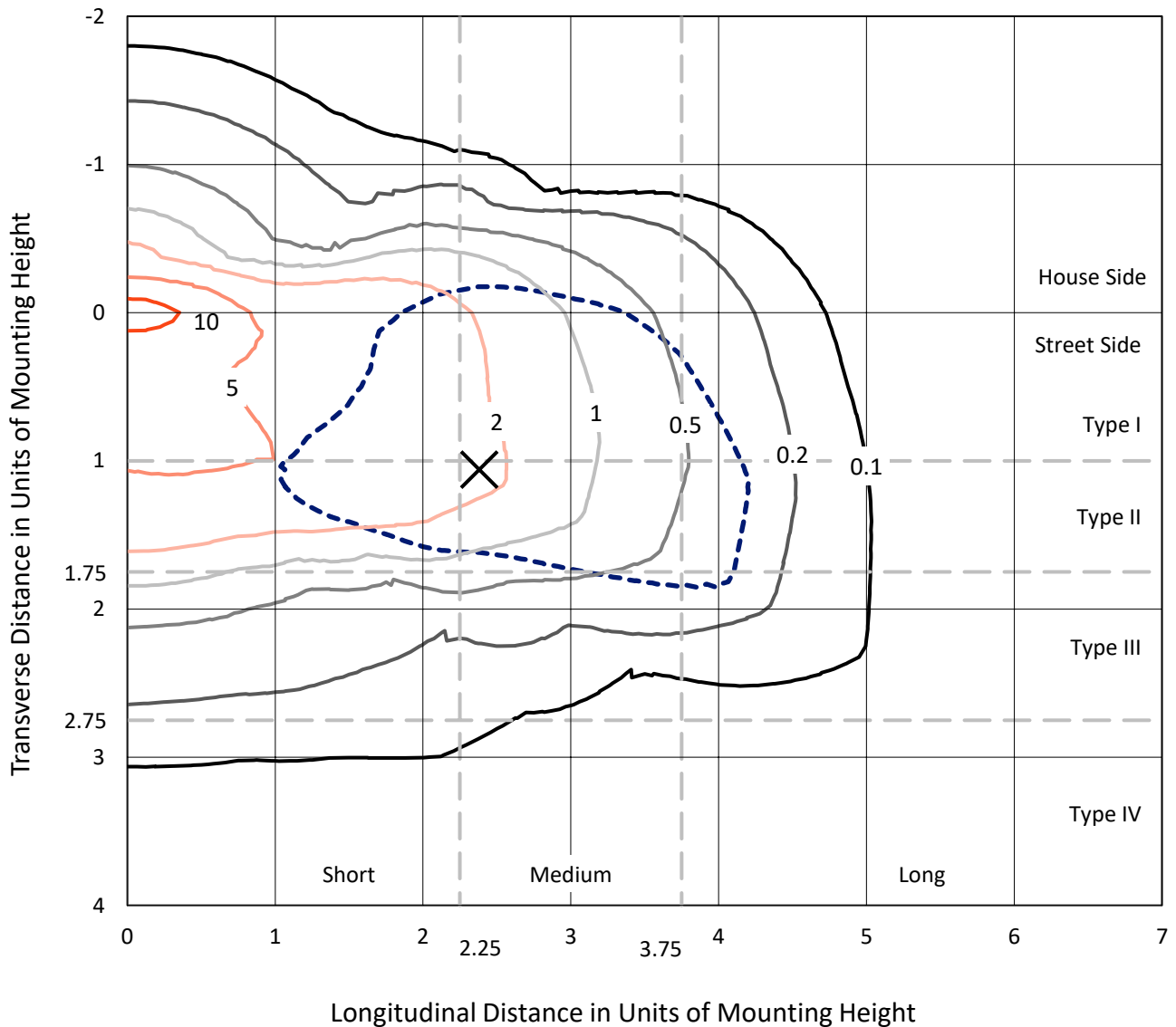
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

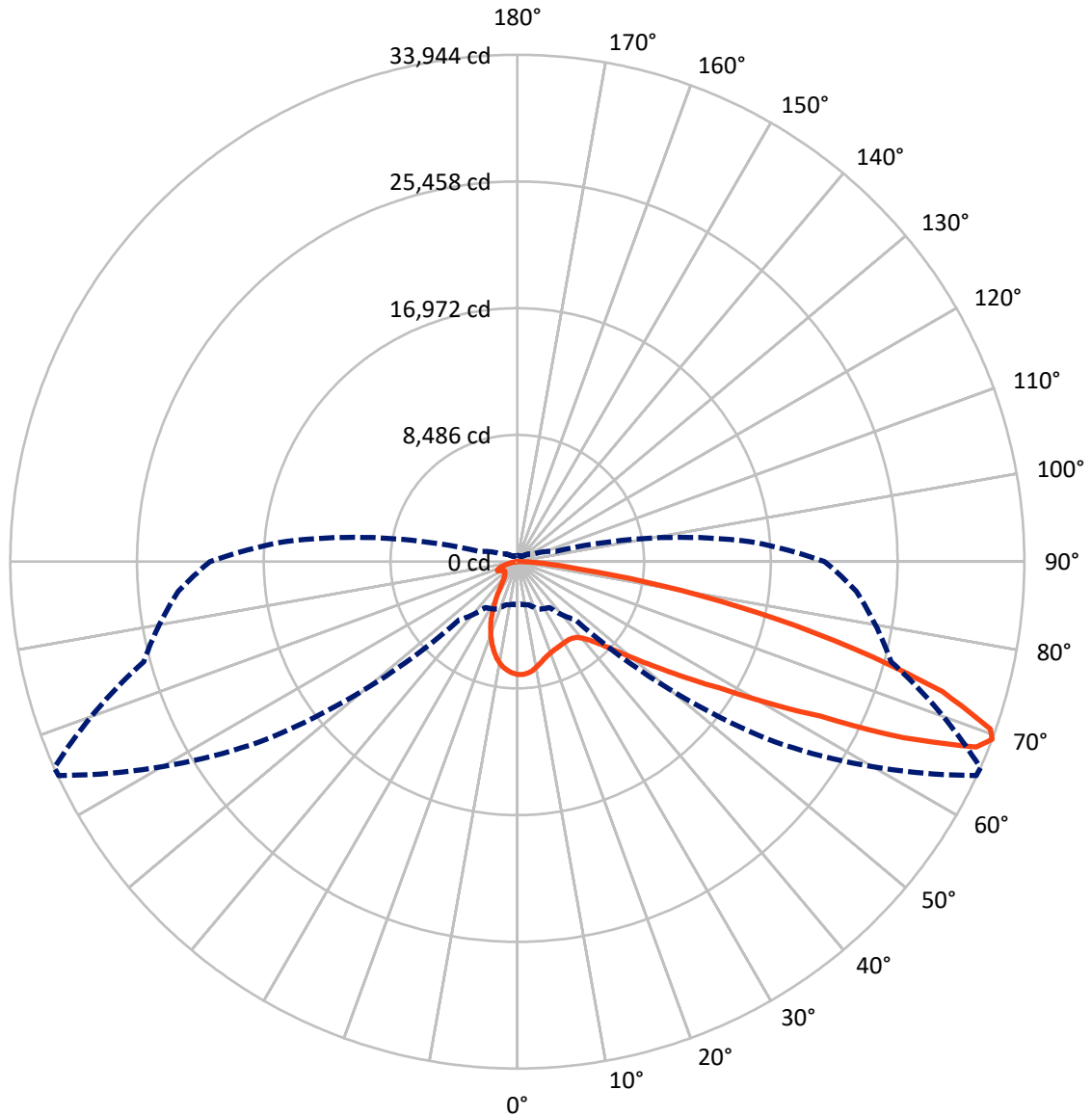
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	6156.8	0.0	6156.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26581.2	0.0	26581.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32738.0	0.0	32738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.5	2.0
10°-20°	1557.2	4.8
20°-30°	2119.9	6.5
30°-40°	2848.7	8.7
40°-50°	4253.6	13.0
50°-60°	6766.0	20.7
60°-70°	8321.9	25.4
70°-80°	5414.6	16.5
80°-90°	799.6	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°	32738.0	100.0
0°-180°	32738.0	100.0

**Coefficient of Utilization**



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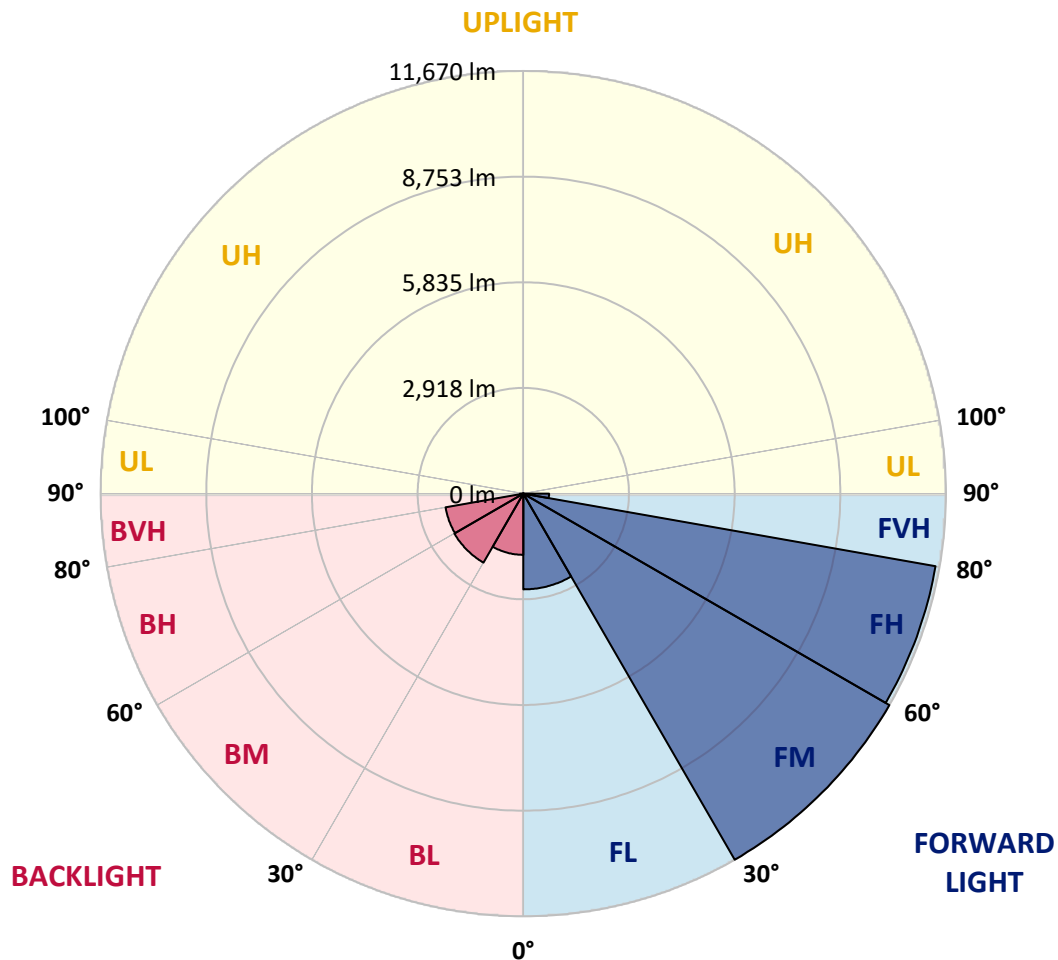
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2643.6	8.1			
FM	(30°-60°)	11670.1	35.6			
FH	(60°-80°)	11556.7	35.3			G4/12000
FVH	(80°-90°)	710.9	2.2			G4/750
BL	(0°-30°)	1690.1	5.2	B3/2500		
BM	(30°-60°)	2198.2	6.7	B2/2500		
BH	(60°-80°)	2179.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	88.7	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°	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1
2.5°	7295.4	7324.4	7357.1	7393.3	7462.2	7500.3	7527.5	7558.3	7561.9	7578.2	7565.6
5°	6757.0	6791.4	6840.4	6909.3	7012.6	7173.9	7340.7	7476.7	7493.0	7569.2	7590.9
7.5°	6307.3	6327.3	6367.2	6477.8	6624.6	6804.1	7047.0	7322.6	7362.5	7543.8	7607.3
