

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: P529363

Luminaire Tested: **GALN-SA4C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529363  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15404 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

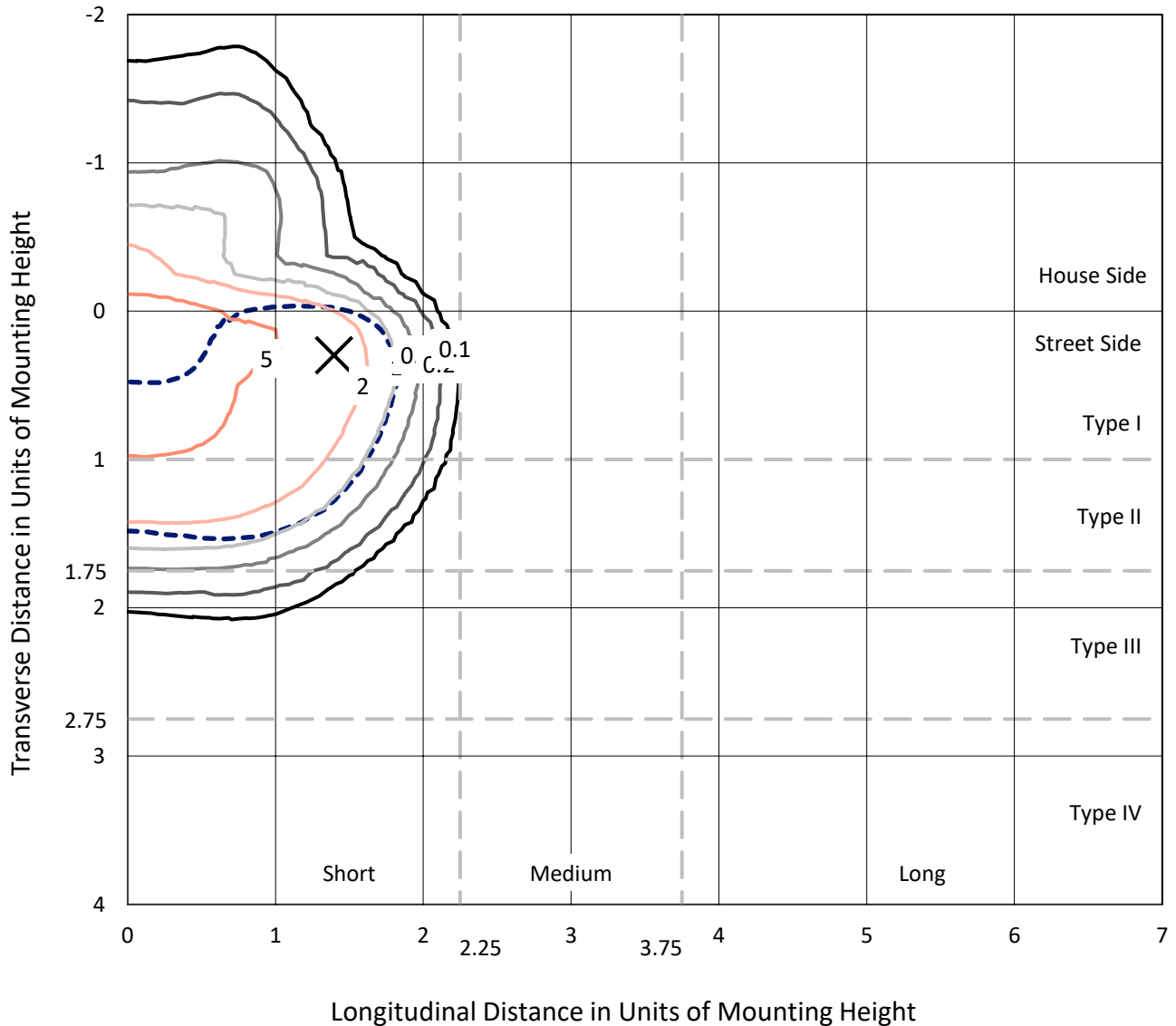
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

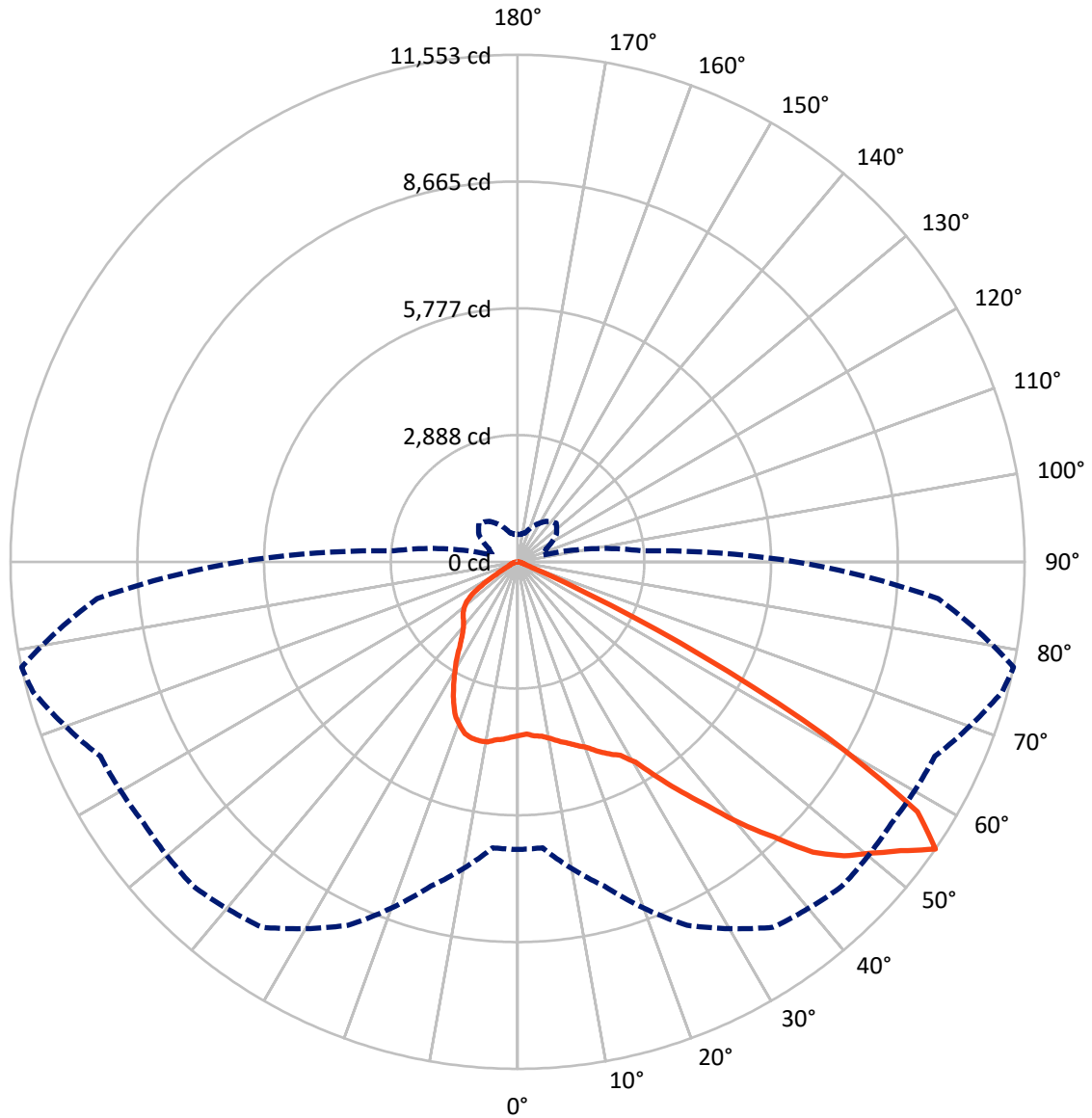
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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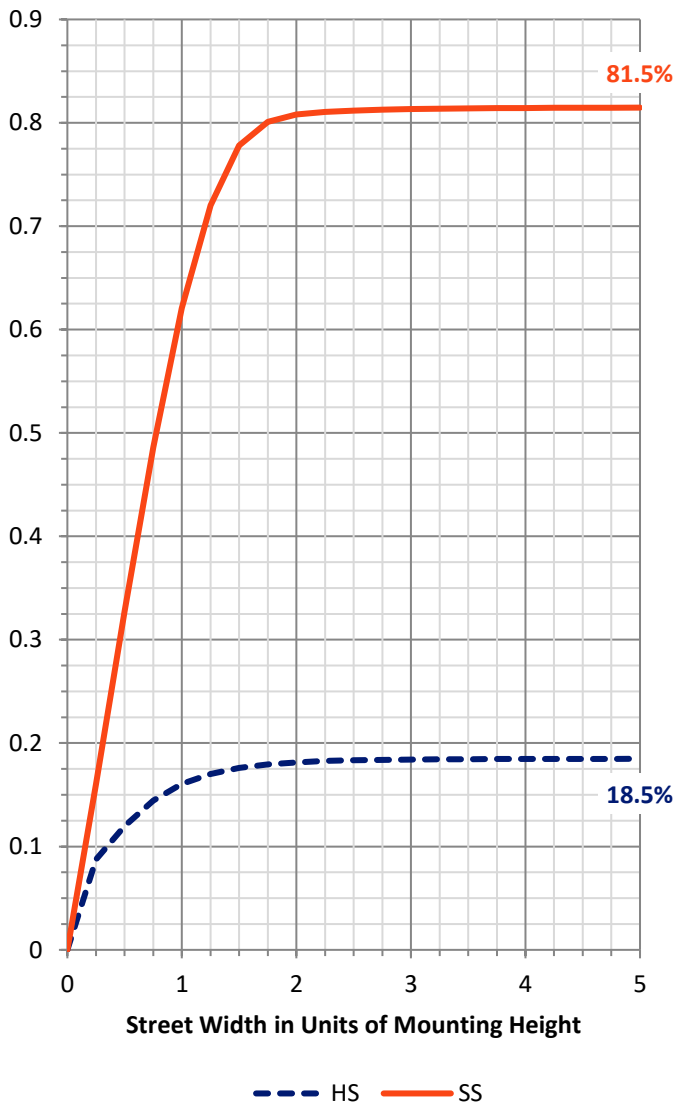
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2861.1	0.0	2861.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	12542.9	0.0	12542.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	15404.0	0.0	15404.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.1	2.3
10°-20°	934.6	6.1
20°-30°	1638.2	10.6
30°-40°	2701.1	17.5
40°-50°	3930.5	25.5
50°-60°	4453.7	28.9
60°-70°	1273.4	8.3
70°-80°	98.9	0.6
80°-90°	20.6	0.1
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°	15404.0	100.0
0°-180°	15404.0	100.0



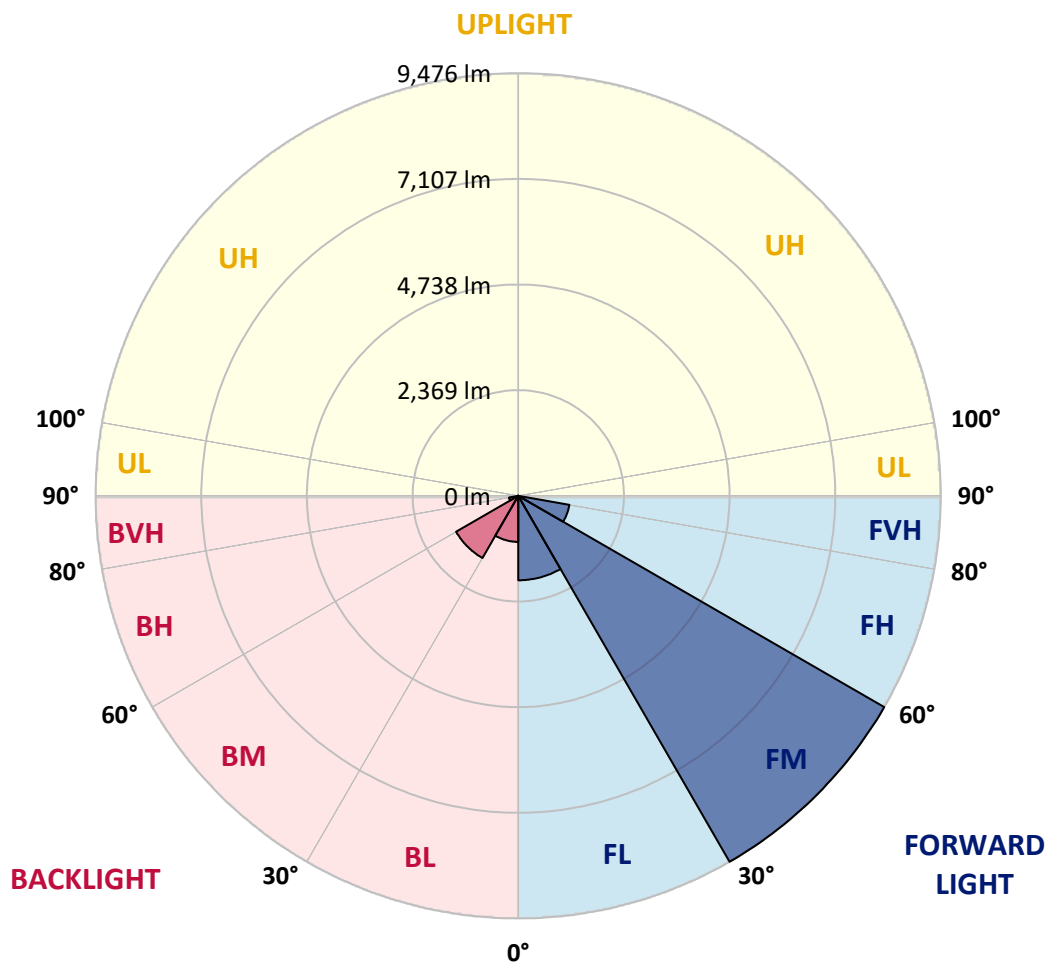
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.6	12.3			
