

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: P455823

Luminaire Tested: **GALN-SA7A-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455823  
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-SA7A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 31795 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

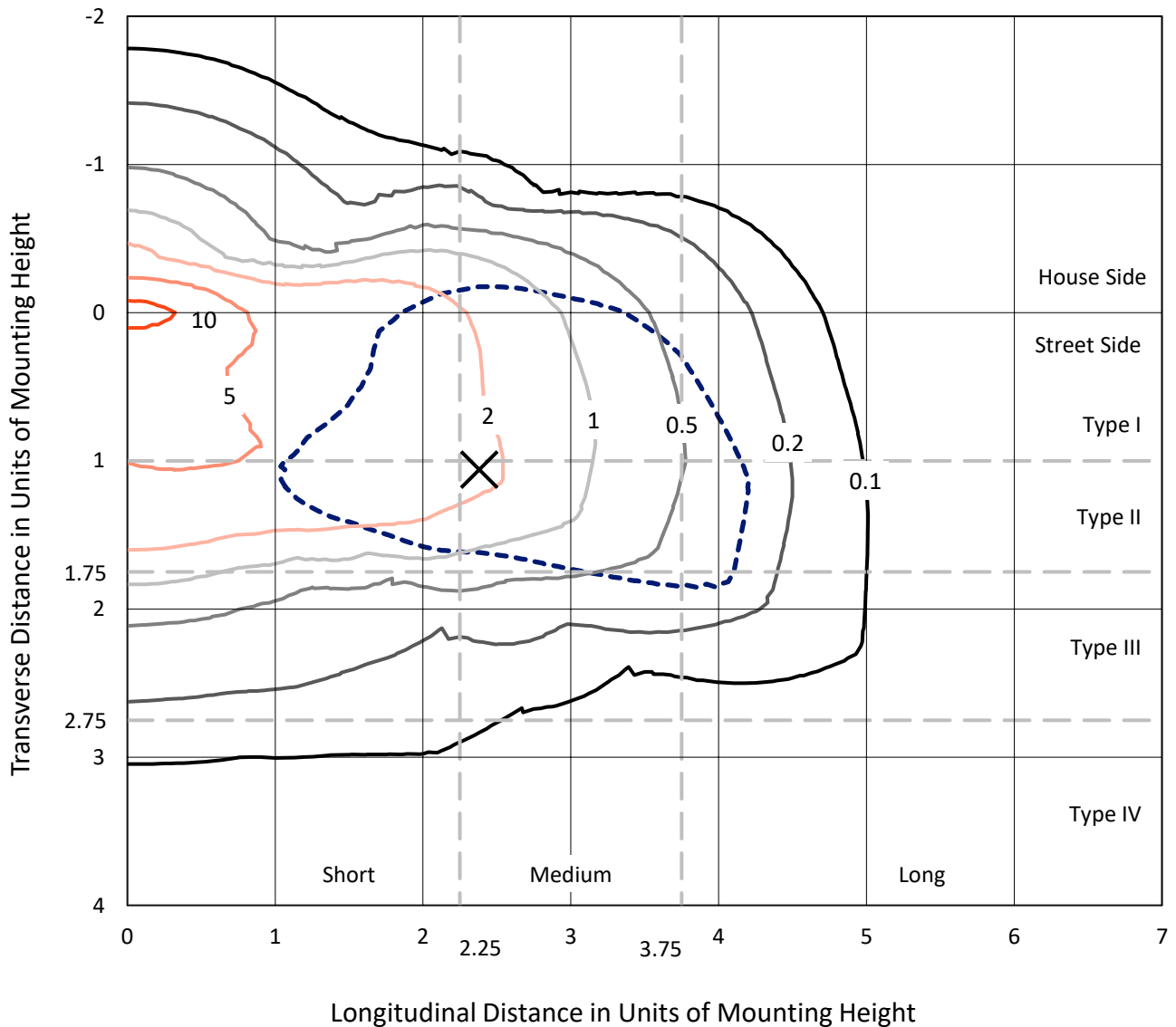
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

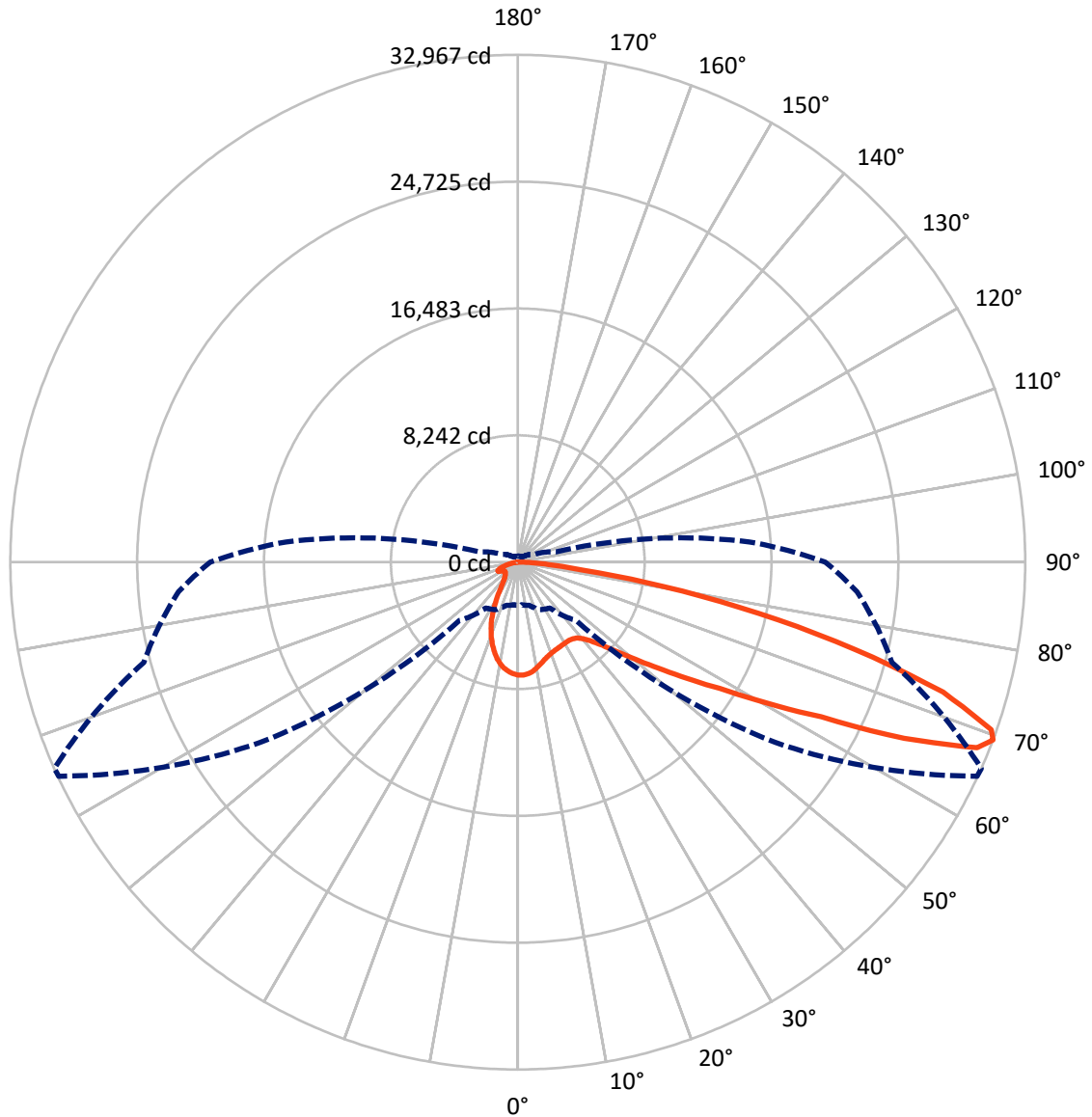
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5979.4	0.0	5979.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25815.6	0.0	25815.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	31795.0	0.0	31795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.6	2.0
10°-20°	1512.3	4.8
20°-30°	2058.9	6.5
30°-40°	2766.7	8.7
40°-50°	4131.1	13.0
50°-60°	6571.2	20.7
60°-70°	8082.2	25.4
70°-80°	5258.6	16.5
80°-90°	776.5	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°	31795.0	100.0
0°-180°	31795.0	100.0

**Coefficient of Utilization**



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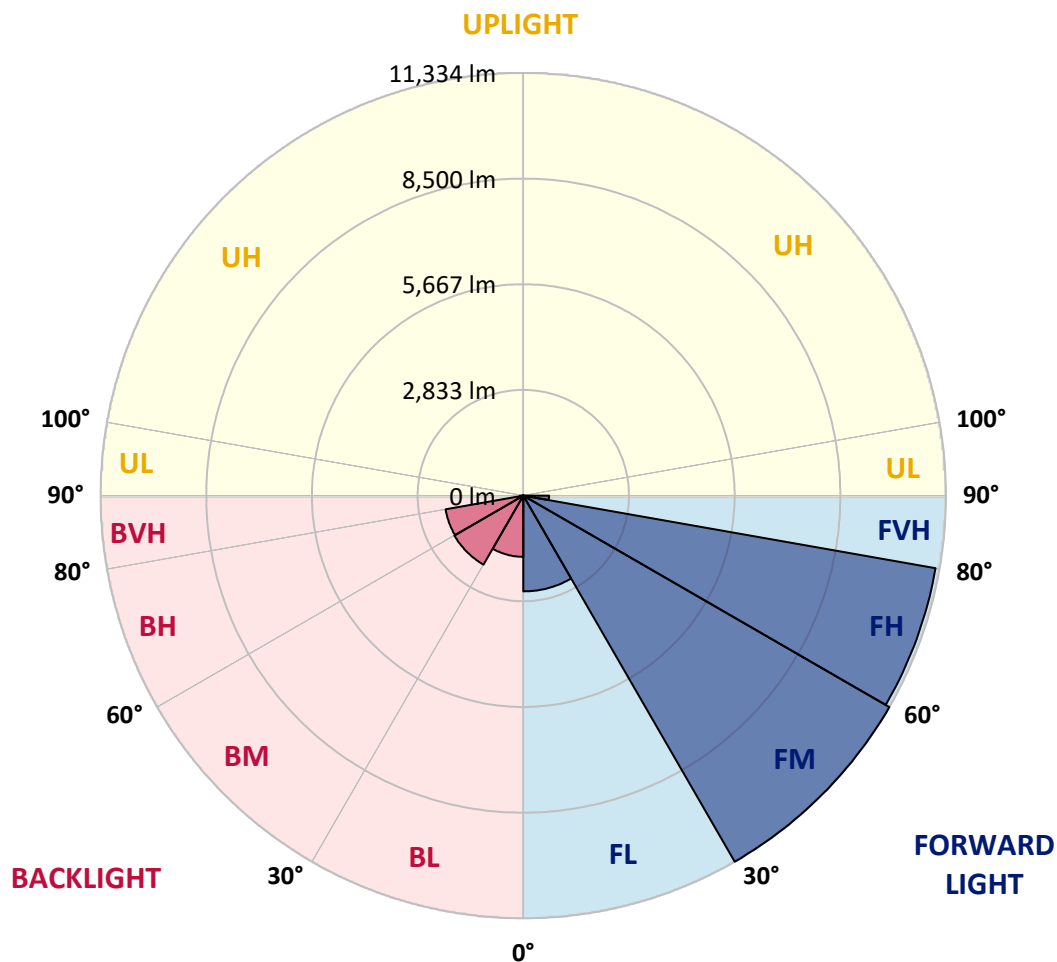
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.4	8.1			
FM (30°-60°)	11334.0	35.6			
FH (60°-80°)	11223.8	35.3			G4/12000
FVH (80°-90°)	690.4	2.2			G4/750
BL (0°-30°)	1641.4	5.2	B3/2500		
BM (30°-60°)	2134.9	6.7	B2/2500		
BH (60°-80°)	2117.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	86.1	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°	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3
