

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: P652036

Luminaire Tested: **GALN-SA7A-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19378.3 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G4

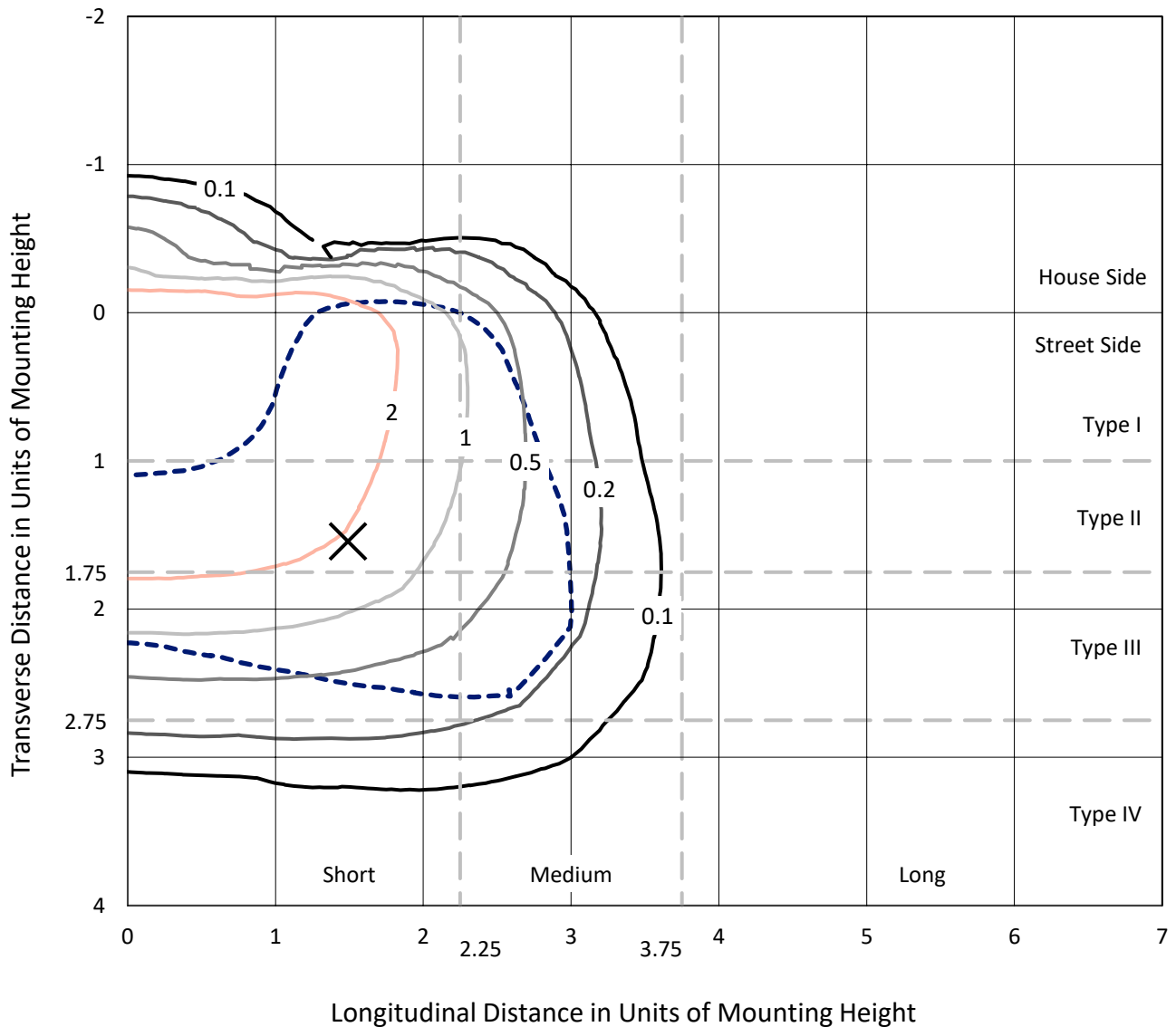
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

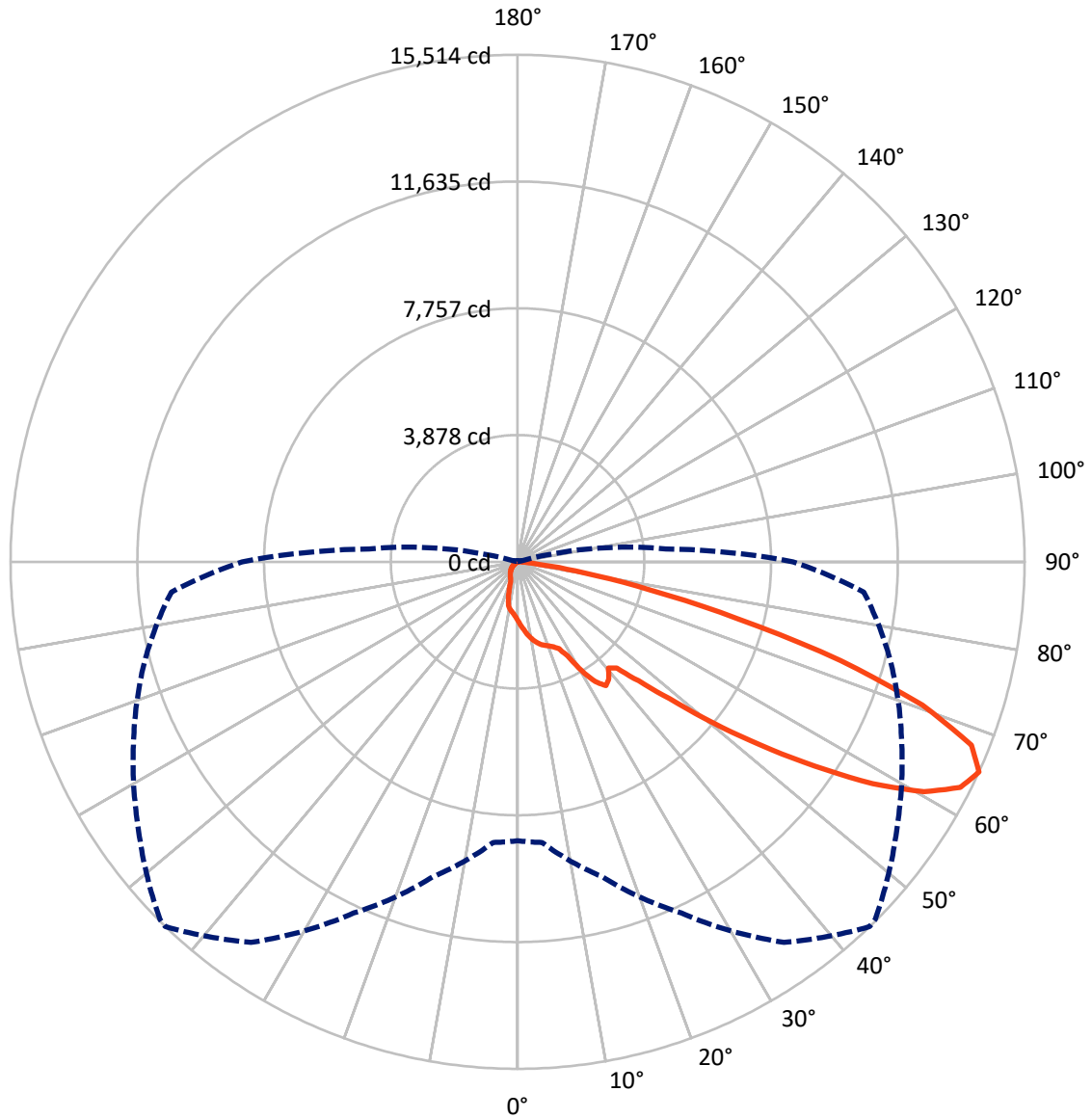
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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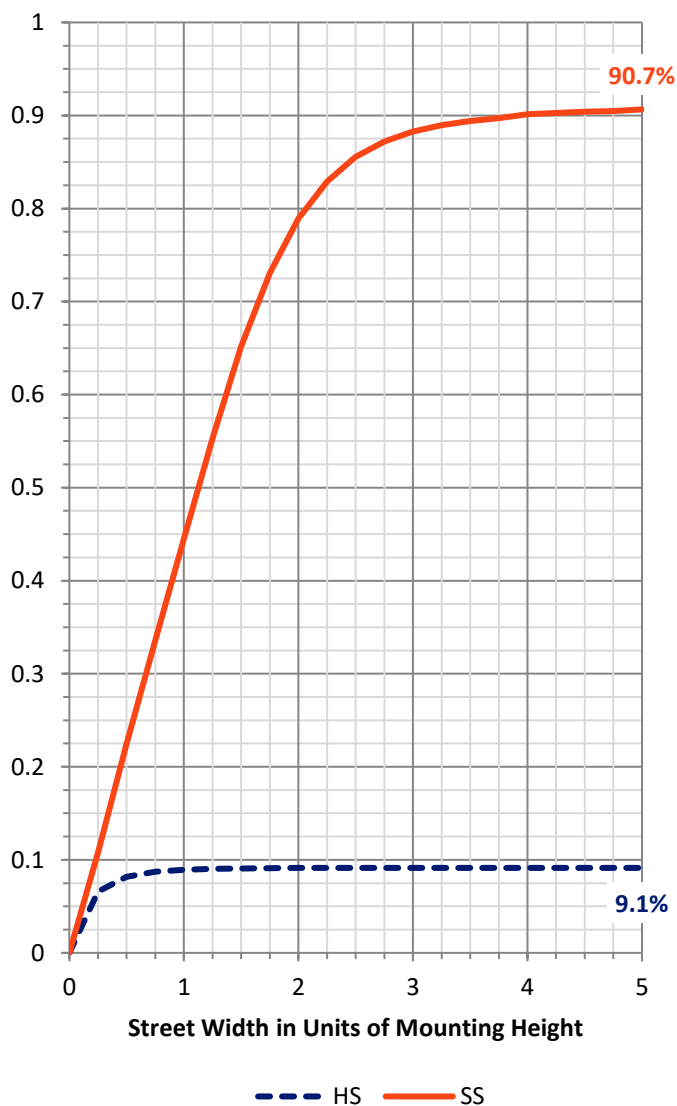
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1785.4	0.0	1785.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	17592.9	0.0	17592.9
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	19378.3	0.0	19378.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	0.9
10°-20°	539.9	2.8
20°-30°	915.4	4.7
30°-40°	1522.1	7.9
40°-50°	2657.6	13.7
50°-60°	5192.0	26.8
60°-70°	6023.9	31.1
70°-80°	2193.6	11.3
80°-90°	154.6	0.8
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°	19378.3	100.0
0°-180°	19378.3	100.0

**Coefficient of Utilization**

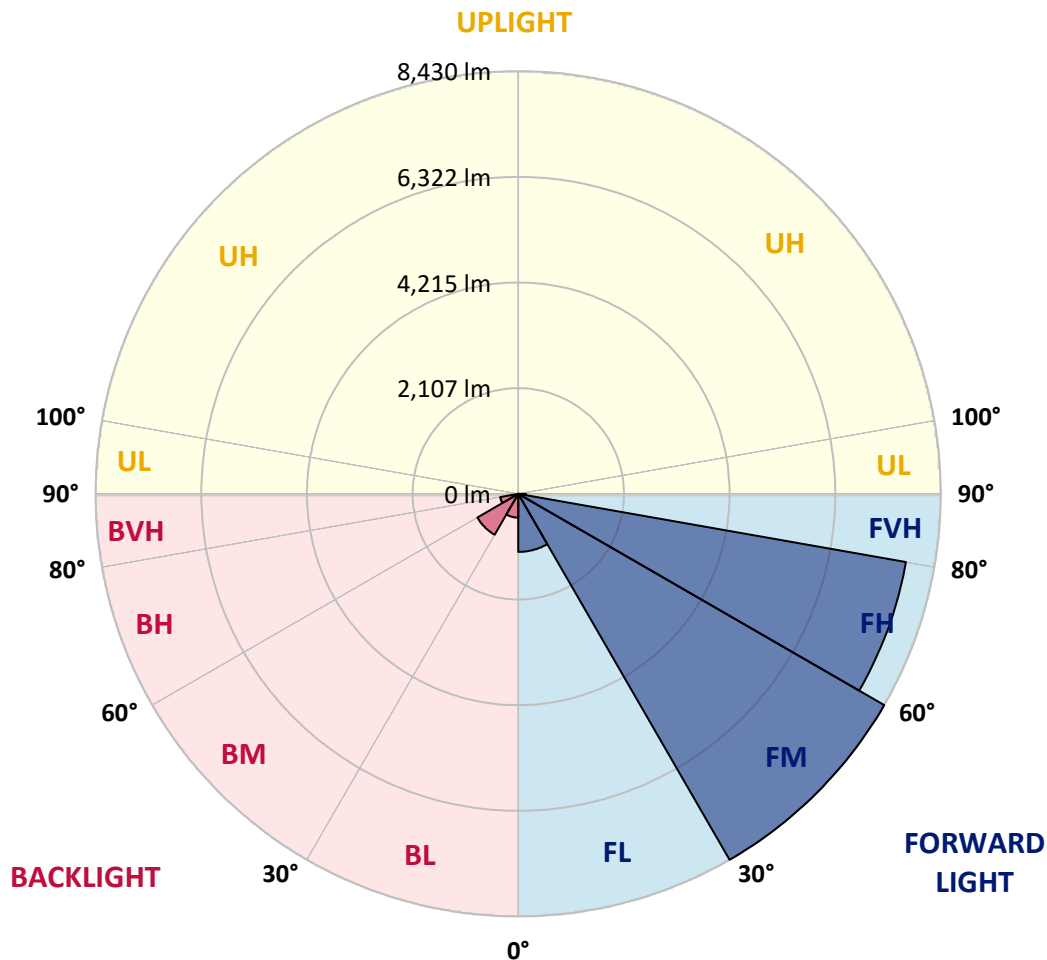


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.0	6.0			