10°	5941.1	5961.1	6008.2	6122.4	6267.5	6492.3	6758.8	7121.4	7154.0	7465.8	7610.9
12.5°	5667.4	5685.5	5736.3	5848.7	6015.5	6225.8	6519.5	6903.8	6951.0	7362.5	7576.4
15°	5458.9	5493.3	5535.0	5627.5	5803.3	6006.4	6291.0	6704.4	6742.5	7253.7	7552.9
17.5°	5370.0	5386.4	5415.4	5500.6	5629.3	5828.7	6115.2	6548.5	6593.8	7177.6	7547.4
20°	5373.7	5390.0	5395.4	5442.6	5535.0	5707.3	5990.1	6425.2	6479.6	7110.5	7556.5
22.5°	5496.9	5498.8	5478.8	5462.5	5498.8	5642.0	5901.2	6332.7	6396.2	7081.5	7563.7
25°	5687.3	5719.9	5690.9	5614.8	5547.7	5616.6	5866.8	6282.0	6341.8	7039.8	7554.7
27.5°	5995.5	6001.0	5977.4	5874.0	5700.0	5649.2	5852.3	6243.9	6294.7	7009.0	7509.4
30°	6408.9	6392.6	6370.8	6256.6	5982.8	5774.3	5883.1	6209.4	6262.0	6963.6	7455.0
32.5°	6827.7	6878.4	6858.5	6724.3	6369.0	6017.3	5982.8	6205.8	6249.3	6929.2	7395.1
35°	7271.9	7295.4	7389.7	7320.8	6956.4	6410.7	6169.6	6262.0	6296.5	6931.0	7353.4
37.5°	7619.9	7683.4	7904.6	7964.4	7621.8	6931.0	6472.3	6421.6	6436.1	7019.8	7369.8
40°	8040.6	8149.3	8434.0	8678.7	8453.9	7607.3	6987.2	6717.1	6735.2	7233.8	7476.7
42.5°	8573.6	8649.7	9032.3	9364.0	9327.8	8501.0	7610.9	7201.1	7210.2	7659.8	7775.9
45°	9197.2	9306.0	9735.7	10234.3	10319.5	9512.7	8511.9	7933.6	7928.1	8321.6	8334.3
47.5°	9994.9	10062.0	10488.1	11032.0	11376.4	10783.6	9605.2	8985.1	8927.1	9286.1	9182.7
50°	10729.2	10834.4	11157.1	11751.7	12609.3	12272.0	11042.8	10348.5	10212.5	10547.9	10373.9
