

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: P531001

Luminaire Tested: **GALN-SA6B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531001  
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-SA6B-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 18689 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

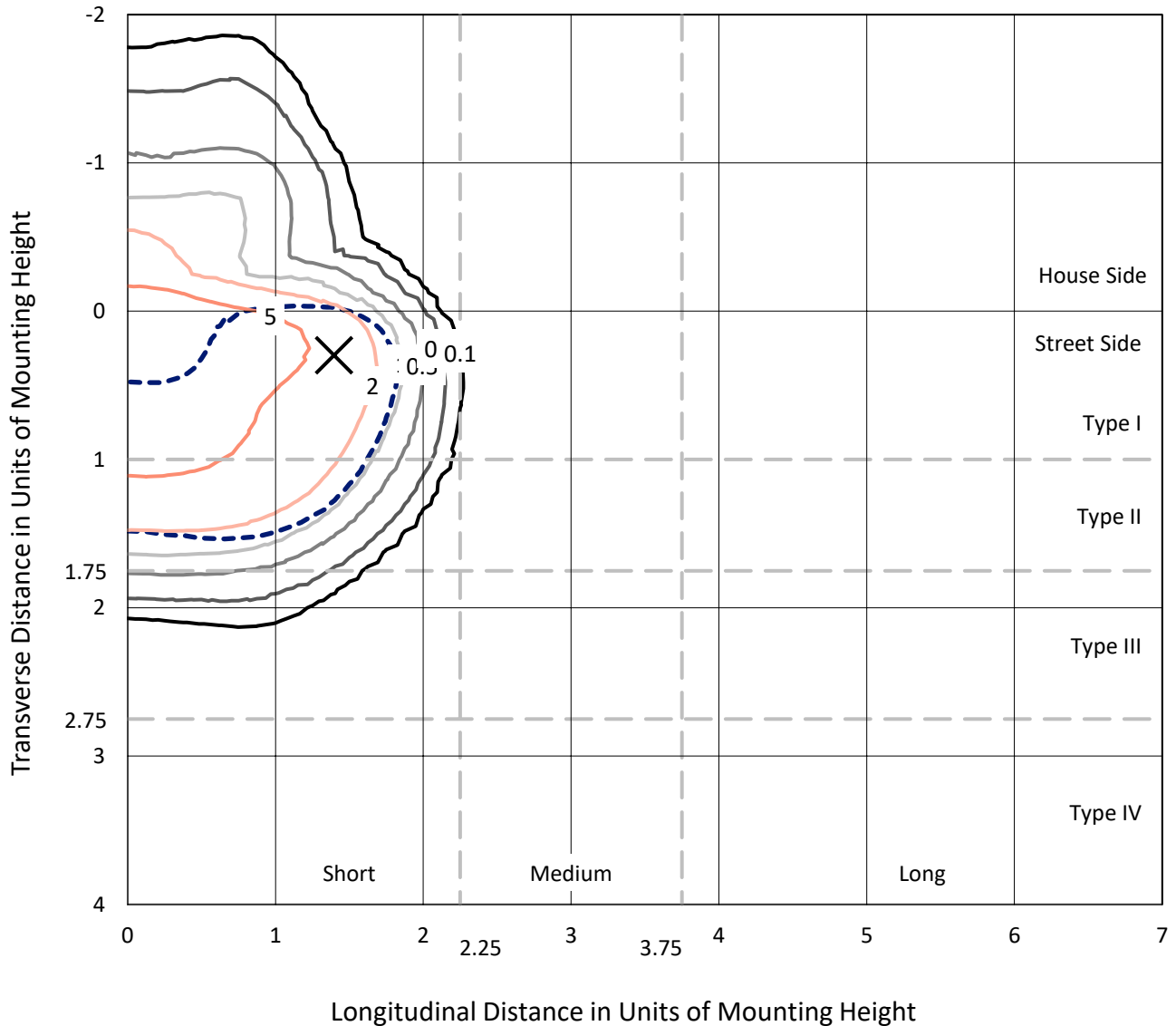
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

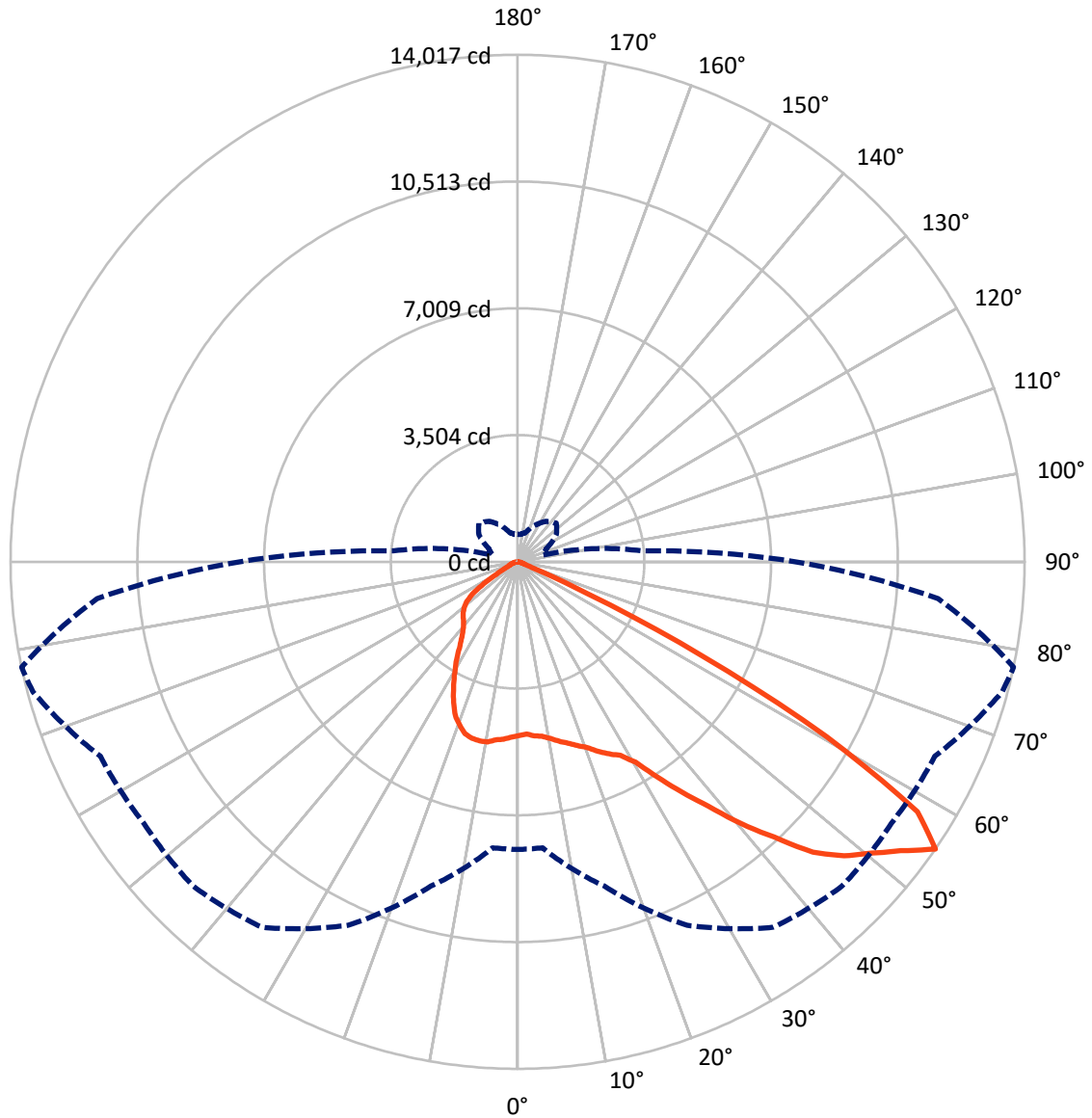
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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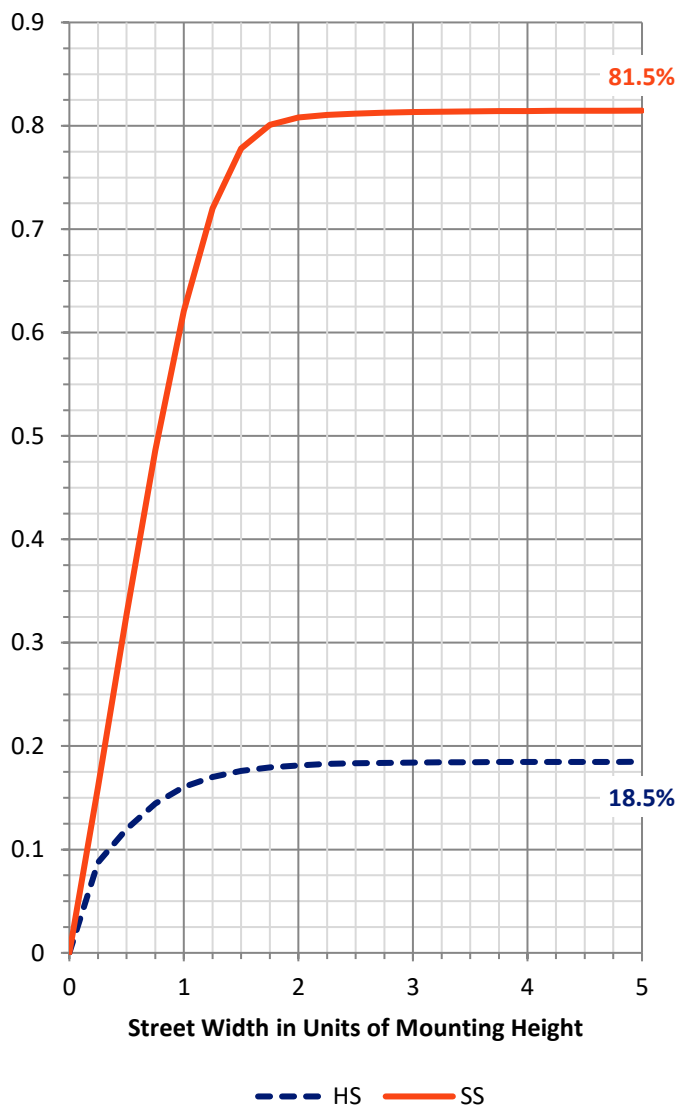
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3471.3	0.0	3471.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	15217.7	0.0	15217.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	18689.0	0.0	18689.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.4	2.3
10°-20°	1133.9	6.1
20°-30°	1987.5	10.6
30°-40°	3277.2	17.5
40°-50°	4768.7	25.5
50°-60°	5403.4	28.9
60°-70°	1544.9	8.3
70°-80°	120.0	0.6
80°-90°	24.9	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°	18689.0	100.0
0°-180°	18689.0	100.0

