

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: P459028

Luminaire Tested: **GALN-SA5B-735-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26324 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

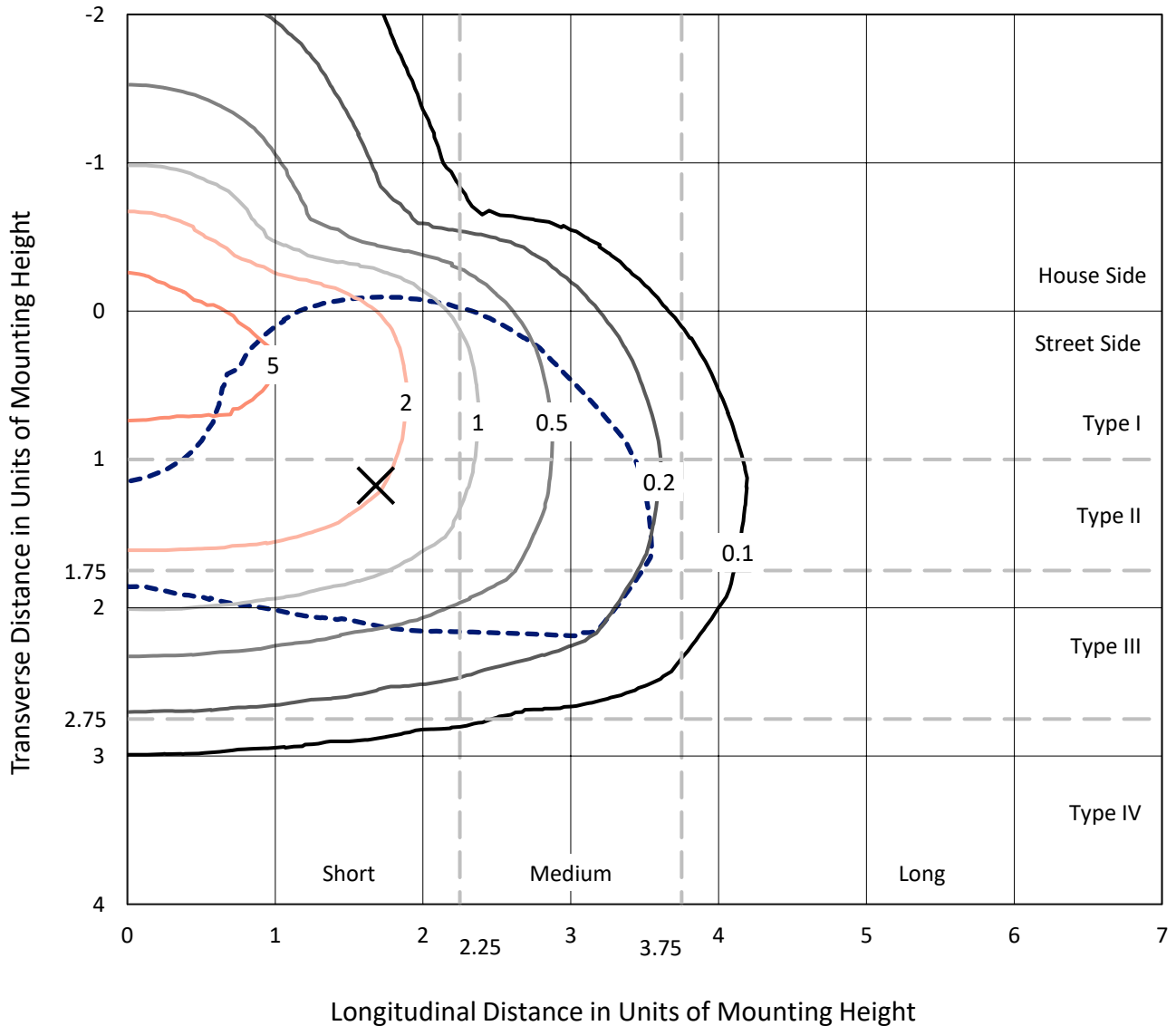
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

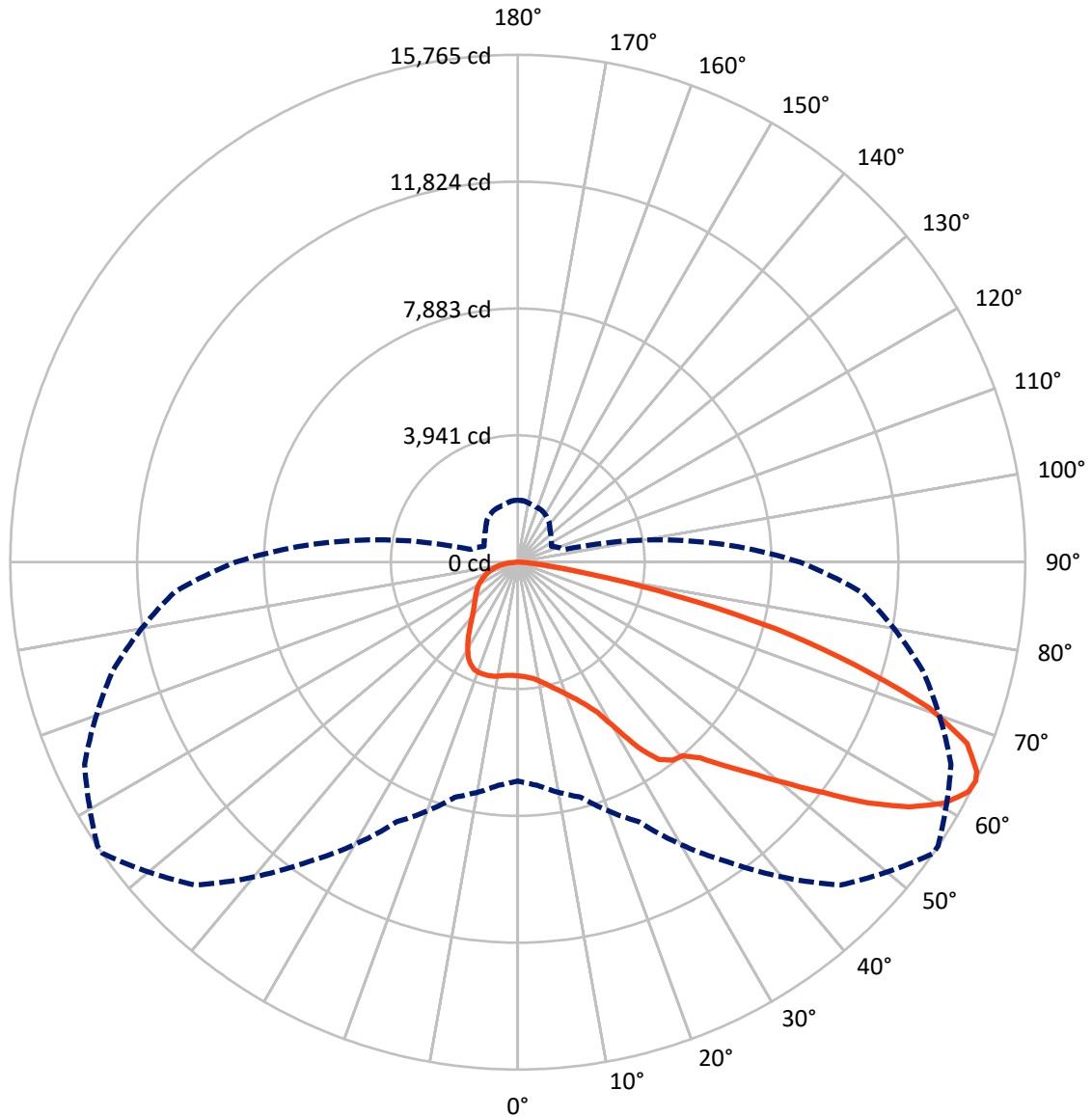
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6394.6	0.0	6394.6
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	19929.4	0.0	19929.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	26324.0	0.0	26324.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.6	1.3
10°-20°	1084.0	4.1
20°-30°	1929.9	7.3
30°-40°	2969.3	11.3
40°-50°	4209.2	16.0
50°-60°	6092.7	23.1
60°-70°	6305.3	24.0
70°-80°	2952.8	11.2
80°-90°	437.1	1.7
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°	26324.0	100.0
0°-180°	26324.0	100.0



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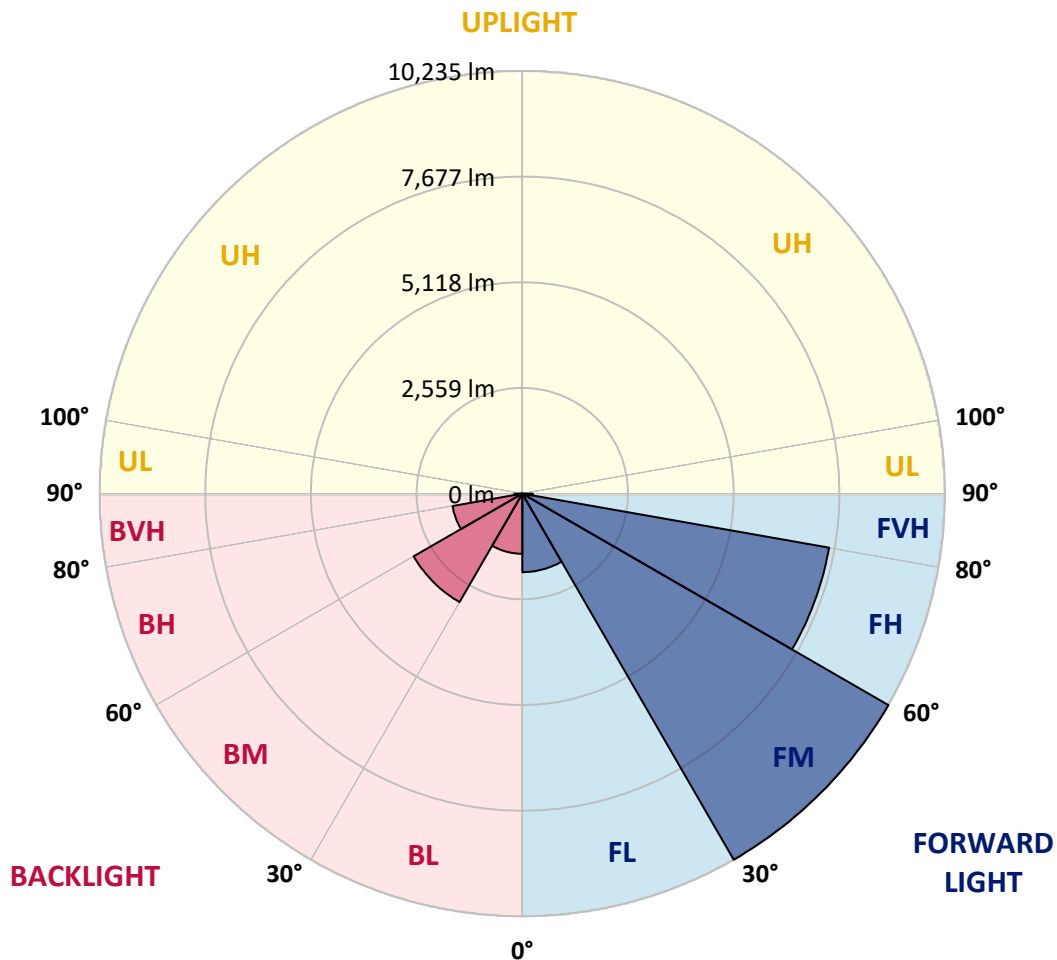
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1901.0	7.2			
FM	(30°-60°)	10235.5	38.9			
FH	(60°-80°)	7542.6	28.7			G4/12000
FVH	(80°-90°)	250.3	1.0			G3/500
BL	(0°-30°)	1456.4	5.5	B3/2500		
BM	(30°-60°)	3035.8	11.5	B3/5000		
BH	(60°-80°)	1715.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	186.8	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9
2.5°	3571.5	3570.0	3574.4	3570.0	3573.0	3562.7	3558.3	3561.2	3556.8	3549.5	3536.3
5°	3615.5	3614.1	3615.5	3609.7	3612.6	3606.7	3596.4	3599.4	3592.0	3575.9	3556.8
