

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: P455370

Luminaire Tested: **GALN-SA6C-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41927 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

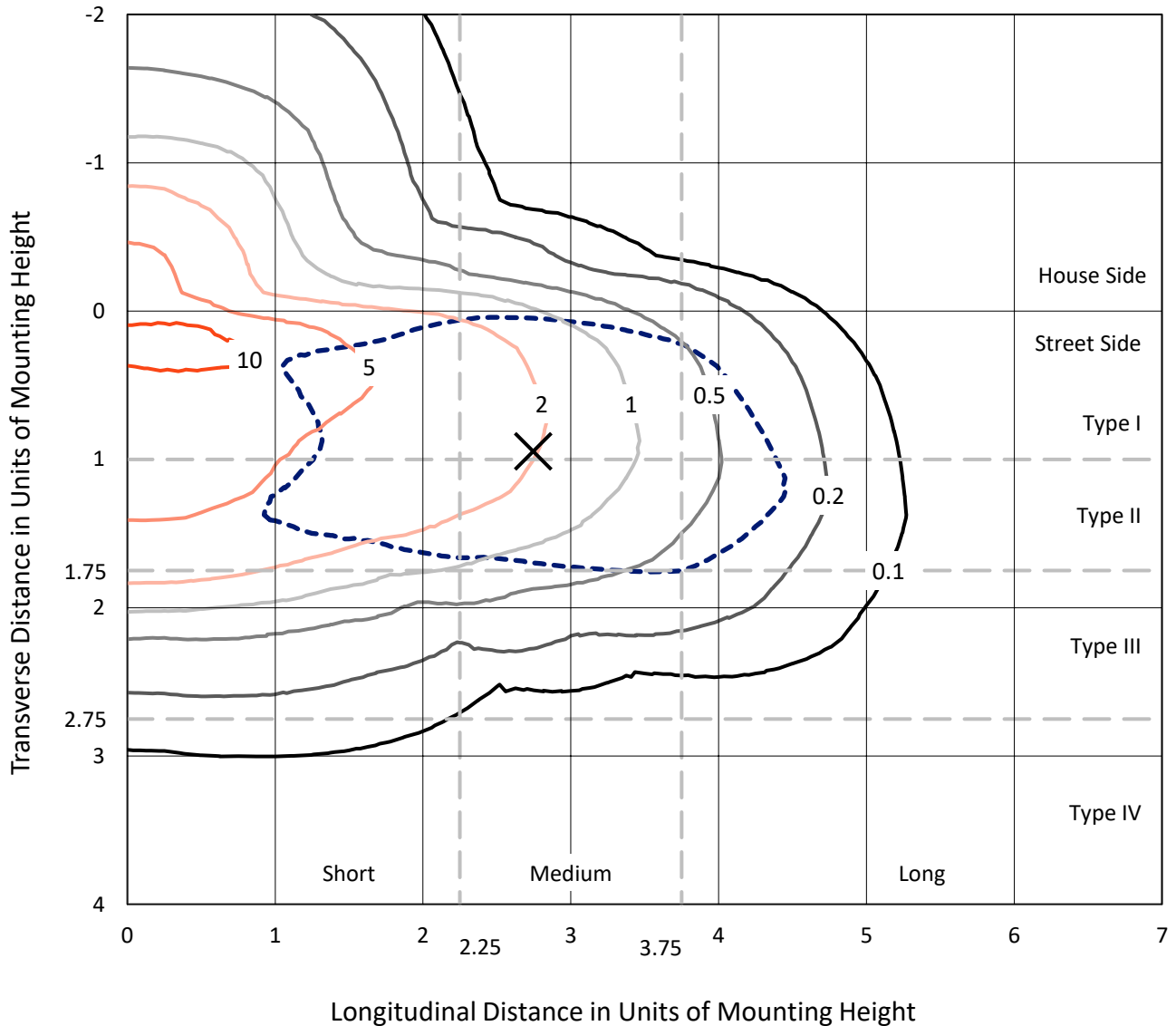
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

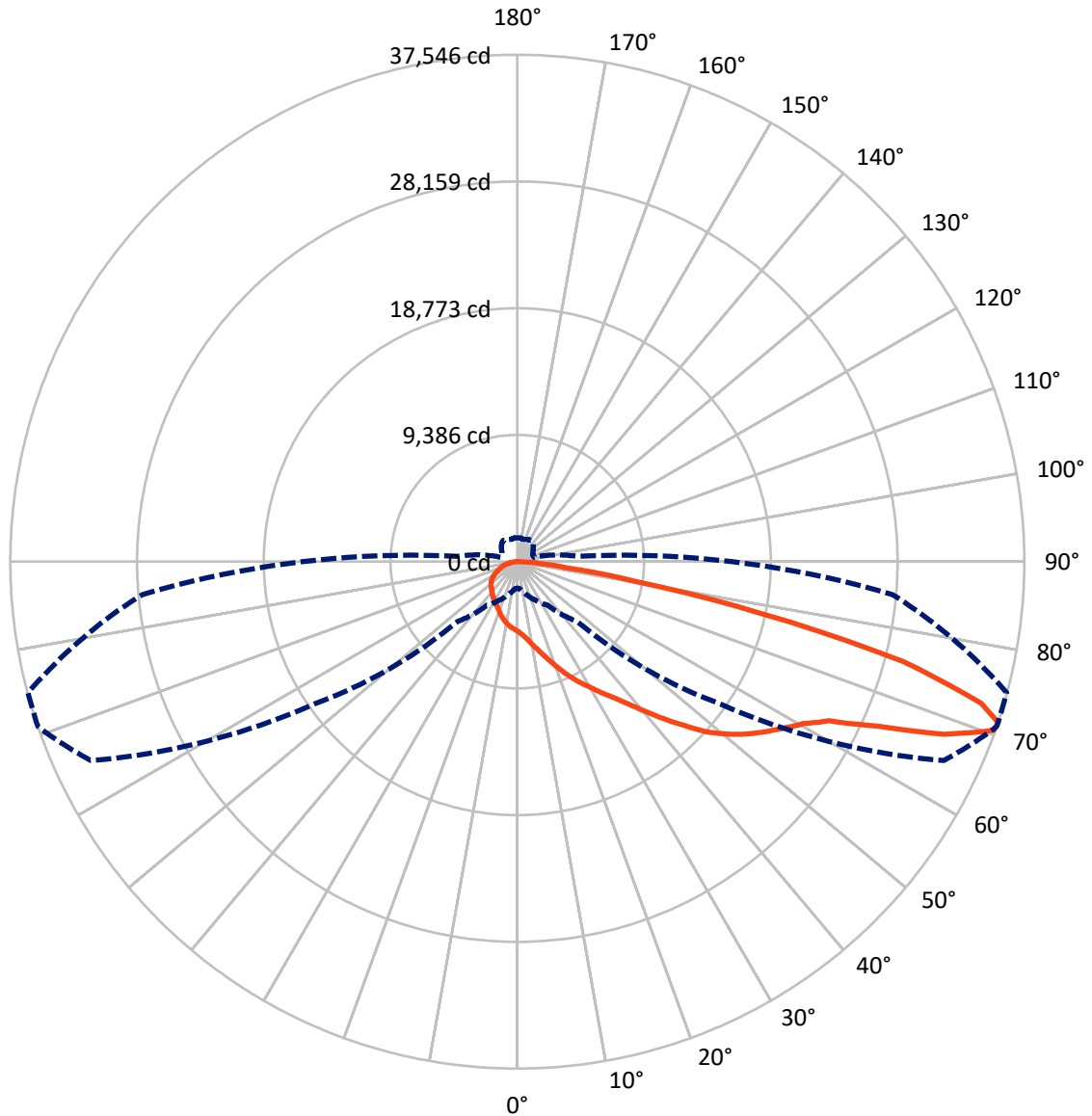
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7540.5	0.0	7540.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	34386.5	0.0	34386.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	41927.0	0.0	41927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.7	1.2
10°-20°	1678.6	4.0
20°-30°	2933.5	7.0
30°-40°	4363.2	10.4
40°-50°	6428.6	15.3
50°-60°	9000.1	21.5
60°-70°	10066.4	24.0
70°-80°	6148.9	14.7
80°-90°	791.0	1.9
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°	41927.0	100.0
0°-180°	41927.0	100.0

**Coefficient of Utilization**



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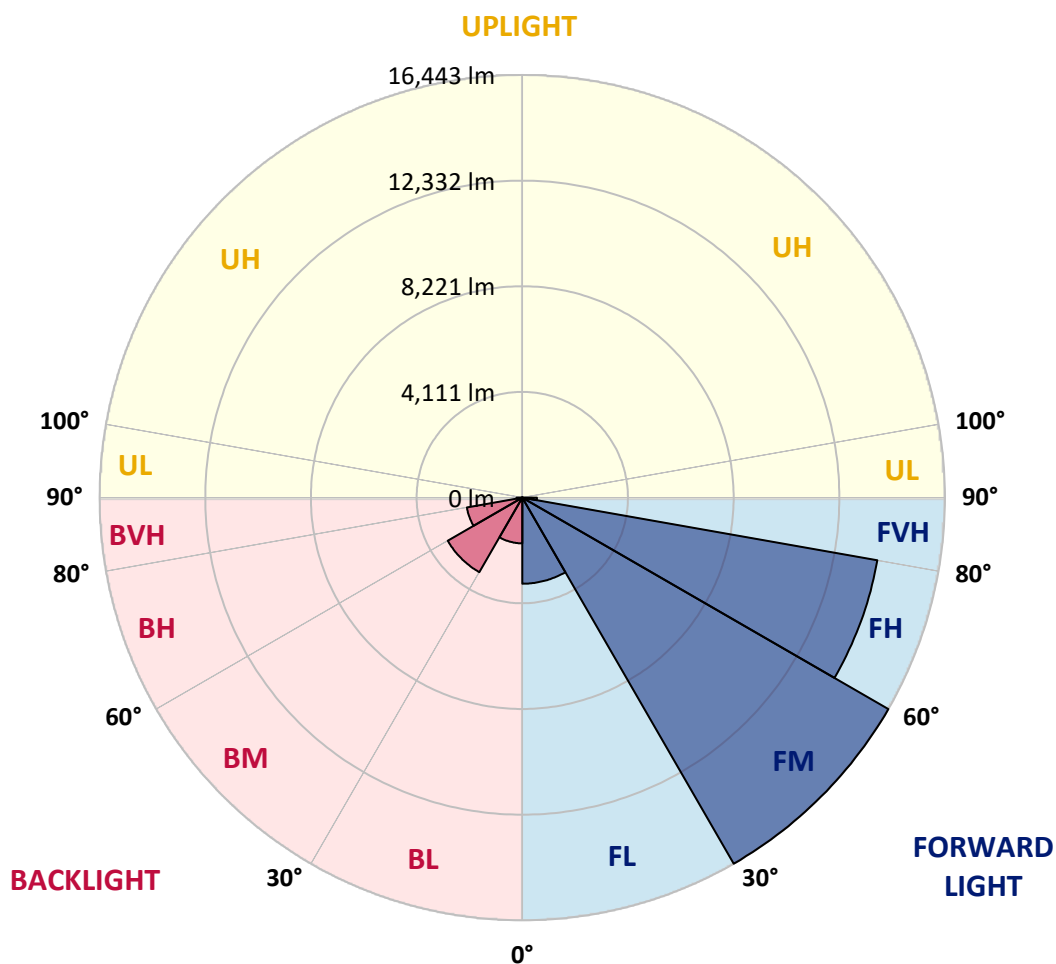
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3350.0	8.0			
FM	(30°-60°)	16442.9	39.2			
FH	(60°-80°)	14024.5	33.4			G5
FVH	(80°-90°)	569.1	1.4			G4/750
BL	(0°-30°)	1778.8	4.2	B3/2500		
BM	(30°-60°)	3349.0	8.0	B3/5000		
BH	(60°-80°)	2190.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	221.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7
2.5°	5712.6	5684.9	5687.2	5648.1	5597.4	5542.1	5463.7	5394.6	5339.3	5307.0	5212.5
5°	6330.2	6302.5	6268.0	6182.7	6145.8	6009.9	5837.0	5680.3	5560.5	5493.7	5304.7