FM (30°-60°)	8429.6	43.5			
FH (60°-80°)	7851.8	40.5			G4/12000
FVH (80°-90°)	152.5	0.8			G2/225
BL (0°-30°)	475.7	2.5	B1/500		
BM (30°-60°)	942.0	4.9	B1/1000		
BH (60°-80°)	365.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	2030.1	2021.2	2016.8	1993.1	1975.3	1953.1	1953.1	1925.0	1892.4	1856.8	1824.3
5°	2256.7	2241.9	2222.6	2201.8	2160.4	2101.2	2101.2	2041.9	1973.8	1913.1	1846.5
7.5°	2474.3	2461.0	2428.4	2388.4	2320.3	2258.2	2253.7	2167.8	2086.4	1994.6	1899.8
10°	2665.3	2655.0	2626.9	2549.8	2478.8	2397.4	2395.8	2299.6	2204.8	2092.3	1975.3
12.5°	2798.6	2800.1	2763.1	2689.0	2597.3	2520.2	2514.3	2419.6	2320.3	2198.9	2055.2
15°	2893.4	2893.4	2854.9	2771.9	2689.0	2620.9	2615.0	2532.1	2429.9	2298.1	2142.6
17.5°	2920.0	2928.9	2887.4	2813.4	2746.8	2687.6	2686.1	2616.4	2535.0	2407.7	2231.5
20°	2909.7	2918.5	2886.0	2828.2	2782.3	2748.2	2743.8	2715.7	2640.2	2520.2	2326.2
22.5°	2887.4	2896.3	2872.6	2838.5	2816.3	2826.8	2819.4	2843.0	2803.1	2657.9	2438.8
25°	2891.9	2900.8	2883.0	2863.8	2883.0	2946.7	2966.0	3068.1	3032.6	2832.7	2560.2
27.5°	3031.0	3048.9	3023.6	3032.6	3100.7	3248.8	3285.8	3462.0	3305.0	3054.8	2749.7