7.5°	3690.4	3684.5	3684.5	3683.0	3677.2	3668.3	3661.0	3658.1	3650.7	3630.2	3600.9
10°	3787.2	3787.2	3788.7	3776.9	3784.3	3768.1	3760.8	3759.3	3734.4	3708.0	3666.9
12.5°	3914.9	3922.2	3917.8	3911.9	3909.0	3903.1	3878.2	3884.0	3856.2	3810.7	3760.8
15°	4073.3	4085.1	4077.7	4074.8	4067.5	4045.5	4035.2	4030.8	3994.1	3928.1	3862.0
17.5°	4283.2	4268.5	4262.6	4255.3	4224.5	4208.3	4190.7	4187.8	4155.5	4077.7	3975.0
20°	4466.6	4487.1	4475.4	4468.0	4437.2	4406.4	4393.2	4388.8	4360.9	4275.8	4111.5
22.5°	4685.2	4689.6	4694.0	4676.4	4661.7	4638.3	4614.8	4607.4	4597.2	4509.1	4308.1
25°	4918.5	4936.1	4921.5	4903.8	4886.2	4884.8	4906.8	4903.8	4899.4	4814.3	4569.3
27.5°	5298.6	5314.7	5319.1	5300.0	5232.5	5238.4	5288.3	5304.4	5371.9	5231.1	4905.3
30°	5512.8	5528.9	5565.6	5637.5	5744.6	5838.5	5958.9	5995.5	6060.1	5794.5	5304.4
32.5°	5644.9	5650.7	5716.8	5850.3	6171.6	6522.3	6849.5	6862.7	6903.8	6531.1	5669.8
35°	5853.2	5857.6	5910.4	6057.2	6434.3	7018.3	7524.5	7540.7	7506.9	6760.0	5840.0
37.5°	6110.0	6121.7	6155.5	6277.3	6727.8	7433.5	7804.8	7793.0	7493.7	6942.0	6140.8
40°	6484.2	6484.2	6444.6	6608.9	7037.4	7671.3	7903.1	7882.5	7803.3	7468.8	6598.6
42.5°	6814.3	6808.5	6902.4	7013.9	7424.7	8038.1	8315.4	8349.2	8479.8	8130.5	7119.5
45°	7244.3	7270.7	7323.5	7526.0	8083.6	8664.6	9022.7	9055.0	9239.8	8909.7	7728.5
47.5°	7678.6	7687.4	7853.2	8123.2	8899.4	9514.2	9807.7	9860.5	10029.3	9820.9	8384.4
50°	7986.7	8070.4	8336.0	8761.5	9740.2	10550.2	10779.1	10842.2	11140.0	10812.8	9148.9