7.5°	6830.2	6823.3	6814.1	6765.7	6671.2	6482.3	6334.8	6062.9	5885.4	5758.7	5436.1
10°	7139.0	7150.5	7157.4	7166.7	7127.5	7028.4	6825.6	6482.3	6256.4	6095.1	5606.6
12.5°	7295.7	7307.2	7346.4	7431.7	7484.7	7473.2	7307.2	6970.8	6659.7	6447.7	5788.6
15°	7392.5	7410.9	7480.1	7593.0	7770.4	7883.3	7802.7	7491.6	7150.5	6899.4	6005.3
17.5°	7498.5	7519.2	7595.3	7756.6	7989.3	8233.6	8321.2	8053.9	7682.9	7383.3	6247.2
20°	7558.4	7586.1	7694.4	7906.4	8178.3	8533.2	8823.5	8683.0	8277.4	7945.6	6526.0
22.5°	7655.2	7678.2	7770.4	7996.2	8321.2	8765.9	9325.9	9295.9	8938.7	8510.1	6832.5
25°	7917.9	7954.8	8000.9	8136.8	8450.2	9003.3	9743.0	9950.4	9579.4	9100.1	7113.7
27.5°	8413.3	8443.3	8441.0	8459.4	8636.9	9208.4	10104.8	10597.9	10215.4	9696.9	7385.6
30°	8977.9	8989.4	8998.7	8957.2	8996.4	9418.1	10436.6	11238.5	10856.0	10309.9	7622.9
32.5°	9664.6	9687.7	9609.3	9503.3	9471.1	9729.2	10710.8	11879.2	11614.1	10932.0	7858.0
35°	10475.8	10535.7	10376.7	10190.0	10058.7	10176.2	11079.5	12533.6	12390.7	11727.1	8169.1
37.5°	11402.1	11475.9	11328.4	10962.0	10775.3	10807.6	11561.1	13342.4	13372.4	12632.7	8632.3
40°	12160.3	12257.1	12261.7	11743.2	11459.8	11496.6	12171.8	14213.5	14556.9	13752.6	9178.4
42.5°	12660.3	12754.8	12853.9	12549.7	12252.5	12462.2	12883.9	15158.3	15888.8	15112.2	9941.2
45°	13208.8	13294.1	13349.4	13211.1	13045.2	13589.0	13743.4	16163.0	17308.3	16630.8	10775.3
47.5°	13844.8	13939.3	13992.3	13860.9	13798.7	14577.6	14669.8	17100.9	18824.6	18105.6	11697.1