FM (30°-60°)	9475.9	61.5			
FH (60°-80°)	1163.4	7.6			G1/1800
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	1032.3	6.7	B3/2500		
BM (30°-60°)	1609.4	10.4	B2/2500		
BH (60°-80°)	208.8	1.4	B1/500		G1/500
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4
2.5°	3723.5	3759.3	3764.8	3808.9	3806.1	3880.5	3902.5	3905.3	3954.9	3930.1	3993.4
5°	3618.9	3599.6	3591.3	3668.4	3690.5	3756.6	3811.7	3844.7	3946.6	3982.4	4048.5
7.5°	3525.2	3525.2	3530.7	3599.6	3591.3	3676.7	3734.5	3836.4	3985.2	4015.5	4095.3
10°	3434.3	3401.3	3442.6	3514.2	3574.8	3613.4	3734.5	3830.9	4004.4	4092.6	4202.7
12.5°	3387.5	3404.1	3409.6	3461.9	3528.0	3643.7	3709.8	3869.5	4142.1	4194.5	4312.9
15°	3682.2	3649.2	3569.3	3522.5	3577.6	3632.6	3797.9	3960.4	4213.8	4288.1	4420.3
17.5°	4023.7	3996.2	3930.1	3803.4	3679.5	3781.4	3910.8	4059.5	4290.9	4401.0	4596.6
20°	4469.9	4425.8	4359.7	4111.9	4004.4	3894.3	4032.0	4208.2	4417.6	4516.7	4717.8
22.5°	5001.4	5001.4	4852.7	4552.5	4329.4	4224.8	4282.6	4384.5	4558.0	4693.0	4891.3
25°	5555.0	5538.5	5403.5	5092.3	4715.0	4591.1	4657.2	4728.8	4775.6	4849.9	4982.1
27.5°	6188.4	6092.0	5921.3	5577.0	5243.8	5004.2	5075.8	5012.4	4954.6	4993.2	5183.2
