

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: P647020

Luminaire Tested: **GALN-SA6C-835-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647020  
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-835-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32828.9 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

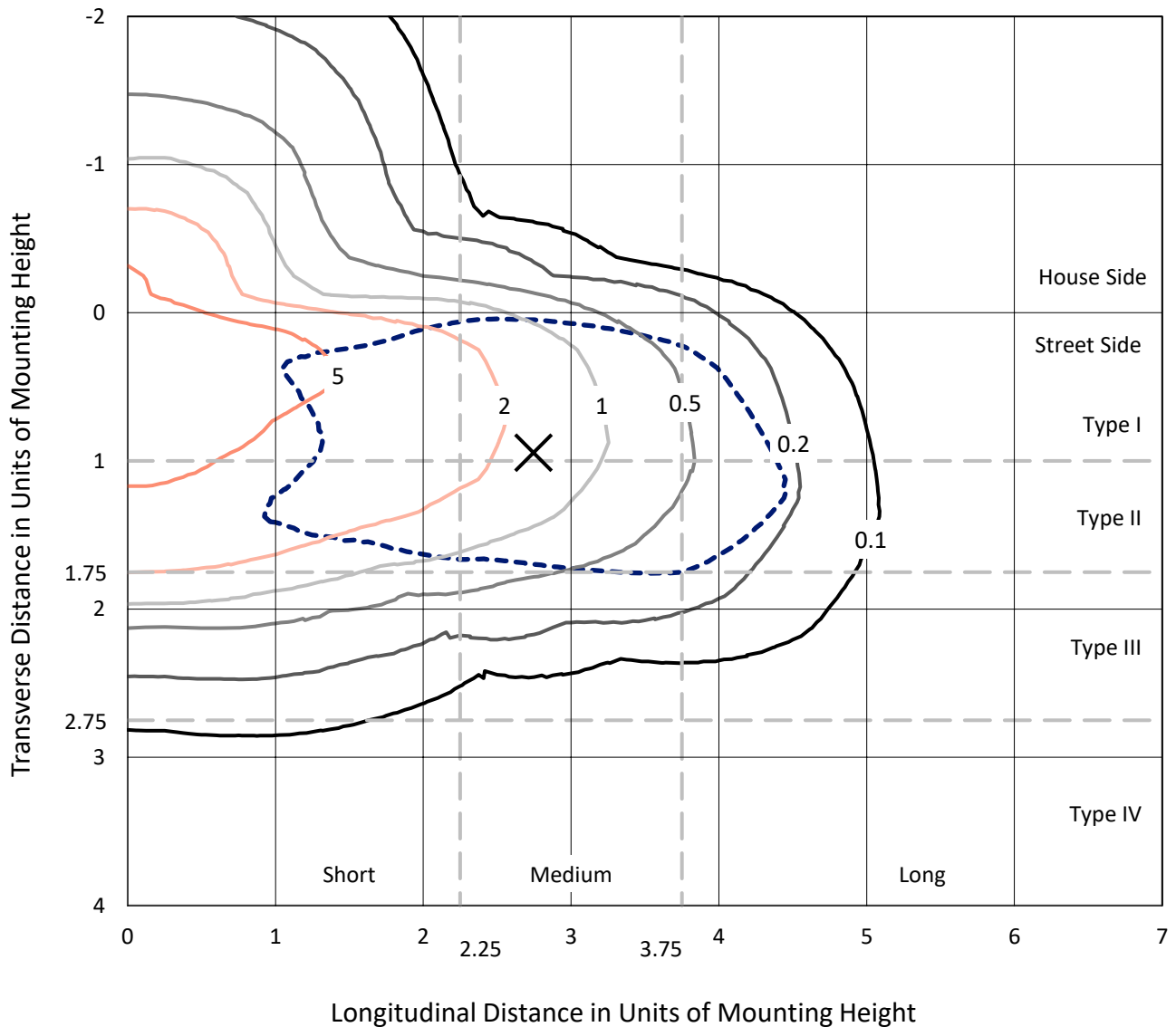
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

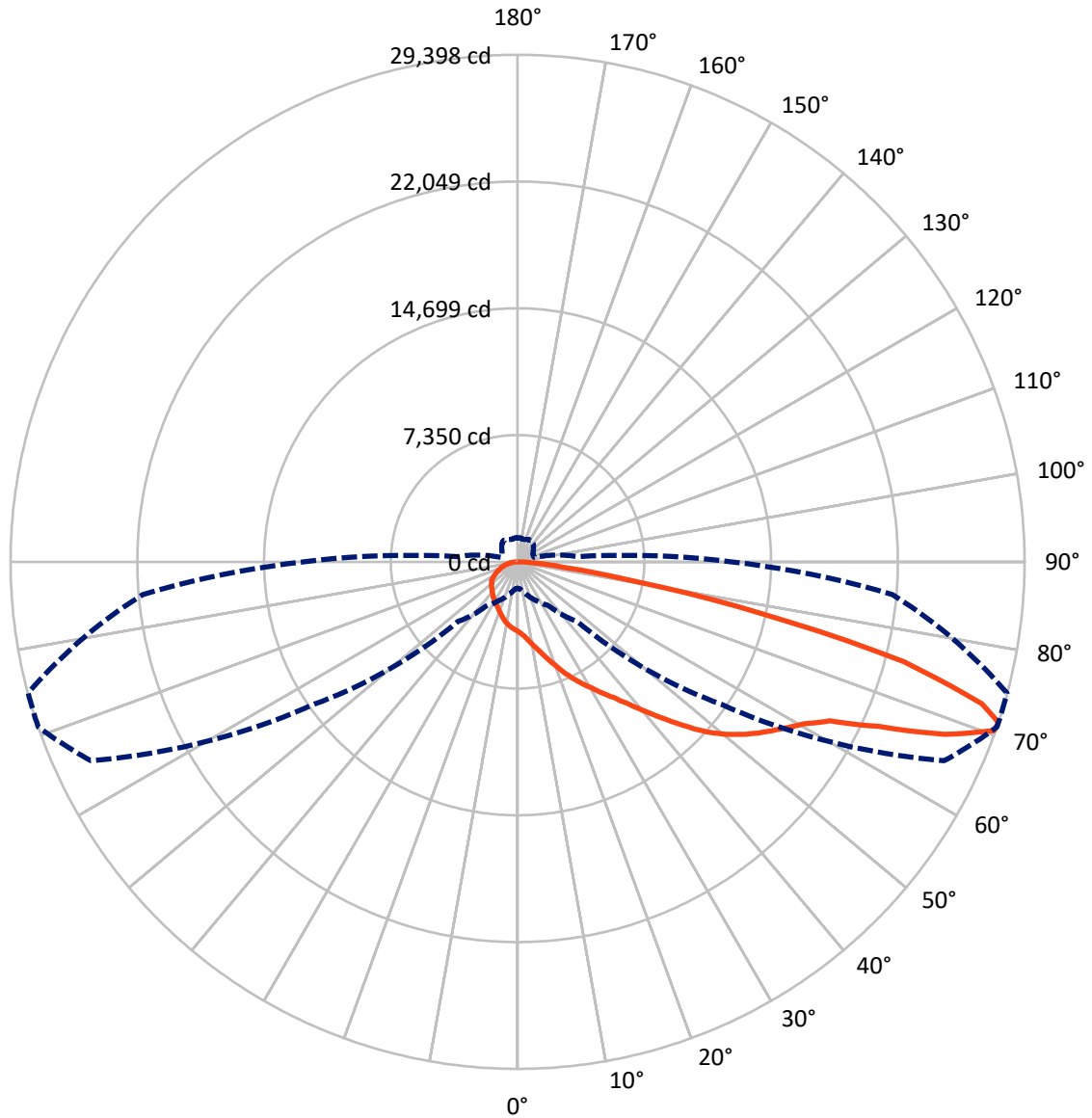
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	5904.2	0.0	5904.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	26924.7	0.0	26924.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	32828.9	0.0	32828.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.6	1.2
10°-20°	1314.3	4.0
20°-30°	2296.9	7.0
30°-40°	3416.4	10.4
40°-50°	5033.6	15.3
50°-60°	7047.1	21.5
60°-70°	7882.0	24.0
70°-80°	4814.6	14.7
80°-90°	619.4	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°	32828.9	100.0
0°-180°	32828.9	100.0

**Coefficient of Utilization**



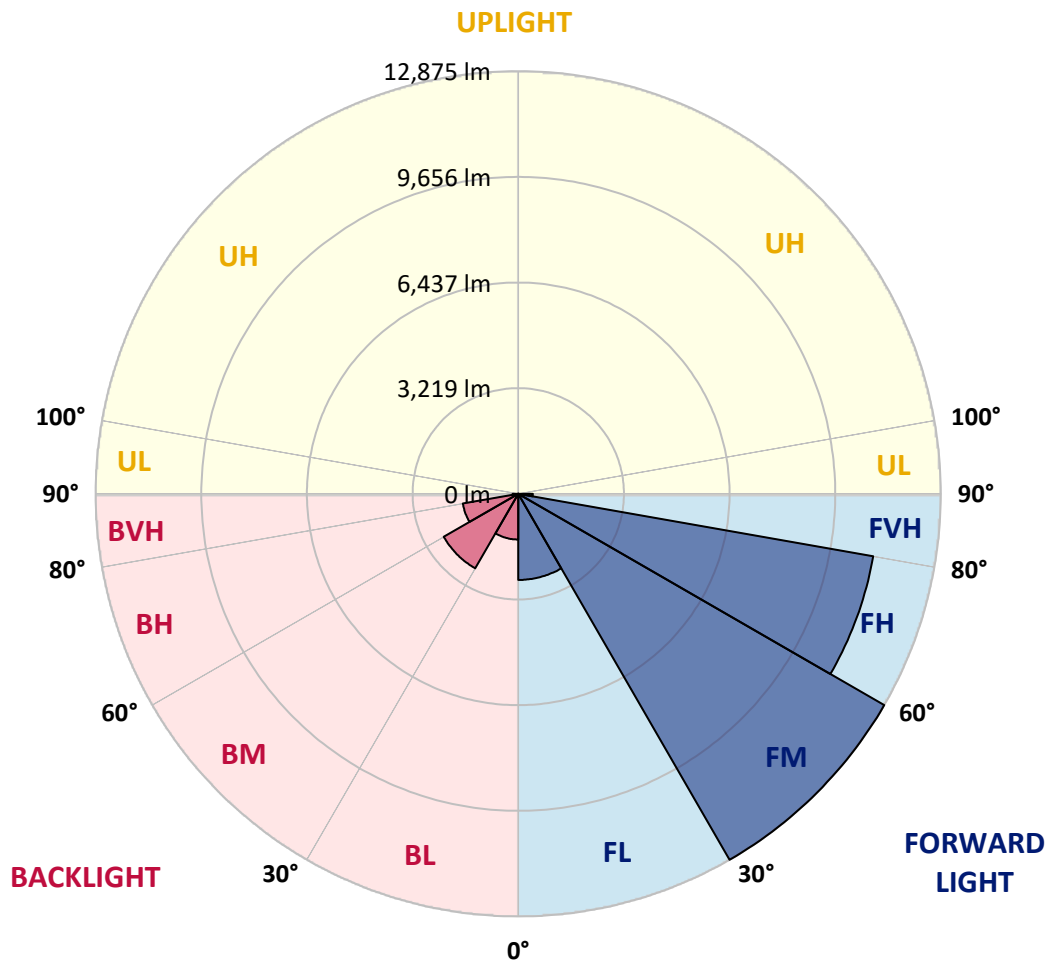
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.0	8.0			
FM (30°-60°)	12874.8	39.2			
FH (60°-80°)	10981.1	33.4			G4/12000
FVH (80°-90°)	445.7	1.4			G3/500
BL (0°-30°)	1392.8	4.2	B3/2500		
BM (30°-60°)	2622.2	8.0	B3/5000		
BH (60°-80°)	1715.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	173.7	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1
2.5°	4473.0	4451.3	4453.1	4422.5	4382.8	4339.5	4278.1	4224.0	4180.7	4155.4	4081.4