52.5°	8312.5	8394.6	8718.9	9367.5	10705.7	11609.6	11891.3	11933.9	12243.5	11816.5	9931.0
55°	8591.3	8667.6	9035.9	9904.5	11474.6	12691.0	13201.7	13151.8	13300.0	12589.8	10534.0
57.5°	8636.8	8698.4	9162.1	10247.9	12052.7	13618.4	14350.6	14379.9	14208.2	13167.9	11031.5
60°	8284.6	8410.8	8943.4	10211.2	12312.4	14264.0	15207.5	15228.0	14740.9	13464.3	11229.5
62.5°	7661.0	7647.8	8291.9	9621.3	11948.5	14410.7	15712.3	15690.3	14949.3	13322.0	11037.3
64°	6799.7	6958.1	7559.7	8896.5	11361.6	14184.8	15765.1	15753.4	14849.5	13025.6	10710.1
65°	6274.3	6265.5	6859.8	8303.7	10777.6	13844.3	15671.2	15655.0	14641.1	12760.0	10456.3
67.5°	4529.7	4550.2	5137.2	6407.9	8761.5	12513.5	15059.3	14999.1	13819.4	11879.6	9490.8
70°	2743.9	2755.7	3216.4	4250.9	6289.0	10115.8	13574.4	13577.3	12561.9	10564.8	8077.7
72.5°	1445.3	1476.1	1661.0	2413.8	3819.5	7097.5	11012.4	11273.6	10784.9	9016.8	6381.5
75°	804.1	808.5	939.1	1190.0	1948.6	3972.1	8277.3	8352.1	8538.4	7257.5	4719.0
77.5°	613.3	622.2	663.2	768.9	1060.9	1841.5	5009.5	5385.1	6017.6	5116.6	2692.6
80°	497.4	506.2	541.4	604.5	705.8	873.1	2327.2	2529.7	3220.8	2271.4	1050.6
82.5°	387.4	381.5	427.0	468.1	513.6	516.5	955.2	1056.5	1311.8	977.2	454.9
85°	287.6	287.6	324.3	315.5	331.6	302.3	421.1	465.1	525.3	415.3	211.3
87.5°	114.5	126.2	212.8	190.8	148.2	118.9	155.5	164.3	182.0	162.9	88.0
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°	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9	3531.9
