

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: P531924

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30593 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

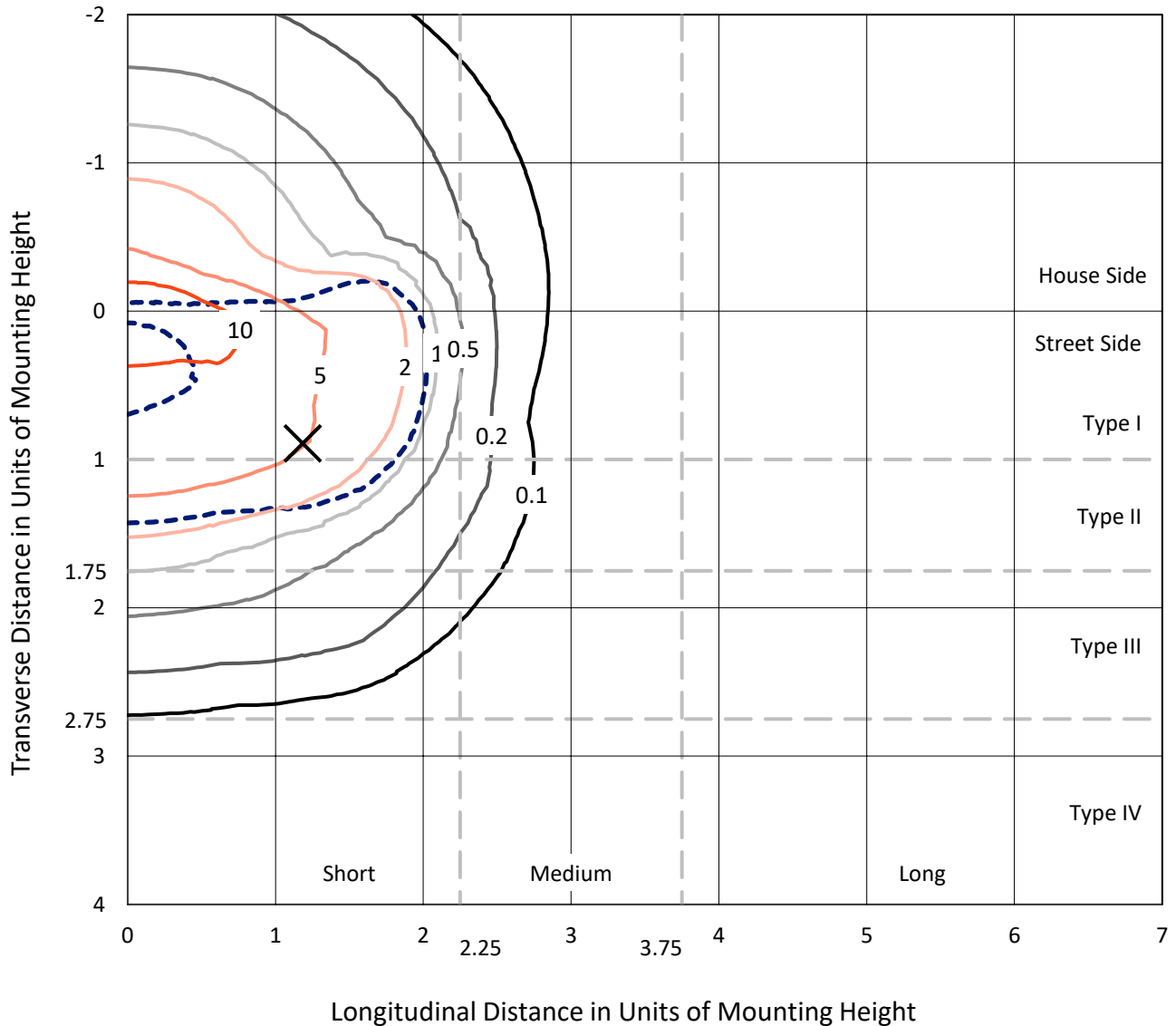
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

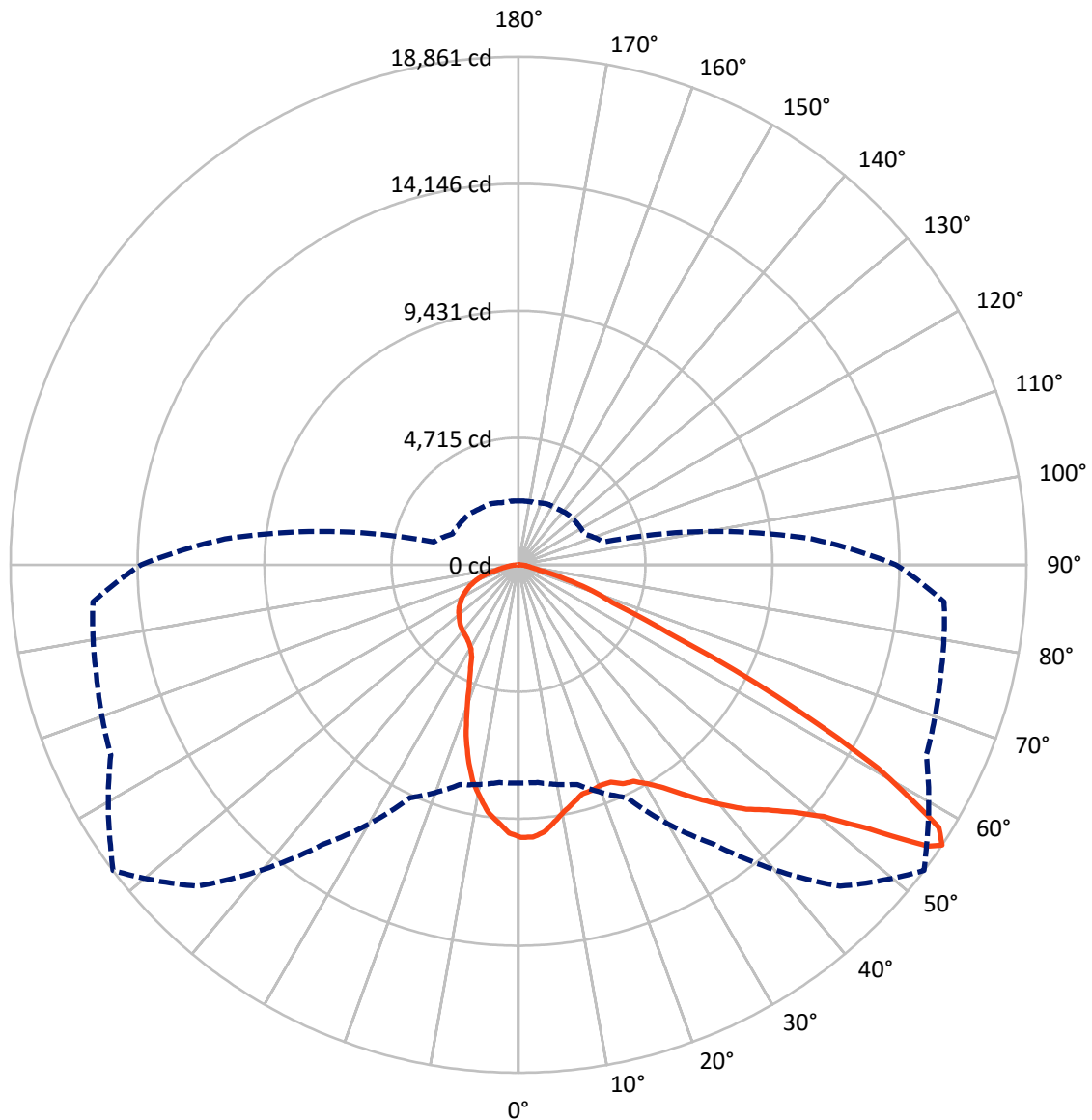
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8927.7	0.0	8927.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	21665.3	0.0	21665.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	30593.0	0.0	30593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	896.0	2.9
10°-20°	2237.9	7.3
20°-30°	3300.0	10.8
30°-40°	4715.0	15.4
40°-50°	6489.6	21.2
50°-60°	7668.9	25.1
60°-70°	4087.0	13.4
70°-80°	1036.9	3.4
80°-90°	161.7	0.5
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°	30593.0	100.0
0°-180°	30593.0	100.0

**Coefficient of Utilization**

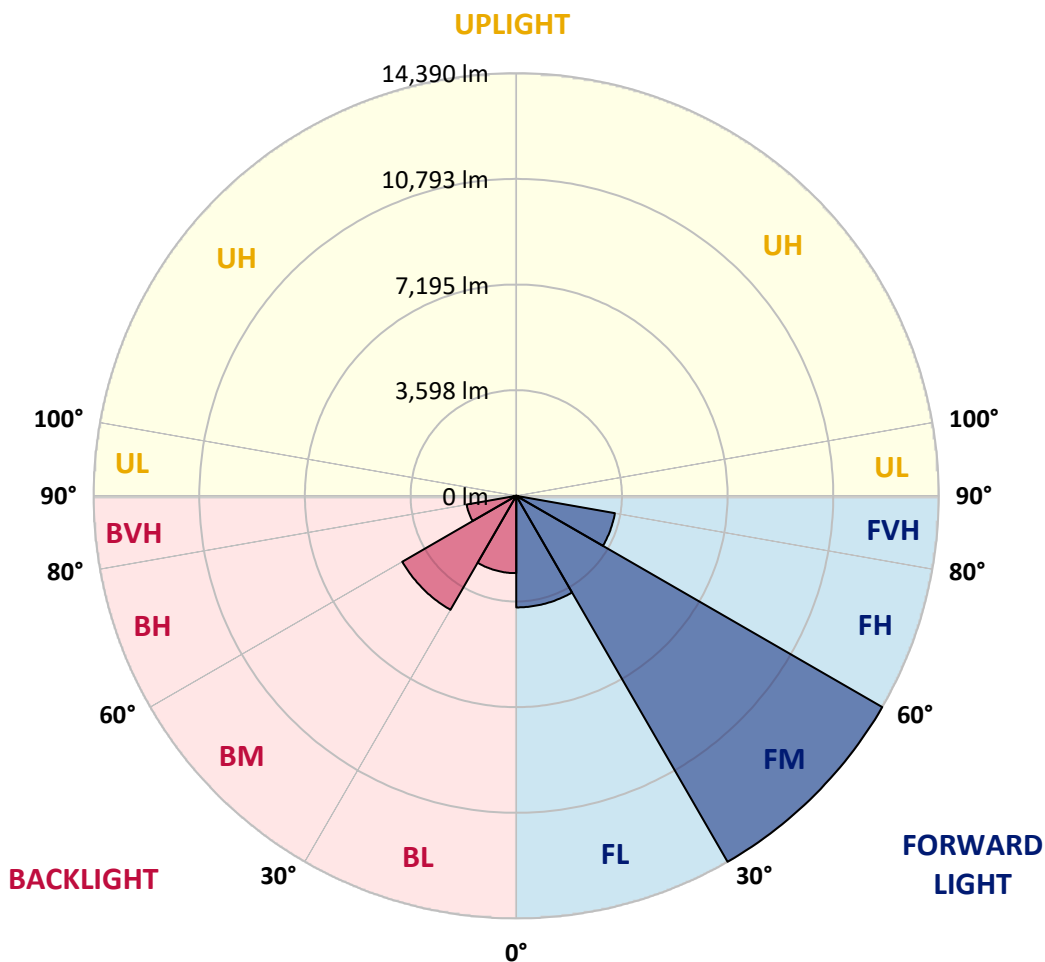


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3800.7	12.4			
FM	(30°-60°)	14390.4	47.0			
FH	(60°-80°)	3409.2	11.1			G2/5000
FVH	(80°-90°)	65.0	0.2			G1/100
BL	(0°-30°)	2633.1	8.6	B4/5000		
BM	(30°-60°)	4483.2	14.7	B3/5000		
BH	(60°-80°)	1714.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	96.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4
2.5°	9995.8	9909.4	9960.5	9940.8	10101.7	10148.8	10125.3	10144.9	10235.2	10192.0	10101.7
5°	9340.4	9462.0	9485.6	9544.5	9638.7	9823.1	9968.3	10007.6	10050.7	10250.9	10231.3