30°	3340.5	3328.7	3281.3	3324.3	3561.2	3875.1	3864.7	3836.6	3590.8	3310.9	2974.8
32.5°	3621.9	3611.5	3608.6	3793.7	4223.1	4375.6	4368.2	4095.8	3847.0	3604.1	3196.9
35°	3735.9	3695.9	3687.0	4135.7	4853.8	4652.5	4606.6	4202.3	4157.9	3923.9	3423.5
37.5°	4079.4	4051.3	3913.6	4192.0	4602.1	4535.5	4499.9	4386.0	4489.6	4206.8	3679.6
40°	4787.2	4708.8	4584.4	4311.9	4245.3	4273.5	4308.9	4621.4	4882.0	4593.3	4021.7
42.5°	5666.8	5649.0	5418.1	4910.2	4411.1	4449.6	4495.6	5113.0	5446.1	5175.2	4579.9
45°	6722.5	6747.8	6414.6	5814.8	5160.4	5192.9	5259.6	5838.6	6210.2	6079.9	5458.0
47.5°	7682.1	7662.9	7550.3	6926.9	6322.8	6250.2	6358.3	6770.0	7267.5	7288.2	6547.9
50°	8647.5	8749.7	8582.4	8338.1	7889.4	7736.9	7696.9	7898.3	8656.4	8557.2	7856.8
52.5°	10035.0	10088.3	9774.4	9712.2	9814.4	9319.8	9279.8	9328.7	10006.9	9666.3	8837.1
55°	10907.2	10876.1	10759.1	11244.8	11649.0	11031.6	10981.2	10784.2	11127.8	10449.6	9780.3
57.5°	11182.5	11227.0	11499.4	12377.5	13334.1	12809.9	12718.1	12158.3	11936.2	11179.6	10648.0
60°	11059.7	11141.1	11728.9	13035.0	14361.8	14283.2	14204.7	13264.5	12516.7	11789.6	11256.6
62.5°	10184.5	10298.5	11238.9	12918.0	14709.7	15199.8	15102.1	13954.5	12903.2	12085.8	11363.3