2.5°	7085.3	7113.5	7145.1	7180.4	7247.3	7284.2	7310.7	7340.6	7344.1	7360.0	7347.6
5°	6562.3	6595.8	6643.3	6710.2	6810.6	6967.3	7129.3	7261.4	7277.2	7351.2	7372.3
7.5°	6125.7	6145.0	6183.8	6291.2	6433.8	6608.1	6844.1	7111.7	7150.4	7326.5	7388.1
10°	5770.0	5789.4	5835.1	5946.1	6086.9	6305.3	6564.1	6916.2	6947.9	7250.8	7391.7
12.5°	5504.1	5521.7	5571.0	5680.2	5842.2	6046.4	6331.7	6705.0	6750.7	7150.4	7358.2
15°	5301.6	5335.1	5375.6	5465.4	5636.2	5833.4	6109.8	6511.3	6548.2	7044.8	7335.3
17.5°	5215.4	5231.2	5259.4	5342.1	5467.1	5660.8	5939.0	6359.8	6403.9	6970.8	7330.0
20°	5218.9	5234.7	5240.0	5285.8	5375.6	5542.9	5817.5	6240.1	6292.9	6905.7	7338.8
22.5°	5338.6	5340.4	5321.0	5305.2	5340.4	5479.5	5731.3	6150.3	6211.9	6877.5	7345.9
25°	5523.5	5555.2	5527.0	5453.1	5387.9	5454.8	5697.8	6101.0	6159.1	6837.0	7337.1
27.5°	5822.8	5828.1	5805.2	5704.8	5535.8	5486.5	5683.7	6064.0	6113.3	6807.1	7293.0
30°	6224.3	6208.4	6187.3	6076.4	5810.5	5608.0	5713.7	6030.6	6081.6	6763.1	7240.2
32.5°	6631.0	6680.3	6660.9	6530.6	6185.5	5843.9	5810.5	6027.1	6069.3	6729.6	7182.1
35°	7062.4	7085.3	7176.8	7109.9	6756.0	6226.0	5991.8	6081.6	6115.1	6731.4	7141.6
37.5°	7400.5	7462.1	7676.9	7735.0	7402.2	6731.4	6285.9	6236.6	6250.7	6817.6	7157.5
40°	7808.9	7914.6	8191.0	8428.7	8210.4	7388.1	6786.0	6523.6	6541.2	7025.4	7261.4
42.5°	8326.6	8400.6	8772.1	9094.3	9059.1	8256.2	7391.7	6993.7	7002.5	7439.2	7551.9
45°	8932.3	9038.0	9455.3	9939.5	10022.2	9238.7	8266.7	7705.1	7699.8	8081.9	8094.2