7.5°	8743.9	8826.3	8783.1	8955.8	9159.9	9458.1	9634.7	9666.1	10062.5	10172.4	10254.8
10°	8367.1	8284.7	8480.9	8528.0	8759.6	9101.0	9312.9	9442.4	9803.5	10239.1	10290.1
12.5°	8017.8	7990.3	8108.1	8241.5	8500.5	8853.7	9069.6	9120.6	9677.9	10137.1	10376.5
15°	7758.8	7727.4	7845.1	7943.3	8245.4	8559.4	8834.1	8979.3	9540.5	10078.2	10301.9
17.5°	7554.7	7550.8	7617.5	7794.1	8104.2	8367.1	8810.6	8818.4	9469.9	10168.5	10364.7
20°	7543.0	7539.0	7550.8	7747.0	8029.6	8351.4	8736.0	8806.7	9469.9	10105.7	10368.6
22.5°	7641.1	7578.3	7648.9	7774.5	7978.6	8378.9	8763.5	8920.5	9697.5	10415.7	10545.2
25°	7798.0	7813.7	7853.0	7896.2	8013.9	8441.7	9006.8	9136.3	9964.4	10682.6	10788.5
27.5°	8084.5	8076.7	8092.4	8115.9	8218.0	8500.5	9104.9	9438.5	10521.7	11157.4	11051.5
30°	8504.5	8477.0	8539.8	8622.2	8528.0	8688.9	9430.7	9681.8	11039.7	11636.2	11345.8
32.5°	8885.1	8987.2	9104.9	9140.2	9026.4	9057.8	9862.4	10117.4	11471.4	12224.9	11706.9
35°	9360.0	9442.4	9599.4	9709.3	9689.7	9595.5	10451.0	10788.5	12095.4	12656.6	12087.6
37.5°	9823.1	9921.2	10180.2	10506.0	10325.4	10282.3	11079.0	11357.6	12287.7	12888.2	12366.2
40°	10568.8	10564.8	11012.2	11181.0	11341.9	11267.3	11730.4	11824.6	12389.8	12837.1	12374.1
42.5°	11443.9	11389.0	11844.2	12107.2	12315.2	12323.0	12409.4	12378.0	12436.8	12578.1	12291.6
45°	12275.9	12393.7	12852.8	13323.8	13531.8	13555.3	12982.4	12923.5	12519.3	12503.6	12134.7
47.5°	13292.4	13319.9	13696.6	14316.7	14799.4	14634.6	13724.1	13594.6	12880.3	13002.0	12397.6