50°	14692.8	14764.3	14736.6	14653.6	14639.8	15335.7	15559.3	17978.9	20075.9	19693.4	12653.4
52.5°	15748.2	15833.5	15863.4	15745.9	15692.9	15877.3	16275.9	18778.5	21214.3	21057.6	13674.3
55°	16386.5	16522.5	16978.8	17163.1	17289.9	16577.8	17047.9	19661.1	22235.1	22495.5	14771.2
57.5°	15568.5	15743.6	16764.5	17686.2	18877.6	18329.2	18142.5	20582.8	23255.9	23889.7	16084.7
60°	13572.9	13612.1	14927.9	16626.2	19022.8	20580.5	20426.2	22048.4	24362.1	25295.3	17815.3
62.5°	9415.8	9498.7	11054.2	13764.1	17230.0	21391.7	24311.4	24578.7	25947.5	27399.2	20352.4
65°	4855.4	4747.1	6164.3	8650.7	12989.9	19465.2	27459.2	29231.2	29385.6	30689.9	23924.2
67.5°	2988.8	3037.2	3700.9	5051.2	7680.5	14146.7	27129.6	34916.2	34102.7	34729.5	27240.2
70°	2244.5	2304.4	2760.7	3456.6	4682.5	8088.4	21818.0	36294.2	37430.3	37269.0	28249.6
71°	1951.8	2014.0	2488.7	3145.5	3933.6	6242.6	18382.2	34851.7	37545.5	37517.8	27869.3
72.5°	1663.8	1702.9	2074.0	2663.9	3316.0	4376.0	13810.2	31256.8	35943.9	36863.4	26512.1
75°	1306.6	1336.5	1502.5	2032.5	2610.9	2686.9	7410.9	23433.4	29521.6	31272.9	22071.5
77.5°	1064.6	1085.4	1170.6	1509.4	2014.0	1903.4	3887.5	15252.8	18495.1	20257.9	13001.4
80°	845.7	868.8	919.5	1023.2	1509.4	1357.3	1855.0	7728.9	8934.1	8915.7	5189.5
82.5°	656.8	663.7	723.6	751.2	1032.4	963.2	1004.7	3272.2	3624.8	3744.6	1873.5
85°	414.8	435.5	640.6	576.1	617.6	564.6	495.4	1299.7	1601.6	1578.5	748.9
87.5°	126.7	133.7	216.6	244.3	274.2	246.6	182.0	382.5	467.8	507.0	186.7
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°	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7	5145.7