47.5°	9707.0	9772.2	10186.0	10714.2	11048.7	10473.0	9328.5	8726.3	8670.0	9018.6	8918.2
50°	10420.1	10522.3	10835.7	11413.2	12246.1	11918.6	10724.8	10050.4	9918.3	10244.1	10075.0
52.5°	10719.5	10826.9	11091.0	11807.6	13272.6	13788.5	12497.8	11629.8	11409.7	11659.7	11598.1
55°	10200.1	10339.2	10585.7	11457.2	13723.3	15945.4	14888.9	13455.7	13295.5	13188.1	13205.7
57.5°	8803.8	8935.8	9268.6	10230.0	13184.5	17510.7	18303.0	15802.8	15459.4	14964.7	15049.2
60°	6701.4	6784.2	6956.7	8022.0	11587.5	17917.4	22180.2	18769.6	18551.3	16734.2	16794.1
62.5°	4759.3	4852.6	4972.4	5504.1	8483.3	16771.2	25215.8	22912.7	22132.7	18567.2	18509.1
65°	3864.9	3801.5	3945.9	4194.1	4977.7	12997.9	25898.9	28663.3	27589.3	20981.2	20174.7
67.5°	3178.2	3111.3	3253.9	3695.8	3785.6	7544.8	23437.4	32396.1	32181.3	23606.4	21866.8
69°	2813.7	2778.5	2903.5	3407.1	3634.2	5358.0	20417.7	32915.6	32966.6	25154.1	22127.4
70°	2535.5	2549.6	2671.1	3260.9	3565.5	4417.7	17450.8	32198.9	32632.1	25927.1	21845.7
72.5°	1866.4	1896.3	2065.4	2701.0	3500.4	3748.6	10384.9	28124.5	28890.5	25972.9	19984.6
75°	1304.7	1290.6	1440.3	2033.7	3306.7	3715.2	6099.3	21750.6	22618.7	22449.6	16792.3
77.5°	854.0	876.9	996.6	1436.8	2782.0	3687.0	3975.8	15431.3	15994.7	15014.0	9932.4
80°	602.2	600.4	667.3	980.7	2063.6	3542.6	3255.6	9726.4	9583.8	5900.3	2945.7
82.5°	345.1	369.8	447.2	690.2	1380.4	3118.3	2995.0	4651.9	4246.9	1681.5	994.8
85°	191.9	200.7	265.9	417.3	806.4	2348.8	2614.7	2116.4	1996.7	702.5	427.9