52.5°	11037.4	11148.0	11419.9	12157.8	13666.2	14197.4	12868.5	11974.7	11748.1	12005.5	11942.1
55°	10502.6	10645.8	10899.6	11797.0	14130.3	16418.3	15330.5	13854.8	13689.8	13579.2	13597.3
57.5°	9064.9	9200.9	9543.5	10533.4	13575.6	18030.1	18845.9	16271.5	15917.9	15408.5	15495.5
60°	6900.2	6985.4	7163.1	8259.9	11931.2	18448.9	22838.1	19326.3	19101.5	17230.5	17292.2
62.5°	4900.5	4996.6	5119.8	5667.4	8734.9	17268.6	25963.6	23592.3	22789.1	19117.8	19058.0
65°	3979.5	3914.2	4062.9	4318.5	5125.3	13383.4	26667.1	29513.5	28407.5	21603.4	20773.1
67.5°	3272.4	3203.5	3350.4	3805.4	3897.9	7768.6	24132.5	33357.0	33135.8	24306.6	22515.4
69°	2897.1	2860.9	2989.6	3508.1	3742.0	5516.9	21023.3	33891.8	33944.4	25900.2	22783.7
70°	2610.7	2625.2	2750.3	3357.6	3671.3	4548.8	17968.4	33153.9	33599.9	26696.1	22493.6
72.5°	1921.8	1952.6	2126.6	2781.1	3604.2	3859.8	10692.9	28958.7	29747.3	26743.2	20577.3
75°	1343.4	1328.9	1483.0	2094.0	3404.8	3825.4	6280.2	22395.7	23289.5	23115.5	17290.4
77.5°	879.3	902.9	1026.1	1479.4	2864.5	3796.4	4093.7	15888.9	16469.1	15459.3	10227.0
80°	620.0	618.2	687.1	1009.8	2124.8	3647.7	3352.2	10014.9	9868.0	6075.3	3033.1
82.5°	355.3	380.7	460.5	710.7	1421.4	3210.8	3083.9	4789.9	4372.9	1731.4	1024.3
85°	197.6	206.7	273.8	429.7	830.3	2418.5	2692.3	2179.2	2055.9	723.4	440.6
87.5°	63.5	68.9	114.2	217.6	377.1	1142.2	1524.7	1006.2	928.2	261.1	177.7
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°	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1	7560.1