50°	13351.3	13555.3	13892.8	14622.8	16106.3	16063.1	14685.6	14442.3	13461.1	13708.4	13131.5
52.5°	12119.0	12071.9	12472.2	13665.2	16008.2	17483.8	16279.0	15698.1	14709.1	14520.8	14320.6
55°	9234.4	9344.3	9697.5	10902.4	13900.7	17503.4	18449.2	17974.4	16043.5	15721.7	15490.1
56°	8100.2	8115.9	8449.5	9548.4	12684.1	16879.4	18861.3	18476.7	16706.7	16216.2	15863.0
57.5°	6714.9	6624.6	6797.3	7397.7	10706.1	15560.8	18410.0	18786.7	17483.8	16749.9	16259.3
60°	5286.3	5266.7	5196.1	5306.0	6765.9	11722.6	15325.3	16173.0	17405.3	16247.6	15572.5
62.5°	4317.0	4218.9	4360.2	4517.1	4701.6	7272.2	10768.9	11267.3	13818.3	12970.6	11699.0
65°	3347.6	3300.5	3477.1	3987.3	4097.2	4619.2	6134.0	6518.6	8159.1	8013.9	7056.3
67.5°	2303.7	2311.5	2464.6	3241.7	3798.9	3751.9	3755.8	3955.9	4258.1	3163.2	2755.0
70°	1459.9	1456.0	1538.4	2087.9	3057.2	3088.6	2931.6	2872.8	2723.6	1648.3	1746.4
72.5°	938.0	910.5	953.7	1153.8	1581.6	1828.8	1883.8	1919.1	1577.7	1295.1	1405.0
75°	529.8	502.3	486.6	537.7	624.0	722.1	792.8	816.3	914.4	981.1	1040.0
77.5°	160.9	145.2	176.6	235.5	310.0	416.0	506.3	522.0	616.2	694.6	753.5
80°	70.6	78.5	109.9	157.0	219.8	294.3	357.1	380.7	443.5	502.3	518.0
82.5°	43.2	47.1	74.6	106.0	153.1	208.0	255.1	262.9	325.7	372.8	384.6
85°	15.7	19.6	39.2	62.8	98.1	133.4	133.4	145.2	133.4	133.4	145.2
87.5°	0.0	0.0	3.9	7.8	7.8	11.8	15.7	15.7	19.6	23.5	27.5
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°	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4	10121.4