30°	6618.1	6678.7	6461.1	6130.6	5816.6	5549.5	5563.3	5508.2	5243.8	5298.9	5411.8
32.5°	7064.2	7102.8	6981.6	6799.8	6485.9	6174.7	6061.7	6014.9	5816.6	5841.4	5731.3
35°	7436.0	7510.4	7403.0	7323.1	7232.2	6981.6	6670.4	6821.9	6502.4	6441.8	6155.4
37.5°	7777.5	7755.5	7882.2	7799.6	7780.3	7604.0	7262.5	7292.8	7078.0	7064.2	6733.7
40°	8083.2	8088.8	8262.3	8300.8	8223.7	7909.7	7414.0	7653.6	7827.1	7843.6	7419.5
42.5°	8336.6	8411.0	8559.7	8870.9	8755.2	8232.0	7571.0	7832.6	8477.1	8579.0	8069.5
45°	8556.9	8708.4	8892.9	9171.1	9105.0	8689.1	7962.1	8201.7	9171.1	9438.3	8680.9
47.5°	8570.7	8769.0	8970.1	9383.2	9465.8	8934.3	8366.9	8785.5	9721.9	10011.1	9127.0
50°	8515.6	8620.3	9022.4	9471.3	9658.6	9333.6	8934.3	9275.8	10256.2	10438.0	9352.9
52.5°	7862.9	7942.8	8749.7	9553.9	10005.6	9785.3	9686.1	9958.8	10801.5	10936.5	9564.9
55°	6554.7	6541.0	7650.9	9138.1	10165.3	10454.5	10393.9	10490.3	11432.2	11553.4	9617.3
57.5°	4483.7	4734.3	5692.7	7609.5	9187.6	10297.5	10360.9	10201.1	10696.9	10743.7	8383.4
60°	2418.1	2522.7	3293.9	5078.5	6995.4	8391.7	8556.9	8267.8	8229.2	8097.0	5984.6
