

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: P531934

Luminaire Tested: **GALN-SA7B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
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-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31718 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

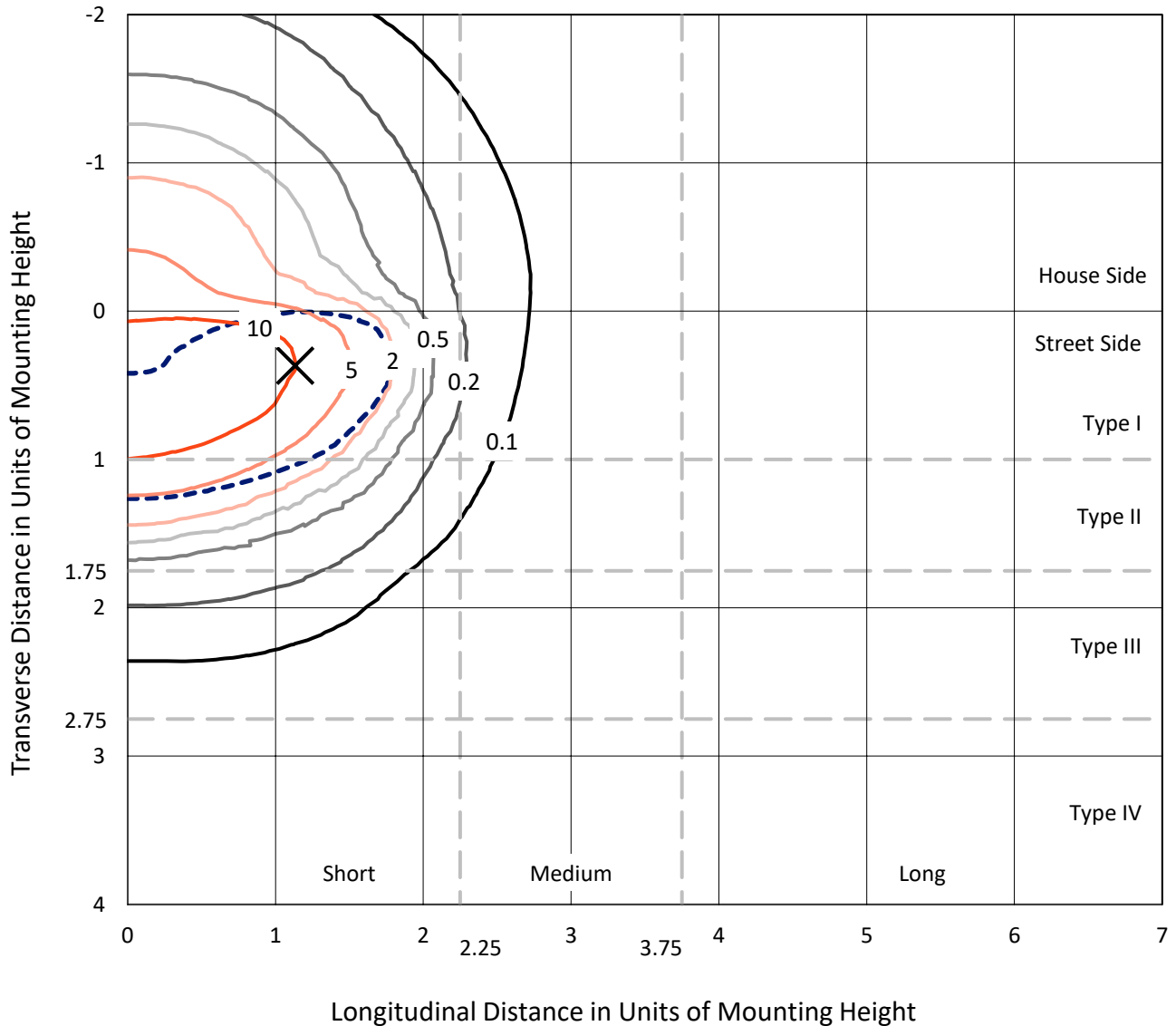
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

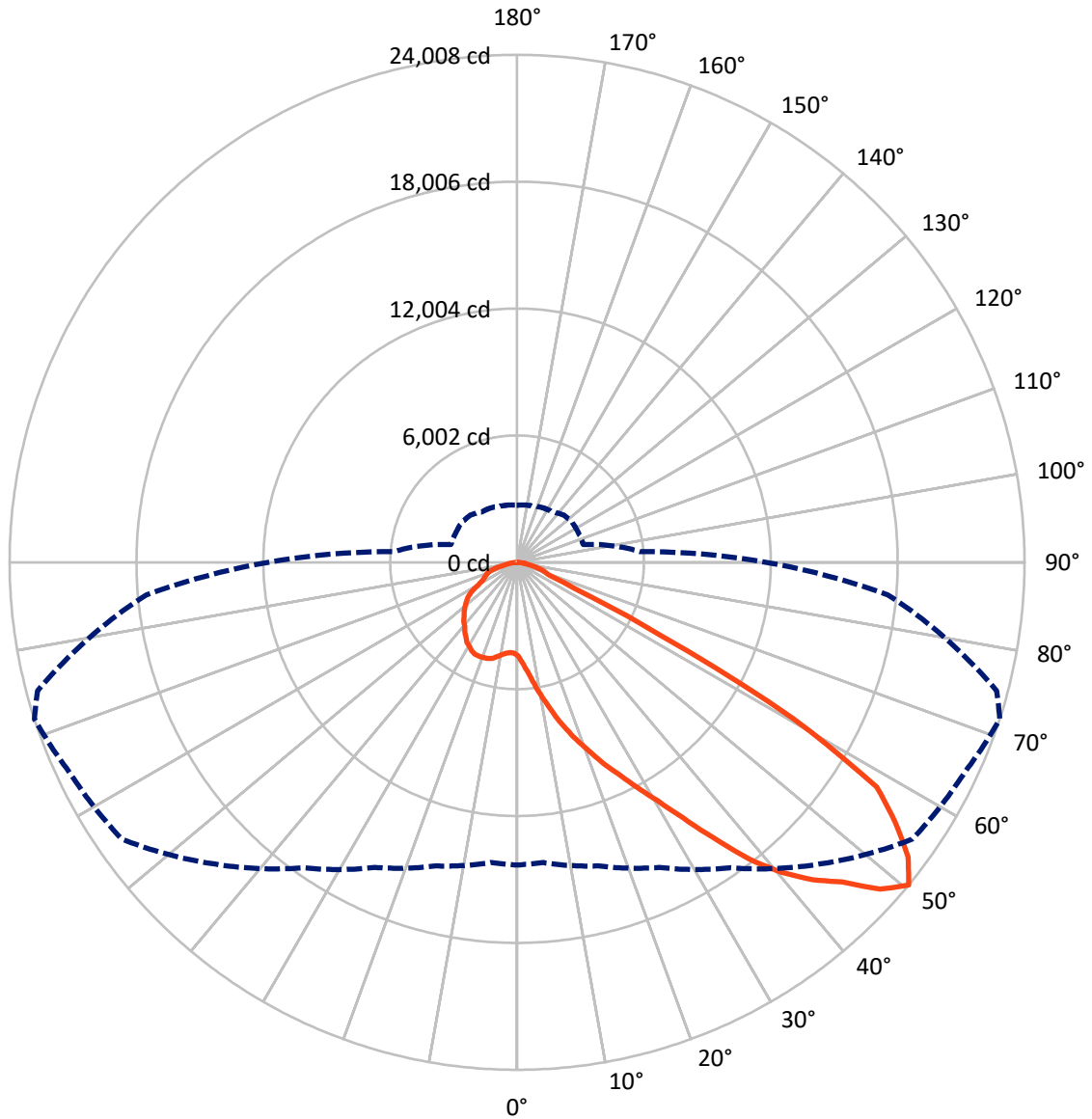
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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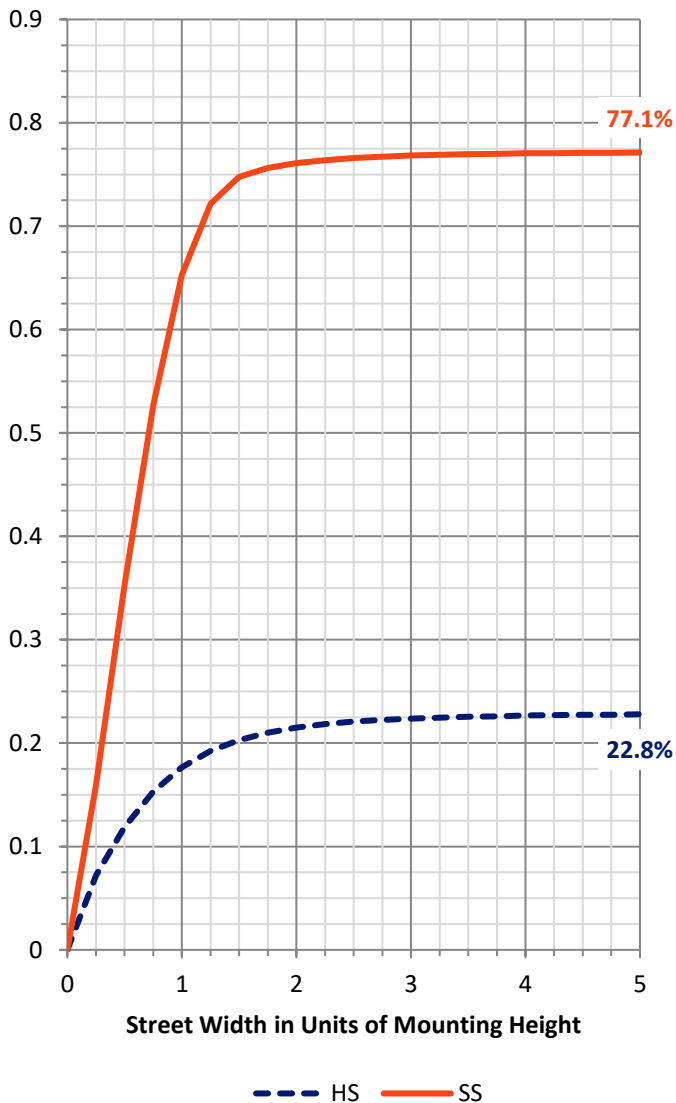
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7266.8	0.0	7266.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	24451.2	0.0	24451.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	31718.0	0.0	31718.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.4	1.6
10°-20°	1941.6	6.1
20°-30°	3764.6	11.9
30°-40°	6236.6	19.7
40°-50°	8726.3	27.5
50°-60°	7361.8	23.2
60°-70°	2243.8	7.1
70°-80°	787.2	2.5
80°-90°	136.9	0.4
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°	31718.0	100.0
0°-180°	31718.0	100.0

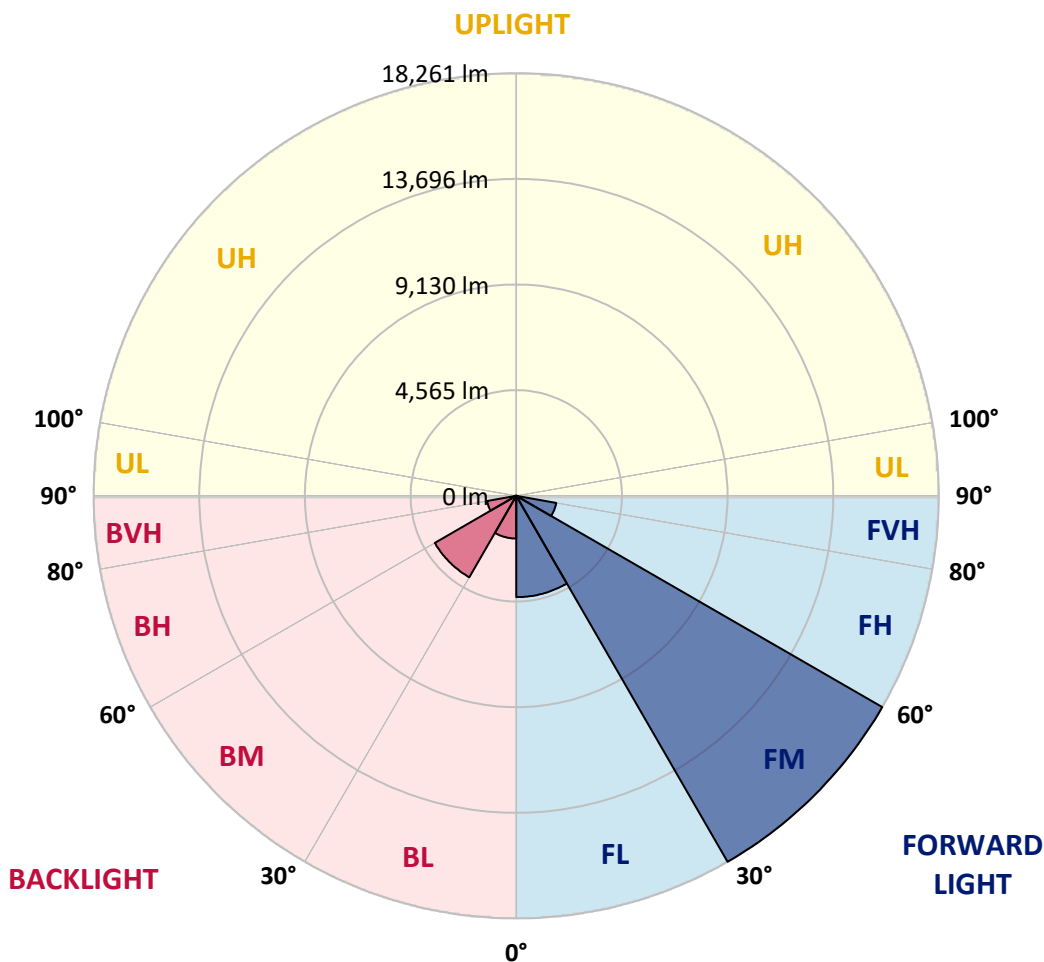


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4378.2	13.8			