5°	4956.5	4934.9	4907.8	4841.1	4812.2	4705.8	4570.4	4447.7	4353.9	4301.6	4153.6
7.5°	5348.0	5342.6	5335.4	5297.5	5223.5	5075.6	4960.1	4747.3	4608.3	4509.1	4256.5
10°	5589.8	5598.8	5604.2	5611.5	5580.8	5503.2	5344.4	5075.6	4898.8	4772.5	4390.0
12.5°	5712.5	5721.5	5752.2	5819.0	5860.5	5851.5	5721.5	5458.1	5214.5	5048.5	4532.5
15°	5788.3	5802.7	5856.9	5945.3	6084.2	6172.6	6109.5	5865.9	5598.8	5402.2	4702.1
17.5°	5871.3	5887.5	5947.1	6073.4	6255.6	6446.9	6515.5	6306.2	6015.7	5781.1	4891.6
20°	5918.2	5939.9	6024.7	6190.7	6403.6	6681.5	6908.8	6798.8	6481.2	6221.4	5109.9
22.5°	5994.0	6012.0	6084.2	6261.0	6515.5	6863.7	7302.2	7278.7	6999.0	6663.4	5349.8
25°	6199.7	6228.6	6264.7	6371.1	6616.5	7049.6	7628.8	7791.2	7500.7	7125.4	5570.0
27.5°	6587.6	6611.1	6609.3	6623.7	6762.7	7210.2	7912.1	8298.2	7998.7	7592.7	5782.9
30°	7029.7	7038.7	7046.0	7013.5	7044.2	7374.4	8171.9	8799.7	8500.2	8072.7	5968.7
32.5°	7567.4	7585.5	7524.1	7441.1	7415.9	7618.0	8386.6	9301.4	9093.8	8559.8	6152.8
35°	8202.6	8249.5	8125.0	7978.8	7876.0	7968.0	8675.2	9813.8	9701.9	9182.3	6396.4
37.5°	8927.8	8985.6	8870.1	8583.2	8437.1	8462.4	9052.3	10447.1	10470.6	9891.4	6759.1
40°	9521.5	9597.3	9600.9	9194.9	8973.0	9001.8	9530.5	11129.2	11398.1	10768.3	7186.7
42.5°	9913.0	9987.0	10064.6	9826.4	9593.7	9757.9	10088.1	11868.9	12440.9	11832.9	7784.0
45°	10342.5	10409.3	10452.6	10344.3	10214.4	10640.2	10761.1	12655.6	13552.4	13021.9	8437.1
47.5°	10840.5	10914.5	10956.0	10853.1	10804.4	11414.3	11486.5	13390.0	14739.7	14176.7	9158.8