**Coefficient of Utilization**



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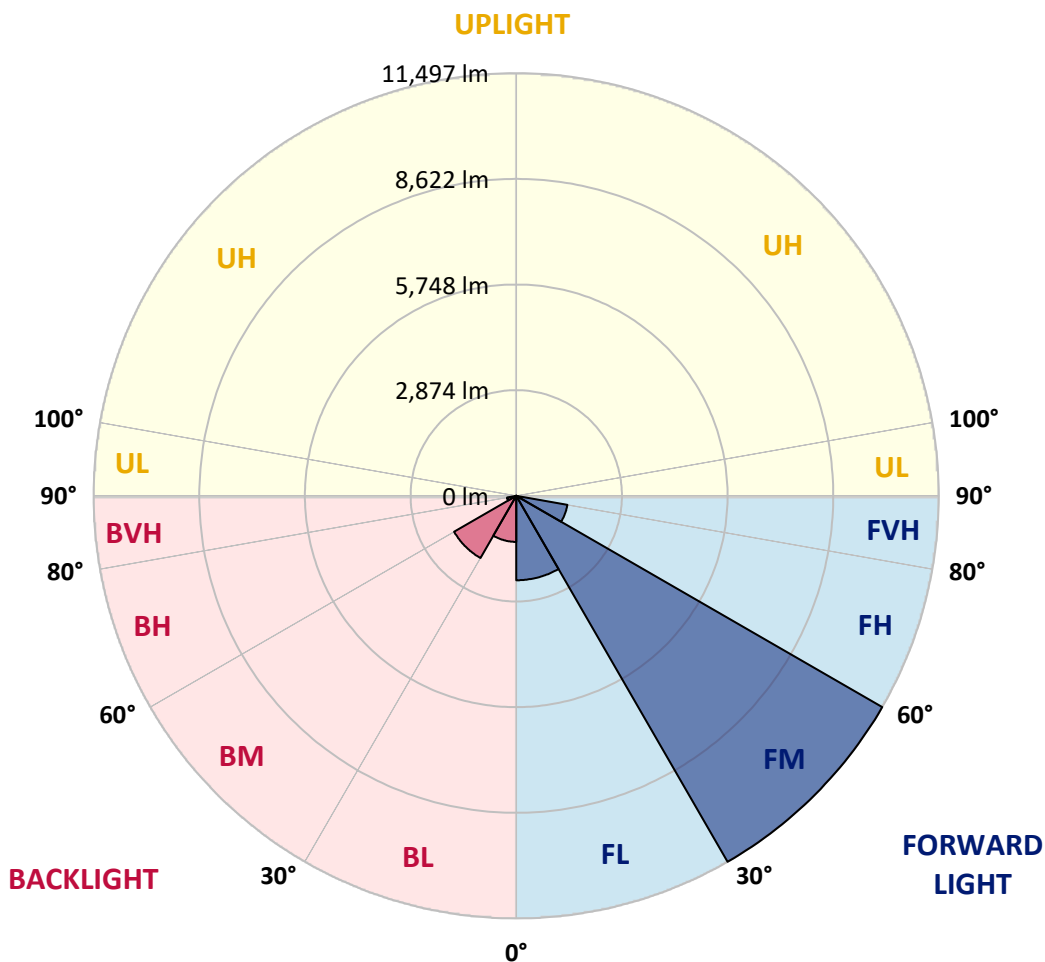
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.4	12.3			
FM (30°-60°)	11496.6	61.5			
FH (60°-80°)	1411.5	7.6			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1252.4	6.7	B3/2500		
BM (30°-60°)	1952.6	10.4	B2/2500		
BH (60°-80°)	253.4	1.4	B1/500		G1/500
BVH (80°-90°)	12.8	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°	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0
2.5°	4517.6	4561.0	4567.7	4621.2	4617.8	4708.1	4734.8	4738.1	4798.3	4768.2	4845.0
5°	4390.6	4367.2	4357.2	4450.8	4477.5	4557.7	4624.5	4664.6	4788.2	4831.7	4911.9
7.5°	4277.0	4277.0	4283.7	4367.2	4357.2	4460.8	4531.0	4654.6	4835.0	4871.8	4968.7
10°	4166.7	4126.6	4176.8	4263.6	4337.2	4383.9	4531.0	4647.9	4858.4	4965.3	5099.0
12.5°	4109.9	4130.0	4136.7	4200.2	4280.4	4420.7	4500.9	4694.7	5025.5	5089.0	5232.7
15°	4467.5	4427.4	4330.5	4273.7	4340.5	4407.3	4607.8	4805.0	5112.4	5202.6	5363.0
17.5°	4881.8	4848.4	4768.2	4614.5	4464.1	4587.8	4744.8	4925.2	5205.9	5339.6	5576.8
20°	5423.1	5369.7	5289.5	4988.7	4858.4	4724.8	4891.8	5105.7	5359.6	5479.9	5723.8
22.5°	6068.0	6068.0	5887.6	5523.4	5252.7	5125.7	5195.9	5319.5	5530.0	5693.8	5934.4