2.5°	5175.7	5150.3	5060.4	4986.7	4917.6	4841.5	4777.0	4758.6	4742.4	4735.5	4733.2
5°	5224.1	5148.0	4970.6	4825.4	4710.2	4604.2	4537.4	4507.4	4477.4	4477.4	4486.7
7.5°	5293.2	5154.9	4880.7	4664.1	4518.9	4419.8	4371.4	4366.8	4373.7	4380.7	4383.0
10°	5369.2	5150.3	4749.4	4479.7	4350.7	4304.6	4306.9	4346.1	4383.0	4410.6	4415.2
12.5°	5443.0	5122.7	4595.0	4306.9	4224.0	4233.2	4297.7	4385.3	4456.7	4495.9	4498.2
15°	5525.9	5078.9	4408.3	4143.3	4115.6	4187.1	4306.9	4440.6	4548.9	4613.4	4620.3
17.5°	5595.1	5005.1	4212.4	3984.3	4018.9	4150.2	4316.1	4489.0	4620.3	4701.0	4714.8
20°	5673.4	4910.7	4009.6	3832.2	3931.3	4108.7	4297.7	4484.4	4620.3	4698.7	4717.1
22.5°	5735.6	4777.0	3816.1	3707.8	3852.9	4058.0	4235.5	4385.3	4495.9	4537.4	4565.0
25°	5761.0	4608.8	3634.0	3606.4	3790.7	3975.1	4094.9	4180.2	4214.7	4210.1	4221.7
27.5°	5747.2	4415.2	3477.3	3525.7	3712.4	3846.0	3905.9	3899.0	3836.8	3779.2	3806.9
30°	5689.5	4184.8	3346.0	3442.8	3611.0	3684.7	3675.5	3585.6	3468.1	3359.8	3366.7
32.5°	5585.9	3935.9	3223.8	3348.3	3468.1	3500.4	3438.2	3320.6	3152.4	3011.8	2991.1
35°	5498.3	3698.6	3115.5	3240.0	3325.2	3309.1	3249.2	3097.1	2945.0	2820.6	2799.8
37.5°	5484.5	3495.8	3011.8	3117.8	3166.2	3143.2	3069.5	2940.4	2885.1	2790.6	2779.1
40°	5558.2	3352.9	2905.8	2988.8	3011.8	2993.4	2912.8	2839.0	2889.7	2866.7	2866.7
42.5°	5758.7	3276.8	2811.4	2859.8	2878.2	2892.0	2834.4	2772.2	2834.4	2728.4	2693.8
45°	6076.7	3279.2	2726.1	2733.0	2788.3	2836.7	2797.5	2705.4	2673.1	2461.1	2419.6