50°	11504.5	11560.4	11538.8	11473.8	11463.0	12007.9	12182.9	14077.5	15719.4	15419.9	9907.6
52.5°	12330.8	12397.6	12421.0	12329.0	12287.5	12431.9	12744.0	14703.6	16610.8	16488.1	10707.0
55°	12830.6	12937.1	13294.4	13438.7	13538.0	12980.4	13348.5	15394.6	17410.1	17614.0	11565.8
57.5°	12190.1	12327.2	13126.6	13848.3	14781.2	14351.8	14205.6	16116.3	18209.4	18705.6	12594.3
60°	10627.6	10658.3	11688.5	13018.3	14894.9	16114.5	15993.7	17263.9	19075.5	19806.2	13949.4
62.5°	7372.6	7437.5	8655.4	10777.3	13491.1	16749.7	19035.8	19245.1	20316.9	21453.6	15935.9
65°	3801.8	3717.0	4826.6	6773.5	10171.1	15241.3	21500.6	22888.0	23008.9	24030.2	18732.6
67.5°	2340.2	2378.1	2897.8	3955.1	6013.8	11076.9	21242.5	27339.4	26702.4	27193.2	21329.1
70°	1757.4	1804.3	2161.6	2706.5	3666.4	6333.2	17083.5	28418.4	29307.9	29181.6	22119.4
71°	1528.3	1577.0	1948.7	2462.9	3080.0	4888.0	14393.3	27288.9	29398.1	29376.4	21821.7
72.5°	1302.8	1333.4	1623.9	2085.8	2596.4	3426.4	10813.4	24474.1	28144.1	28864.0	20759.0
75°	1023.1	1046.5	1176.5	1591.4	2044.3	2103.8	5802.7	18348.4	23115.4	24486.7	17282.0
77.5°	833.6	849.9	916.6	1181.9	1577.0	1490.4	3043.9	11942.9	14481.7	15861.9	10180.1
80°	662.2	680.3	720.0	801.2	1181.9	1062.8	1452.5	6051.7	6995.4	6981.0	4063.4
82.5°	514.3	519.7	566.6	588.2	808.4	754.2	786.7	2562.1	2838.2	2932.0	1467.0
85°	324.8	341.0	501.6	451.1	483.6	442.1	387.9	1017.7	1254.1	1236.0	586.4
87.5°	99.2	104.7	169.6	191.3	214.7	193.1	142.5	299.5	366.3	397.0	146.2