65°	8535.0	8619.4	9969.8	11856.3	14215.1	15513.8	15478.2	14170.7	12963.9	11814.9	10633.2
67.5°	6084.4	6371.7	7622.8	9992.1	12752.2	14977.7	15038.4	13911.6	12393.8	10643.6	8805.9
70°	3824.8	4020.2	4917.6	7153.5	10223.0	13140.1	13340.0	12725.5	10756.1	8296.6	5894.8
72.5°	1824.3	1969.4	2609.0	4528.1	7215.7	10338.6	10496.9	10446.6	8317.3	5227.0	3041.5
75°	812.9	867.7	1245.3	2311.4	4658.4	6949.1	7359.3	7427.4	5197.4	2557.2	1183.1
77.5°	414.6	416.1	583.4	1119.5	2326.2	4146.0	4227.5	4465.9	2817.9	1126.9	411.7
80°	220.6	235.5	309.5	528.7	1206.8	2041.9	2031.6	2232.9	1249.7	552.3	137.7
82.5°	99.2	109.6	174.8	276.9	589.4	774.4	835.1	913.6	536.1	352.4	60.7
85°	29.6	35.6	85.9	139.2	213.2	223.6	250.3	322.8	303.5	250.3	31.1
87.5°	4.5	4.5	35.6	38.5	31.1	39.9	41.5	45.9	97.7	91.8	16.3
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°	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	1806.5	1796.1	1759.1	1728.0	1701.3	1685.1	1665.9	1654.0	1648.1	1643.7	1645.1
5°	1813.9	1788.7	1725.1	1674.7	1636.2	1594.8	1566.6	1550.3	1542.9	1531.1	1531.1
7.5°	1855.3	1815.4	1726.6	1649.5	1582.9	1526.7	1473.3	1454.1	1440.8	1437.8	1434.8