FM (30°-60°)	18260.9	57.6			
FH (60°-80°)	1750.8	5.5			G1/1800
FVH (80°-90°)	61.3	0.2			G1/100
BL (0°-30°)	1847.2	5.8	B3/2500		
BM (30°-60°)	4063.7	12.8	B3/5000		
BH (60°-80°)	1280.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	75.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4
2.5°	5679.2	5643.9	5537.9	5502.6	5377.0	5149.4	5070.9	4839.3	4741.2	4650.9	4544.9
5°	7182.4	7017.6	7005.8	6805.6	6515.2	6346.4	5844.0	5506.5	5196.5	5039.5	4749.0
7.5°	8140.1	8144.0	8144.0	7979.1	7747.6	7319.8	6868.4	6260.1	5793.0	5561.5	5066.9
10°	9050.6	8972.1	8929.0	8913.3	8756.3	8340.2	7857.5	7103.9	6464.2	6193.4	5306.3
12.5°	9694.3	9627.6	9725.7	9674.7	9560.8	9290.0	8834.8	7975.2	7174.6	6809.6	5691.0
15°	10000.4	10047.5	10126.0	10267.3	10216.3	10114.2	9611.9	8870.1	7939.9	7527.8	6032.4
17.5°	10471.4	10341.9	10436.1	10612.7	10754.0	10706.9	10420.4	9517.7	8697.4	8191.1	6491.6
20°	10801.1	10726.5	10773.6	10977.7	11083.7	11350.6	11201.4	10365.4	9423.5	8889.7	7033.3
22.5°	11743.0	11633.1	11480.1	11511.5	11550.7	11739.1	11774.4	11295.6	10267.3	9702.1	7547.4
25°	12904.8	12802.7	12622.2	12437.7	12323.9	12288.6	12410.3	12025.6	11075.8	10491.0	8100.8
27.5°	14184.3	14011.6	13897.8	13517.1	13210.9	13163.8	13105.0	12896.9	12033.5	11401.6	8724.9