25°	6739.6	6719.6	6555.9	6178.3	5720.5	5570.1	5650.3	5737.2	5794.0	5884.2	6044.6
27.5°	7508.2	7391.2	7184.0	6766.4	6362.1	6071.3	6158.2	6081.4	6011.2	6058.0	6288.5
30°	8029.4	8102.9	7839.0	7438.0	7057.1	6732.9	6749.7	6682.8	6362.1	6428.9	6565.9
32.5°	8570.7	8617.5	8470.5	8250.0	7869.0	7491.4	7354.5	7297.6	7057.1	7087.1	6953.5
35°	9021.8	9112.0	8981.7	8884.8	8774.6	8470.5	8092.9	8276.7	7889.1	7815.6	7468.1
37.5°	9436.2	9409.4	9563.1	9462.9	9439.5	9225.6	8811.3	8848.1	8587.4	8570.7	8169.8
40°	9807.0	9813.7	10024.2	10071.0	9977.5	9596.5	8995.1	9285.8	9496.3	9516.3	9001.8
42.5°	10114.5	10204.7	10385.1	10762.7	10622.4	9987.5	9185.5	9503.0	10284.9	10408.5	9790.3
45°	10381.8	10565.6	10789.4	11126.9	11046.7	10542.2	9660.0	9950.7	11126.9	11451.0	10532.1
47.5°	10398.5	10639.1	10883.0	11384.2	11484.4	10839.5	10151.2	10659.1	11795.2	12146.0	11073.4
50°	10331.7	10458.6	10946.5	11491.1	11718.3	11324.1	10839.5	11253.9	12443.4	12664.0	11347.4
52.5°	9539.7	9636.6	10615.7	11591.4	12139.4	11872.0	11751.8	12082.6	13105.0	13268.8	11604.7
55°	7952.6	7935.9	9282.4	11086.8	12333.2	12684.0	12610.5	12727.4	13870.2	14017.2	11668.2