47.5°	6544.5	3357.5	2657.0	2613.2	2712.3	2792.9	2737.6	2604.0	2461.1	2320.5	2295.2
50°	7090.6	3498.1	2594.7	2488.7	2610.9	2737.6	2696.1	2539.4	2392.0	2306.7	2290.6
52.5°	7696.7	3675.5	2518.7	2350.5	2486.4	2712.3	2705.4	2530.2	2327.4	2269.8	2256.0
55°	8445.6	3850.6	2424.2	2189.2	2375.8	2691.5	2680.0	2454.2	2313.6	2272.1	2267.5
57.5°	9316.7	4104.1	2288.3	2025.6	2249.1	2606.3	2580.9	2408.1	2267.5	2237.6	2235.3
60°	10720.0	4498.2	2094.7	1875.8	2120.0	2456.5	2488.7	2329.7	2193.8	2186.9	2184.6
62.5°	12565.9	5051.2	1894.2	1721.4	1970.3	2262.9	2355.1	2223.7	2115.4	2150.0	2154.6
65°	15114.5	5516.7	1686.8	1590.0	1804.3	2076.3	2228.3	2124.7	2027.9	2094.7	2094.7
67.5°	16776.0	5525.9	1497.9	1454.1	1636.1	1919.6	2094.7	2007.1	1915.0	2027.9	2032.5
70°	16430.3	4841.5	1341.2	1311.2	1472.5	1751.3	1947.2	1878.1	1772.1	1873.5	1836.6
71°	15872.7	4461.3	1278.9	1255.9	1408.0	1670.7	1878.1	1820.5	1714.5	1781.3	1760.6
72.5°	14983.2	3873.7	1177.5	1182.2	1311.2	1569.3	1781.3	1721.4	1615.4	1652.3	1645.3
75°	12665.0	3382.9	1007.0	1027.8	1126.8	1396.5	1587.7	1541.6	1433.3	1433.3	1426.4
77.5°	7917.9	2364.3	836.5	848.0	956.3	1196.0	1364.2	1325.0	1221.3	1186.8	1177.5
80°	2954.2	1221.3	654.4	668.3	735.1	942.5	1129.2	1092.3	986.3	947.1	910.2
82.5°	1117.6	613.0	481.6	470.1	541.5	719.0	884.9	841.1	758.1	663.7	636.0
85°	421.7	304.2	295.0	285.7	318.0	426.3	548.4	539.2	451.7	384.8	377.9
87.5°	110.6	99.1	115.2	85.3	89.9	80.7	83.0	34.6	16.1	6.9	4.6
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)