2.5°	3537.8	3542.2	3531.9	3524.5	3521.6	3517.2	3512.8	3514.3	3520.1	3526.0	3524.5
5°	3555.4	3556.8	3539.2	3530.4	3524.5	3518.7	3518.7	3523.1	3534.8	3543.6	3543.6
7.5°	3599.4	3599.4	3574.4	3558.3	3549.5	3539.2	3536.3	3537.8	3546.6	3558.3	3559.8
10°	3668.3	3662.5	3630.2	3605.3	3589.1	3564.2	3542.2	3530.4	3534.8	3542.2	3542.2
12.5°	3752.0	3735.8	3694.8	3661.0	3621.4	3574.4	3529.0	3505.5	3504.0	3511.3	3508.4
15°	3841.5	3823.9	3766.7	3705.0	3636.1	3567.1	3512.8	3479.1	3452.6	3445.3	3461.5
17.5°	3945.7	3909.0	3829.8	3744.7	3641.9	3552.4	3467.3	3398.4	3351.4	3338.2	3342.6
20°	4071.9	4023.4	3916.3	3782.8	3637.5	3499.6	3367.5	3275.1	3198.8	3175.3	3178.3
22.5°	4246.5	4162.8	4005.8	3801.9	3600.9	3399.8	3216.4	3096.1	3003.6	2967.0	2989.0
25°	4444.6	4353.6	4090.9	3797.5	3505.5	3239.9	3037.4	2880.4	2796.7	2742.5	2754.2
27.5°	4717.5	4556.1	4181.9	3757.9	3369.0	3044.7	2810.0	2661.8	2585.5	2557.6	2570.8
30°	5066.7	4818.7	4280.2	3650.7	3153.3	2798.2	2581.1	2484.2	2438.7	2403.5	2415.2
32.5°	5319.1	5003.6	4302.2	3470.3	2920.0	2573.7	2425.5	2353.6	2303.7	2270.0	2277.3
35°	5499.6	5160.6	4292.0	3248.7	2676.4	2388.8	2302.3	2243.6	2162.9	2089.5	2076.3
37.5°	5741.7	5357.3	4217.1	3006.6	2435.8	2264.1	2202.5	2093.9	1978.0	1879.7	1875.3
40°	6112.9	5587.6	4057.2	2721.9	2230.4	2171.7	2096.8	1956.0	1831.2	1752.0	1746.1
42.5°	6495.9	5800.4	3840.0	2422.6	2061.6	2074.8	1983.8	1844.4	1768.1	1716.8	1710.9
45°	6964.0	6030.8	3605.3	2162.9	1936.9	1983.8	1885.5	1804.8	1759.3	1725.6	1716.8