62.5°	961.2	1013.5	1451.4	2514.5	3811.7	5100.6	5455.8	5337.4	5084.0	4737.0	3098.3
65°	457.2	490.2	721.6	1176.0	1691.0	2126.2	2481.4	2591.6	1911.3	1721.3	1021.8
67.5°	311.2	336.0	526.0	672.0	603.1	630.7	820.7	762.9	448.9	382.8	283.7
70°	236.9	253.4	421.4	457.2	269.9	190.0	212.1	198.3	184.5	187.3	184.5
72.5°	168.0	181.8	308.5	269.9	118.4	88.1	112.9	135.0	135.0	135.0	132.2
75°	101.9	115.7	179.0	104.7	46.8	46.8	71.6	90.9	96.4	99.1	93.6
77.5°	52.3	66.1	60.6	30.3	30.3	35.8	52.3	63.3	68.9	68.9	66.1
80°	11.0	11.0	11.0	16.5	30.3	38.6	52.3	57.8	66.1	66.1	60.6
82.5°	0.0	2.8	8.3	16.5	27.5	35.8	49.6	57.8	66.1	68.9	63.3
85°	0.0	2.8	5.5	11.0	19.3	22.0	19.3	16.5	16.5	16.5	16.5
87.5°	0.0	0.0	2.8	2.8	2.8	5.5	5.5	5.5	5.5	5.5	5.5
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°	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4
2.5°	3998.9	4007.2	3993.4	3990.7	3979.7	4012.7	3932.8	3913.6	3963.1	3916.3	3927.3
5°	4051.3	4070.5	4045.8	4004.4	3943.9	3850.2	3770.3	3665.7	3616.1	3580.3	3574.8
7.5°	4089.8	4103.6	4078.8	3946.6	3764.8	3528.0	3351.7	3222.3	3120.4	3090.1	3040.5
10°	4246.8	4249.6	4125.6	3833.7	3478.4	3167.2	2897.3	2699.0	2597.1	2533.8	2506.2