87.5°	61.6	66.9	110.9	211.3	366.2	1109.3	1480.8	977.2	901.5	253.5	172.6
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°	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3	7342.3
2.5°	7352.9	7374.0	7317.7	7263.1	7213.8	7145.1	7083.5	7032.5	6997.2	6992.0	6974.4
5°	7377.6	7379.3	7271.9	7127.5	6986.7	6831.7	6671.5	6557.1	6449.6	6389.8	6359.8
7.5°	7395.2	7379.3	7185.6	6951.5	6680.3	6398.6	6116.9	5891.5	5717.2	5648.5	5674.9
10°	7388.1	7338.8	7055.3	6680.3	6285.9	5865.1	5460.1	5143.2	4852.6	4703.0	4706.5
12.5°	7349.4	7268.4	6861.7	6375.7	5796.4	5233.0	4613.2	4185.3	3849.0	3650.0	3588.4
15°	7315.9	7175.1	6634.5	5961.9	5241.8	4437.1	3681.7	3153.5	2871.8	2715.1	2713.3
17.5°	7280.7	7085.3	6386.3	5523.5	4604.4	3569.1	2776.7	2373.5	2241.4	2257.3	2230.9
20°	7243.7	6979.6	6127.4	5035.8	3827.9	2662.3	2079.5	1915.7	1952.7	2024.9	2035.4
22.5°	7201.5	6866.9	5849.2	4498.7	3010.9	2003.7	1686.8	1662.2	1757.2	1869.9	1885.8
25°	7136.3	6726.1	5498.8	3937.0	2322.4	1614.6	1477.3	1494.9	1588.2	1683.3	1693.8
27.5°	7044.8	6551.8	5144.9	3236.3	1744.9	1385.7	1350.5	1373.4	1419.2	1477.3	1491.4
30°	6921.5	6354.6	4738.2	2630.6	1398.0	1271.3	1257.2	1269.5	1295.9	1320.6	1327.6
32.5°	6798.3	6164.4	4327.9	2014.3	1246.6	1195.6	1181.5	1181.5	1181.5	1185.0	1186.7
35°	6683.8	5984.8	3887.7	1568.8	1167.4	1135.7	1116.3	1095.2	1091.7	1079.3	1079.3
37.5°	6620.4	5821.1	3419.4	1313.5	1109.3	1086.4	1060.0	1024.8	1005.4	1007.2	1003.6
40°	6632.8	5713.7	2993.3	1169.1	1061.7	1037.1	996.6	956.1	943.8	943.8	940.2