47.5°	7470.2	6267.0	3341.1	1929.6	1831.2	1900.2	1844.4	1807.8	1782.8	1759.3	1749.1
50°	8016.1	6531.1	3093.2	1741.7	1735.9	1813.6	1840.0	1826.8	1812.2	1804.8	1796.0
52.5°	8614.8	6801.1	2884.8	1609.7	1652.2	1752.0	1841.5	1851.8	1851.8	1847.4	1841.5
55°	9019.7	6988.9	2673.5	1502.6	1567.1	1702.1	1838.6	1878.2	1892.9	1887.0	1881.1
57.5°	9319.1	7091.7	2407.9	1410.1	1495.2	1653.7	1822.4	1881.1	1895.8	1903.1	1900.2
60°	9380.7	6996.3	2060.1	1313.3	1417.4	1583.3	1763.7	1837.1	1856.2	1901.7	1906.1
62.5°	9103.4	6702.8	1713.9	1217.9	1322.1	1476.1	1684.5	1787.2	1825.4	1895.8	1903.1
64°	8763.0	6374.1	1521.6	1157.7	1260.4	1416.0	1644.9	1774.0	1823.9	1917.8	1923.7
65°	8513.5	6134.9	1401.3	1119.6	1220.8	1376.4	1622.9	1778.4	1837.1	1951.6	1960.4
67.5°	7594.9	5311.8	1159.2	1030.1	1126.9	1308.9	1627.3	1815.1	1834.2	1964.8	1963.3
70°	6284.6	4228.9	971.4	947.9	1035.9	1254.6	1609.7	1756.4	1757.9	1844.4	1823.9
72.5°	4705.8	3125.4	842.3	862.8	934.7	1125.4	1520.2	1677.2	1652.2	1664.0	1643.4
75°	3232.5	2067.5	724.9	771.8	829.0	994.9	1394.0	1523.1	1483.5	1468.8	1454.1
77.5°	1725.6	1143.1	603.1	682.3	720.5	859.9	1216.4	1341.1	1300.1	1242.8	1223.8
80°	698.5	538.5	485.7	564.9	586.9	692.6	1012.5	1090.2	1059.4	959.6	927.4
82.5°	350.7	322.8	381.5	444.6	446.1	494.5	752.7	826.1	757.1	635.4	607.5
85°	183.4	189.3	262.7	312.5	275.9	267.1	451.9	500.4	459.3	399.1	359.5
87.5°	66.0	76.3	137.9	136.5	96.8	51.4	99.8	48.4	26.4	16.1	20.5
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)