12.5°	4351.5	4345.9	4095.3	3610.6	3136.9	2723.8	2415.3	2175.7	2082.1	2051.8	2032.5
15°	4483.7	4453.4	4023.7	3382.0	2696.3	2250.1	1971.9	1806.7	1798.4	1779.1	1798.4
17.5°	4588.3	4502.9	3919.1	2966.2	2274.9	1853.5	1671.7	1682.7	1704.8	1724.1	1726.8
20°	4759.1	4582.8	3679.5	2602.6	1883.8	1589.1	1586.4	1635.9	1691.0	1713.0	1735.1
22.5°	4888.5	4615.9	3423.3	2214.3	1564.3	1481.7	1528.5	1602.9	1644.2	1666.2	1699.3
25°	4935.3	4525.0	3081.8	1826.0	1410.1	1432.1	1503.7	1553.3	1605.6	1630.4	1616.6
27.5°	4982.1	4478.1	2674.2	1503.7	1327.5	1399.1	1459.7	1509.2	1525.8	1558.8	1580.8
30°	5095.1	4315.7	2307.9	1299.9	1286.2	1377.0	1421.1	1437.6	1481.7	1501.0	1501.0
32.5°	5185.9	4252.3	1919.6	1203.5	1280.7	1388.1	1393.6	1393.6	1399.1	1385.3	1379.8
35°	5373.2	4034.7	1572.6	1145.7	1277.9	1390.8	1404.6	1357.8	1231.1	1181.5	1167.7
37.5°	5604.6	3894.3	1316.5	1131.9	1297.2	1423.9	1445.9	1269.6	1104.4	1024.5	1010.8
40°	5885.5	3795.1	1148.5	1126.4	1341.2	1501.0	1434.9	1200.8	986.0	870.3	864.8
42.5°	6213.2	3704.2	1035.5	1123.7	1396.3	1580.8	1423.9	1142.9	864.8	787.7	798.7
45°	6474.9	3654.7	958.4	1104.4	1415.6	1627.7	1432.1	1041.0	815.2	765.6	771.1
47.5°	6678.7	3550.0	895.1	1071.3	1412.8	1644.2	1357.8	999.7	790.4	804.2	818.0