57.5°	5439.8	5743.9	6906.7	9232.3	11147.0	12493.5	12570.4	12376.6	12978.1	13034.9	10171.3
60°	2933.8	3060.7	3996.3	6161.6	8487.2	10181.3	10381.8	10030.9	9984.1	9823.8	7260.9
62.5°	1166.2	1229.6	1760.9	3050.7	4624.5	6188.3	6619.3	6475.7	6168.2	5747.2	3759.1
65°	554.7	594.8	875.5	1426.8	2051.6	2579.6	3010.6	3144.3	2318.9	2088.4	1239.7
67.5°	377.6	407.7	638.2	815.3	731.8	765.2	995.7	925.6	544.7	464.5	344.2
70°	287.4	307.4	511.2	554.7	327.5	230.6	257.3	240.6	223.9	227.2	223.9
72.5°	203.8	220.5	374.2	327.5	143.7	106.9	137.0	163.7	163.7	163.7	160.4
75°	123.6	140.3	217.2	127.0	56.8	56.8	86.9	110.3	116.9	120.3	113.6
77.5°	63.5	80.2	73.5	36.8	36.8	43.4	63.5	76.9	83.5	83.5	80.2
80°	13.4	13.4	13.4	20.0	36.8	46.8	63.5	70.2	80.2	80.2	73.5
82.5°	0.0	3.3	10.0	20.0	33.4	43.4	60.1	70.2	80.2	83.5	76.9
85°	0.0	3.3	6.7	13.4	23.4	26.7	23.4	20.0	20.0	20.0	20.0
87.5°	0.0	0.0	3.3	3.3	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0	4805.0
2.5°	4851.7	4861.8	4845.0	4841.7	4828.3	4868.4	4771.5	4748.1	4808.3	4751.5	4764.9
5°	4915.2	4938.6	4908.5	4858.4	4784.9	4671.3	4574.4	4447.4	4387.3	4343.8	4337.2
7.5°	4962.0	4978.7	4948.6	4788.2	4567.7	4280.4	4066.5	3909.5	3785.8	3749.1	3688.9