10°	1914.6	1864.2	1742.8	1636.2	1541.5	1464.4	1388.9	1322.3	1270.5	1239.4	1234.9
12.5°	1988.6	1916.1	1768.0	1627.3	1505.9	1369.7	1169.7	1035.0	944.7	916.6	921.1
15°	2056.7	1978.3	1793.2	1619.9	1440.8	1135.8	909.2	755.2	709.3	704.8	706.4
17.5°	2138.2	2044.9	1822.8	1609.6	1261.6	867.7	675.2	633.8	642.6	657.4	656.0
20°	2222.6	2116.0	1858.4	1547.4	1006.9	653.0	596.8	601.1	614.5	627.8	630.8
22.5°	2312.9	2197.4	1899.8	1397.8	768.5	568.6	565.7	571.5	584.9	599.7	602.7
25°	2437.3	2299.6	1930.9	1202.4	582.0	525.6	531.6	541.9	553.8	570.1	573.1
27.5°	2597.3	2437.3	1947.2	947.6	503.4	487.2	488.6	503.4	518.2	533.0	533.0
30°	2804.6	2601.6	1914.6	716.7	465.0	450.2	444.2	453.1	472.4	487.2	488.6
32.5°	2989.6	2757.1	1828.8	547.9	436.8	416.1	401.2	402.8	410.2	419.1	420.5
35°	3174.7	2908.2	1682.1	460.5	407.2	383.5	361.3	349.4	343.5	339.1	343.5
37.5°	3411.6	3096.2	1486.6	419.1	382.1	352.4	321.3	296.1	275.4	262.1	265.1
40°	3716.6	3356.9	1255.7	392.4	358.4	322.8	281.3	248.8	213.2	201.4	195.4
42.5°	4220.1	3752.2	1012.8	370.2	334.6	291.7	239.9	195.4	162.9	151.0	154.0
45°	5015.3	4251.2	780.4	346.5	310.9	257.7	201.4	154.0	127.3	121.4	124.4