50°	6684.2	3409.6	815.2	999.7	1371.5	1613.9	1272.4	961.2	784.9	842.8	870.3
52.5°	6609.8	3211.3	729.8	897.8	1275.1	1509.2	1195.3	944.7	760.1	754.6	787.7
55°	6345.4	2839.5	586.6	727.1	1076.8	1244.8	1126.4	914.4	685.8	622.4	627.9
57.5°	5128.1	2035.3	432.4	520.5	762.9	911.6	1016.3	900.6	616.9	528.8	531.5
60°	3175.5	1154.0	316.7	355.3	470.9	553.6	823.5	837.2	550.8	446.2	440.7
62.5°	1630.4	570.1	245.1	250.6	289.2	325.0	564.6	702.3	498.5	424.1	424.1
65°	545.3	280.9	214.8	192.8	192.8	201.0	341.5	487.5	421.4	355.3	355.3
67.5°	234.1	209.3	187.3	168.0	154.2	146.0	192.8	283.7	314.0	269.9	258.9
70°	181.8	176.3	162.5	140.5	121.2	110.2	112.9	146.0	179.0	173.5	168.0
72.5°	135.0	135.0	129.4	110.2	93.6	79.9	74.4	77.1	85.4	88.1	90.9
75°	93.6	96.4	96.4	85.4	68.9	57.8	49.6	41.3	33.0	27.5	24.8
77.5°	63.3	66.1	71.6	63.3	52.3	38.6	30.3	22.0	13.8	5.5	5.5
80°	55.1	63.3	68.9	63.3	55.1	41.3	30.3	16.5	8.3	0.0	0.0
82.5°	57.8	63.3	71.6	60.6	52.3	38.6	30.3	19.3	8.3	2.8	0.0
85°	13.8	13.8	16.5	19.3	24.8	27.5	22.0	13.8	8.3	2.8	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	0.0	0.0
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)