10°	5152.5	5155.8	5005.4	4651.2	4220.2	3842.6	3515.2	3274.6	3151.0	3074.1	3040.7
12.5°	5279.4	5272.8	4968.7	4380.6	3805.9	3304.7	2930.4	2639.7	2526.1	2489.4	2466.0
15°	5439.8	5403.1	4881.8	4103.3	3271.2	2729.9	2392.5	2192.0	2181.9	2158.6	2181.9
17.5°	5566.8	5463.2	4754.8	3598.7	2760.0	2248.8	2028.2	2041.6	2068.3	2091.7	2095.1
20°	5774.0	5560.1	4464.1	3157.6	2285.5	1928.0	1924.7	1984.8	2051.6	2078.4	2105.1
22.5°	5931.0	5600.2	4153.4	2686.5	1897.9	1797.7	1854.5	1944.7	1994.8	2021.6	2061.7
25°	5987.8	5489.9	3739.0	2215.4	1710.8	1737.5	1824.4	1884.6	1948.0	1978.1	1961.4
27.5°	6044.6	5433.1	3244.5	1824.4	1610.6	1697.4	1770.9	1831.1	1851.1	1891.2	1918.0
30°	6181.6	5236.0	2800.1	1577.1	1560.4	1670.7	1724.2	1744.2	1797.7	1821.1	1821.1
32.5°	6291.9	5159.1	2329.0	1460.2	1553.8	1684.1	1690.8	1690.8	1697.4	1680.7	1674.0
35°	6519.1	4895.2	1907.9	1390.0	1550.4	1687.4	1704.1	1647.3	1493.6	1433.5	1416.8
37.5°	6799.8	4724.8	1597.2	1373.3	1573.8	1727.5	1754.2	1540.4	1339.9	1243.0	1226.3
40°	7140.6	4604.5	1393.4	1366.6	1627.3	1821.1	1740.9	1456.9	1196.2	1055.9	1049.2
42.5°	7538.2	4494.2	1256.4	1363.3	1694.1	1918.0	1727.5	1386.7	1049.2	955.6	969.0
45°	7855.7	4434.1	1162.8	1339.9	1717.5	1974.8	1737.5	1263.1	989.1	928.9	935.6