42.5°	6771.9	5678.4	2584.8	1093.4	1016.0	987.8	936.7	899.7	892.7	890.9	894.5
45°	7092.3	5764.7	2218.6	1044.1	977.2	935.0	883.9	850.4	843.4	843.4	841.6
47.5°	7717.4	6044.7	1956.2	1012.4	949.0	894.5	841.6	808.2	795.9	792.3	792.3
50°	8689.3	6652.1	1760.8	984.3	913.8	857.5	802.9	764.2	744.8	743.0	741.3
52.5°	10039.8	7599.4	1685.0	963.1	875.1	818.8	758.9	721.9	697.3	692.0	688.5
55°	11619.2	8921.7	1788.9	947.3	834.6	774.7	713.1	674.4	651.5	640.9	639.2
57.5°	13448.6	10509.9	2183.3	926.2	797.6	727.2	667.3	628.6	603.9	591.6	588.1
60°	15091.4	12142.2	2871.8	913.8	765.9	676.1	614.5	579.3	556.4	544.1	542.3
62.5°	16896.2	13698.7	3694.1	947.3	751.8	626.8	565.2	533.5	514.1	501.8	501.8
65°	18824.2	15256.9	4238.1	1060.0	773.0	588.1	512.4	486.0	468.4	459.6	457.8
67.5°	20123.7	15795.7	3491.6	1176.2	825.8	545.8	461.3	440.2	429.6	420.8	420.8
69°	19982.8	15114.3	2576.0	1206.1	841.6	524.7	433.1	417.3	403.2	399.7	396.2
70°	19537.3	14337.8	2158.7	1186.7	829.3	505.3	415.5	396.2	383.8	380.3	378.6
72.5°	17401.5	12434.5	1607.6	1031.8	706.1	438.4	368.0	350.4	339.8	334.5	334.5
75°	14457.6	10163.1	1255.4	820.5	552.9	369.8	315.2	301.1	292.3	288.8	287.0
77.5°	8103.0	5674.9	901.5	642.7	419.1	299.3	264.1	251.8	243.0	239.5	239.5
80°	2257.3	1621.7	530.0	424.3	285.2	227.1	209.5	200.7	188.4	179.6	184.9
82.5°	850.4	702.5	302.8	255.3	181.4	151.4	146.1	139.1	133.8	121.5	121.5
85°	413.8	341.6	193.7	135.6	100.4	79.2	75.7	72.2	68.7	59.9	61.6
87.5°	142.6	151.4	84.5	49.3	29.9	19.4	15.8	8.8	8.8	8.8	8.8
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)