2.5°	7571.0	7592.7	7534.7	7478.5	7427.8	7357.1	7293.6	7241.0	7204.8	7199.3	7181.2
5°	7596.4	7598.2	7487.6	7338.9	7193.9	7034.4	6869.4	6751.5	6640.9	6579.3	6548.5
7.5°	7614.5	7598.2	7398.8	7157.6	6878.4	6588.4	6298.3	6066.2	5886.7	5816.0	5843.2
10°	7607.3	7556.5	7264.6	6878.4	6472.3	6039.0	5622.0	5295.7	4996.6	4842.5	4846.1
12.5°	7567.4	7484.0	7065.2	6564.8	5968.3	5388.2	4750.0	4309.4	3963.2	3758.3	3694.8
15°	7532.9	7387.9	6831.3	6138.7	5397.2	4568.7	3790.9	3247.0	2957.0	2795.6	2793.8
17.5°	7496.7	7295.4	6575.7	5687.3	4740.9	3674.9	2859.1	2443.9	2307.9	2324.2	2297.0
20°	7458.6	7186.6	6309.2	5185.1	3941.4	2741.2	2141.1	1972.5	2010.6	2084.9	2095.8
22.5°	7415.1	7070.6	6022.7	4632.2	3100.2	2063.2	1736.8	1711.5	1809.4	1925.4	1941.7
25°	7348.0	6925.6	5661.9	4053.8	2391.3	1662.5	1521.1	1539.2	1635.3	1733.2	1744.1
27.5°	7253.7	6746.1	5297.5	3332.3	1796.7	1426.8	1390.6	1414.1	1461.3	1521.1	1535.6
30°	7126.8	6543.0	4878.7	2708.6	1439.5	1309.0	1294.5	1307.2	1334.4	1359.7	1367.0
32.5°	6999.9	6347.2	4456.3	2074.0	1283.6	1231.0	1216.5	1216.5	1216.5	1220.1	1221.9
35°	6882.1	6162.3	4003.1	1615.4	1202.0	1169.4	1149.4	1127.7	1124.0	1111.4	1111.4
37.5°	6816.8	5993.7	3520.8	1352.5	1142.2	1118.6	1091.4	1055.2	1035.2	1037.0	1033.4
40°	6829.5	5883.1	3082.1	1203.8	1093.2	1067.8	1026.1	984.4	971.8	971.8	968.1
42.5°	6972.7	5846.9	2661.5	1125.9	1046.1	1017.1	964.5	926.4	919.2	917.4	921.0