2.5°	10148.8	10129.2	10097.8	9984.0	9972.2	9936.9	9740.7	9709.3	9740.7	9646.5	9654.4
5°	10129.2	10188.1	9952.6	9838.8	9626.9	9473.8	9297.2	9207.0	9046.0	8944.0	9057.8
7.5°	10215.6	10192.0	9897.7	9650.4	9332.5	8944.0	8634.0	8457.4	8174.8	8096.3	8155.2
10°	10184.2	10058.6	9713.2	9387.5	8787.0	8445.6	7943.3	7456.6	7189.7	7052.4	7032.8
12.5°	10141.0	10105.7	9528.8	8967.6	8335.7	7617.5	6911.1	6451.9	6016.3	5827.9	5855.4
15°	10192.0	9893.7	9183.4	8473.1	7633.2	6691.3	5930.0	5337.4	5035.2	4913.5	4913.5
17.5°	10168.5	9791.7	9018.6	7919.7	6856.2	5741.6	4905.7	4548.5	4422.9	4422.9	4458.3
20°	10180.2	9858.4	8685.0	7366.3	5937.8	4835.0	4226.7	4097.2	4152.2	4171.8	4191.4
22.5°	10247.0	9638.7	8359.3	6758.0	5086.2	4136.5	3838.2	3842.1	3940.2	4046.2	4026.6
25°	10329.4	9552.3	7962.9	6153.7	4434.7	3795.0	3700.8	3689.1	3763.6	3818.6	3826.4
27.5°	10258.7	9403.2	7558.7	5400.2	3901.0	3567.4	3547.8	3555.6	3579.2	3689.1	3653.7
30°	10490.3	9446.4	7052.4	4768.3	3606.6	3492.8	3469.3	3457.5	3492.8	3524.2	3496.8
32.5°	10776.8	9293.3	6675.6	4160.0	3461.4	3437.9	3390.8	3375.1	3394.7	3363.3	3379.0
35°	10902.4	9265.8	6185.1	3724.4	3347.6	3328.0	3300.5	3296.6	3300.5	3273.1	3249.5
37.5°	10973.0	9395.3	5623.9	3524.2	3277.0	3296.6	3233.8	3226.0	3155.3	3171.0	3182.8
40°	11094.7	9195.2	5168.6	3331.9	3233.8	3194.6	3139.6	3127.9	3080.8	3053.3	3080.8
42.5°	10918.1	9136.3	4721.2	3249.5	3171.0	3127.9	3088.6	3021.9	3006.2	2982.6	2966.9
45°	10776.8	8798.8	4320.9	3147.5	3096.5	3072.9	2998.3	2927.7	2868.8	2892.4	2857.1