47.5°	8102.9	4307.1	1086.0	1299.8	1714.1	1994.8	1647.3	1212.9	959.0	975.7	992.4
50°	8109.6	4136.7	989.1	1212.9	1664.0	1958.1	1543.7	1166.2	952.3	1022.5	1055.9
52.5°	8019.4	3896.1	885.5	1089.3	1547.1	1831.1	1450.2	1146.1	922.2	915.5	955.6
55°	7698.6	3445.0	711.7	882.1	1306.5	1510.3	1366.6	1109.3	832.0	755.2	761.8
57.5°	6221.7	2469.3	524.6	631.5	925.6	1106.0	1233.0	1092.6	748.5	641.6	644.9
60°	3852.6	1400.1	384.3	431.0	571.4	671.6	999.1	1015.8	668.3	541.3	534.6
62.5°	1978.1	691.7	297.4	304.1	350.8	394.3	685.0	852.1	604.8	514.6	514.6
65°	661.6	340.8	260.6	233.9	233.9	243.9	414.3	591.4	511.2	431.0	431.0
67.5°	284.0	253.9	227.2	203.8	187.1	177.1	233.9	344.2	380.9	327.5	314.1
70°	220.5	213.9	197.1	170.4	147.0	133.7	137.0	177.1	217.2	210.5	203.8
72.5°	163.7	163.7	157.0	133.7	113.6	96.9	90.2	93.6	103.6	106.9	110.3
75°	113.6	116.9	116.9	103.6	83.5	70.2	60.1	50.1	40.1	33.4	30.1
77.5°	76.9	80.2	86.9	76.9	63.5	46.8	36.8	26.7	16.7	6.7	6.7
80°	66.8	76.9	83.5	76.9	66.8	50.1	36.8	20.0	10.0	0.0	0.0
82.5°	70.2	76.9	86.9	73.5	63.5	46.8	36.8	23.4	10.0	3.3	0.0
85°	16.7	16.7	20.0	23.4	30.1	33.4	26.7	16.7	10.0	3.3	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)