47.5°	6069.6	4896.8	601.1	319.8	281.3	220.6	158.4	121.4	105.1	103.6	102.2
50°	7061.6	5498.0	502.0	290.2	245.8	183.6	130.3	102.2	91.8	90.3	90.3
52.5°	7959.0	5928.9	408.7	256.2	207.3	151.0	109.6	90.3	81.4	77.0	77.0
55°	8757.1	6210.2	331.7	214.7	162.9	119.9	94.8	81.4	71.1	65.2	63.7
57.5°	9359.7	6244.3	248.8	171.7	121.4	93.3	81.4	71.1	59.2	51.8	48.9
60°	9617.4	5949.7	183.6	130.3	90.3	74.0	65.2	57.8	44.4	37.0	35.6
62.5°	9358.3	5376.6	136.2	99.2	69.6	54.7	45.9	43.0	31.1	22.2	20.7
65°	8429.8	4548.8	108.1	75.5	51.8	39.9	29.6	28.2	19.3	10.3	8.9
67.5°	6753.7	3562.6	85.9	56.3	37.0	26.7	19.3	17.7	10.3	2.9	2.9
70°	4391.9	2277.3	69.6	41.5	23.7	17.7	11.9	8.9	5.9	1.5	0.0
72.5°	2172.2	1064.6	56.3	32.5	16.3	8.9	4.5	2.9	4.5	0.0	0.0
75°	842.5	379.0	41.5	22.2	8.9	4.5	2.9	0.0	1.5	0.0	0.0
77.5°	279.9	125.9	25.1	11.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	103.6	48.9	13.3	7.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	41.5	19.3	8.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	11.9	5.9	4.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	8.9	5.9	4.5	2.9	1.5	0.0	0.0	0.0	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)