45°	7302.7	5935.7	2284.4	1075.1	1006.2	962.7	910.1	875.7	868.4	868.4	866.6
47.5°	7946.3	6223.9	2014.2	1042.5	977.2	921.0	866.6	832.2	819.5	815.8	815.8
50°	8947.0	6849.4	1813.0	1013.5	940.9	882.9	826.7	786.8	766.9	765.1	763.3
52.5°	10337.6	7824.8	1735.0	991.7	901.0	843.0	781.4	743.3	717.9	712.5	708.9
55°	11963.8	9186.4	1842.0	975.4	859.4	797.7	734.3	694.4	670.8	659.9	658.1
57.5°	13847.5	10821.7	2248.1	953.6	821.3	748.8	687.1	647.2	621.9	609.2	605.5
60°	15539.0	12502.3	2957.0	940.9	788.6	696.2	632.7	596.5	572.9	560.2	558.4
62.5°	17397.3	14105.0	3803.6	975.4	774.1	645.4	582.0	549.3	529.4	516.7	516.7
65°	19382.5	15709.4	4363.8	1091.4	795.9	605.5	527.6	500.4	482.3	473.2	471.4
67.5°	20720.5	16264.2	3595.1	1211.1	850.3	562.0	475.0	453.2	442.4	433.3	433.3
69°	20575.5	15562.6	2652.4	1241.9	866.6	540.3	446.0	429.7	415.2	411.5	407.9
70°	20116.8	14763.1	2222.7	1221.9	853.9	520.3	427.9	407.9	395.2	391.6	389.8
72.5°	17917.7	12803.2	1655.2	1062.4	727.0	451.4	378.9	360.8	349.9	344.5	344.5
75°	14886.4	10464.5	1292.7	844.8	569.3	380.7	324.5	310.0	301.0	297.3	295.5
77.5°	8343.3	5843.2	928.2	661.7	431.5	308.2	271.9	259.3	250.2	246.6	246.6
80°	2324.2	1669.8	545.7	436.9	293.7	233.9	215.7	206.7	194.0	184.9	190.4
82.5°	875.7	723.4	311.8	262.9	186.7	155.9	150.5	143.2	137.8	125.1	125.1
85°	426.0	351.7	199.4	139.6	103.3	81.6	78.0	74.3	70.7	61.6	63.5
87.5°	146.9	155.9	87.0	50.8	30.8	19.9	16.3	9.1	9.1	9.1	9.1
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)