30°	15428.4	15291.1	15138.0	14529.7	14211.8	14160.7	13870.3	13929.2	13073.6	12371.0	9431.3
32.5°	16370.4	16382.2	16032.9	15573.7	15275.4	15004.6	14898.6	15067.4	14408.0	13842.8	10220.2
35°	17131.8	17167.1	16833.5	16417.5	16095.7	16284.1	16237.0	16315.5	16001.5	15310.7	11138.6
37.5°	17873.6	17697.0	17339.8	17139.7	16970.9	17281.0	17681.3	17748.0	17806.9	16994.4	12206.2
40°	17995.3	18011.0	17803.0	17944.3	17732.3	18199.4	19129.5	19043.2	19282.6	18572.2	13364.0
42.5°	17822.6	17857.9	17940.3	18140.5	18650.7	19212.0	20593.5	20240.3	20530.7	19898.8	14490.4
45°	17540.0	17394.8	17496.8	18258.2	19141.3	20389.4	21931.9	21657.1	21562.9	21033.1	15832.7
47.5°	16189.9	16339.0	16656.9	17594.9	18921.5	20593.5	22881.7	22818.9	23101.5	22728.6	17053.3
50°	14317.7	14258.9	14871.1	15926.9	17638.1	20193.2	22830.6	23399.7	24008.1	23490.0	17598.9
52.5°	10722.6	11036.6	11562.5	12873.4	15314.6	18011.0	21716.0	22665.8	23160.3	23050.4	17159.3
55°	6778.2	6872.3	7190.3	8748.4	10946.3	14455.1	18615.4	20817.2	21700.3	22112.4	16755.0
57.5°	3292.9	3116.3	3504.9	4756.9	6322.9	9721.8	14357.0	18132.6	20051.9	20797.6	15875.9
60°	1719.1	1785.8	1938.9	2386.3	3269.4	5047.3	8948.6	12084.5	15016.3	16162.4	12033.5
62.5°	1424.7	1448.3	1550.3	1774.0	2174.3	2904.4	4568.5	5891.1	7657.3	8689.5	6844.9