47.5°	10882.7	8681.1	3924.5	3061.1	2994.4	2966.9	2892.4	2837.4	2778.6	2751.1	2743.2
50°	11306.6	8900.8	3590.9	2998.3	2908.1	2892.4	2794.3	2731.5	2676.5	2656.9	2664.8
52.5°	12319.1	9501.3	3363.3	2868.8	2825.7	2755.0	2700.1	2621.6	2586.3	2523.5	2562.7
55°	13602.4	10478.5	3304.5	2747.2	2723.6	2660.8	2586.3	2527.4	2460.7	2409.7	2397.9
56°	14014.5	10945.5	3257.4	2700.1	2660.8	2625.5	2527.4	2492.1	2386.1	2374.3	2366.5
57.5°	14348.1	11357.6	3265.2	2609.8	2570.6	2539.2	2480.3	2394.0	2323.3	2280.2	2299.8
60°	13594.6	10631.6	3116.1	2472.5	2464.6	2405.7	2323.3	2284.1	2197.7	2146.7	2134.9
62.5°	10105.7	7217.2	2527.4	2295.9	2291.9	2229.1	2134.9	2091.8	2076.1	2005.4	2005.4
65°	5820.1	4525.0	2186.0	2150.6	2119.2	2056.5	1962.3	1926.9	1887.7	1864.2	1844.5
67.5°	2484.2	2346.9	1985.8	1981.9	1946.6	1868.1	1773.9	1718.9	1667.9	1620.8	1644.4
70°	1801.4	1828.8	1793.5	1773.9	1730.7	1632.6	1550.2	1483.5	1405.0	1373.6	1397.1
72.5°	1428.5	1487.4	1538.4	1542.3	1491.3	1377.5	1287.2	1197.0	1110.6	1067.5	1087.1
75°	1083.2	1122.4	1173.4	1185.2	1110.6	1032.2	945.8	851.6	784.9	733.9	741.7
77.5°	781.0	773.1	820.2	812.4	777.1	722.1	643.6	557.3	482.7	435.6	439.5
80°	533.7	545.5	573.0	569.1	525.9	490.6	431.7	361.1	306.1	266.9	259.0
82.5°	372.8	392.5	416.0	396.4	361.1	325.7	282.6	231.5	188.4	157.0	149.1
85°	133.4	153.1	176.6	188.4	200.2	192.3	160.9	129.5	94.2	78.5	74.6
87.5°	27.5	31.4	35.3	35.3	35.3	31.4	27.5	27.5	23.5	11.8	11.8
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)