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°	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1	4029.1
2.5°	4052.6	4032.7	3962.3	3904.6	3850.5	3790.9	3740.4	3726.0	3713.3	3707.9	3706.1
5°	4090.5	4030.9	3892.0	3778.3	3688.1	3605.1	3552.8	3529.3	3505.8	3505.8	3513.1
7.5°	4144.6	4036.3	3821.6	3652.0	3538.3	3460.7	3422.8	3419.2	3424.6	3430.1	3431.9
10°	4204.1	4032.7	3718.8	3507.6	3406.6	3370.5	3372.3	3403.0	3431.9	3453.5	3457.1
12.5°	4261.9	4011.1	3597.9	3372.3	3307.4	3314.6	3365.1	3433.7	3489.6	3520.3	3522.1
15°	4326.8	3976.8	3451.7	3244.2	3222.5	3278.5	3372.3	3477.0	3561.8	3612.3	3617.7
17.5°	4381.0	3919.0	3298.3	3119.7	3146.8	3249.6	3379.5	3514.9	3617.7	3680.9	3691.7
20°	4442.3	3845.1	3139.5	3000.6	3078.2	3217.1	3365.1	3511.3	3617.7	3679.1	3693.5
22.5°	4491.0	3740.4	2988.0	2903.2	3016.8	3177.4	3316.4	3433.7	3520.3	3552.8	3574.4
25°	4510.9	3608.7	2845.4	2823.8	2968.1	3112.5	3206.3	3273.1	3300.1	3296.5	3305.6
27.5°	4500.1	3457.1	2722.7	2760.6	2906.8	3011.4	3058.3	3052.9	3004.2	2959.1	2980.8
30°	4454.9	3276.7	2619.9	2695.7	2827.4	2885.1	2877.9	2807.5	2715.5	2630.7	2636.1
32.5°	4373.8	3081.8	2524.2	2621.7	2715.5	2740.8	2692.1	2600.0	2468.3	2358.2	2342.0
35°	4305.2	2896.0	2439.4	2536.9	2603.6	2591.0	2544.1	2425.0	2305.9	2208.5	2192.2
37.5°	4294.4	2737.2	2358.2	2441.2	2479.1	2461.1	2403.4	2302.3	2259.0	2185.0	2176.0
40°	4352.1	2625.3	2275.2	2340.2	2358.2	2343.8	2280.7	2222.9	2262.6	2244.6	2244.6
42.5°	4509.1	2565.7	2201.3	2239.2	2253.6	2264.4	2219.3	2170.6	2219.3	2136.3	2109.2
45°	4758.1	2567.6	2134.5	2139.9	2183.2	2221.1	2190.4	2118.3	2093.0	1927.0	1894.5