65°	1208.8	1220.6	1330.5	1479.7	1734.8	2044.8	2351.0	2460.9	2978.9	3057.4	2433.4
67.5°	1008.7	1020.5	1138.2	1279.5	1444.3	1526.8	1605.2	1597.4	1656.3	1632.7	1628.8
70°	777.1	788.9	910.6	1059.7	1142.1	1095.0	1338.4	1393.3	1416.9	1436.5	1467.9
72.5°	561.2	584.8	679.0	785.0	741.8	851.7	1102.9	1185.3	1216.7	1228.5	1267.7
75°	408.2	416.0	439.6	408.2	471.0	592.6	777.1	879.2	918.4	930.2	989.1
77.5°	180.5	184.5	188.4	235.5	302.2	368.9	463.1	545.5	600.5	616.2	631.9
80°	94.2	98.1	121.7	160.9	215.9	270.8	337.5	384.6	420.0	423.9	439.6
82.5°	58.9	62.8	86.3	113.8	153.1	200.2	247.3	286.5	314.0	317.9	321.8
85°	27.5	35.3	51.0	70.6	102.0	129.5	133.4	113.8	121.7	125.6	117.7
87.5°	7.8	11.8	15.7	11.8	15.7	15.7	19.6	23.5	23.5	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°	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4	4415.4
2.5°	4486.1	4450.7	4313.4	4262.3	4128.9	4152.5	4081.8	4077.9	4062.2	4058.3	4054.3
5°	4596.0	4486.1	4321.2	4195.6	4121.1	4113.2	4062.2	4062.2	4077.9	4089.7	4062.2
7.5°	4776.5	4650.9	4372.2	4254.5	4187.8	4176.0	4140.7	4113.2	4148.5	4136.8	4105.4
10°	4984.5	4764.7	4470.4	4368.3	4258.4	4230.9	4230.9	4242.7	4183.9	4203.5	4172.1
12.5°	5216.1	4921.7	4596.0	4478.2	4348.7	4333.0	4325.1	4238.8	4270.2	4254.5	4176.0