47.5°	5124.3	2628.9	2080.4	2046.1	2123.7	2186.8	2143.5	2038.9	1927.0	1817.0	1797.1
50°	5551.9	2739.0	2031.7	1948.7	2044.3	2143.5	2111.0	1988.4	1872.9	1806.1	1793.5
52.5°	6026.5	2877.9	1972.1	1840.4	1946.9	2123.7	2118.3	1981.1	1822.4	1777.3	1766.4
55°	6612.9	3015.0	1898.1	1714.1	1860.3	2107.4	2098.4	1921.6	1811.5	1779.1	1775.5
57.5°	7295.0	3213.5	1791.7	1586.0	1761.0	2040.7	2020.8	1885.5	1775.5	1752.0	1750.2
60°	8393.8	3522.1	1640.2	1468.8	1660.0	1923.4	1948.7	1824.2	1717.7	1712.3	1710.5
62.5°	9839.1	3955.1	1483.2	1347.9	1542.7	1771.9	1844.0	1741.2	1656.4	1683.4	1687.1
65°	11834.7	4319.6	1320.8	1245.0	1412.8	1625.7	1744.8	1663.6	1587.8	1640.2	1640.2
67.5°	13135.6	4326.8	1172.9	1138.6	1281.1	1503.0	1640.2	1571.6	1499.4	1587.8	1591.4
70°	12864.9	3790.9	1050.2	1026.7	1153.0	1371.3	1524.7	1470.6	1387.6	1467.0	1438.1
71°	12428.3	3493.2	1001.4	983.4	1102.5	1308.2	1470.6	1425.5	1342.5	1394.8	1378.5
72.5°	11731.8	3033.1	922.0	925.7	1026.7	1228.8	1394.8	1347.9	1264.9	1293.8	1288.3
75°	9916.7	2648.8	788.5	804.8	882.3	1093.5	1243.2	1207.1	1122.3	1122.3	1116.9
77.5°	6199.7	1851.2	655.0	664.0	748.8	936.5	1068.2	1037.5	956.3	929.3	922.0
80°	2313.1	956.3	512.4	523.3	575.6	738.0	884.2	855.3	772.3	741.6	712.7
82.5°	875.1	480.0	377.1	368.1	424.0	563.0	692.9	658.6	593.6	519.7	498.0
85°	330.2	238.2	231.0	223.7	249.0	333.8	429.4	422.2	353.7	301.3	295.9
87.5°	86.6	77.6	90.2	66.8	70.4	63.2	65.0	27.1	12.6	5.4	3.6
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)