15°	5510.4	5102.3	4756.9	4556.7	4446.8	4376.2	4274.1	4258.4	4238.8	4199.6	4164.2
17.5°	5828.3	5298.5	4831.4	4580.3	4415.4	4364.4	4285.9	4203.5	4144.6	4152.5	4125.0
20°	6099.2	5479.0	4858.9	4603.8	4391.9	4293.7	4172.1	4121.1	4058.3	4054.3	4050.4
22.5°	6421.0	5722.4	4898.2	4541.0	4321.2	4219.2	4136.8	4046.5	4003.3	3948.4	3975.8
25°	6805.6	5816.6	4906.0	4505.7	4270.2	4089.7	4046.5	3948.4	3932.7	3854.2	3869.9
27.5°	7084.3	5867.6	4843.2	4395.8	4152.5	4015.1	3936.6	3865.9	3838.5	3779.6	3763.9
30°	7457.1	5946.1	4709.8	4258.4	4034.7	3881.6	3834.5	3818.8	3740.3	3677.6	3669.7
32.5°	7881.0	5997.1	4623.4	4117.1	3913.0	3795.3	3818.8	3744.3	3646.2	3591.2	3575.5
35°	8218.6	6016.7	4407.6	3956.2	3830.6	3756.0	3728.6	3712.9	3571.6	3520.6	3481.3
37.5°	8732.7	5973.6	4227.0	3842.4	3740.3	3712.9	3689.3	3583.4	3422.4	3347.9	3292.9
40°	9333.2	5961.8	3995.5	3681.5	3654.0	3685.4	3614.8	3449.9	3226.2	3143.8	3104.5
42.5°	9910.2	6044.2	3850.2	3595.1	3559.8	3571.6	3473.5	3226.2	3116.3	3069.2	3006.4
45°	10875.7	6216.9	3610.8	3461.7	3446.0	3438.1	3320.4	3061.4	2998.6	2939.7	2927.9
47.5°	11747.0	6103.1	3457.8	3324.3	3340.0	3296.8	3045.7	2963.2	2892.6	2833.7	2814.1
50°	11798.0	5832.3	3241.9	3218.3	3222.3	3147.7	2908.3	2853.3	2763.1	2723.8	2696.3
52.5°	11531.1	5388.8	3041.7	3049.6	3061.4	2939.7	2739.5	2700.3	2625.7	2570.8	2555.1
55°	10781.5	4698.0	2845.5	2876.9	2908.3	2676.7	2613.9	2515.8	2456.9	2378.4	2382.4
57.5°	9498.1	3783.5	2570.8	2621.8	2688.5	2433.4	2386.3	2264.6	2178.3	2115.5	2107.6
60°	6366.0	2692.4	2158.6	2178.3	2327.4	2225.4	2221.4	2099.8	1982.0	1927.1	1895.7
62.5°	3756.0	2056.6	1864.3	1844.7	1840.7	1899.6	1997.7	1954.6	1801.5	1695.5	1726.9
65°	1966.3	1777.9	1734.8	1668.0	1628.8	1613.1	1687.7	1707.3	1605.2	1491.4	1483.6
67.5°	1652.3	1652.3	1617.0	1593.5	1538.5	1471.8	1424.7	1361.9	1346.2	1314.8	1275.6
70°	1503.2	1542.5	1530.7	1475.7	1428.6	1354.1	1232.4	1130.3	1032.2	996.9	1020.5
72.5°	1310.9	1350.1	1350.1	1322.7	1259.9	1146.0	1028.3	910.6	828.1	765.3	757.5
75°	1008.7	1028.3	1075.4	1044.0	961.6	890.9	769.3	647.6	569.1	510.2	498.5
77.5°	643.7	675.1	675.1	671.1	612.3	545.5	467.1	380.7	321.8	278.7	266.9
80°	427.8	447.4	463.1	447.4	408.2	357.2	298.3	239.4	196.2	160.9	153.1
82.5°	314.0	337.5	349.3	333.6	294.4	255.1	211.9	168.8	125.6	98.1	90.3
85°	121.7	125.6	141.3	168.8	164.8	160.9	129.5	94.2	70.6	51.0	47.1
87.5°	31.4	27.5	31.4	31.4	27.5	23.5	23.5	23.5	23.5	11.8	15.7
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)