

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: P647870

Luminaire Tested: **GALN-SA4A-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14303.9 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

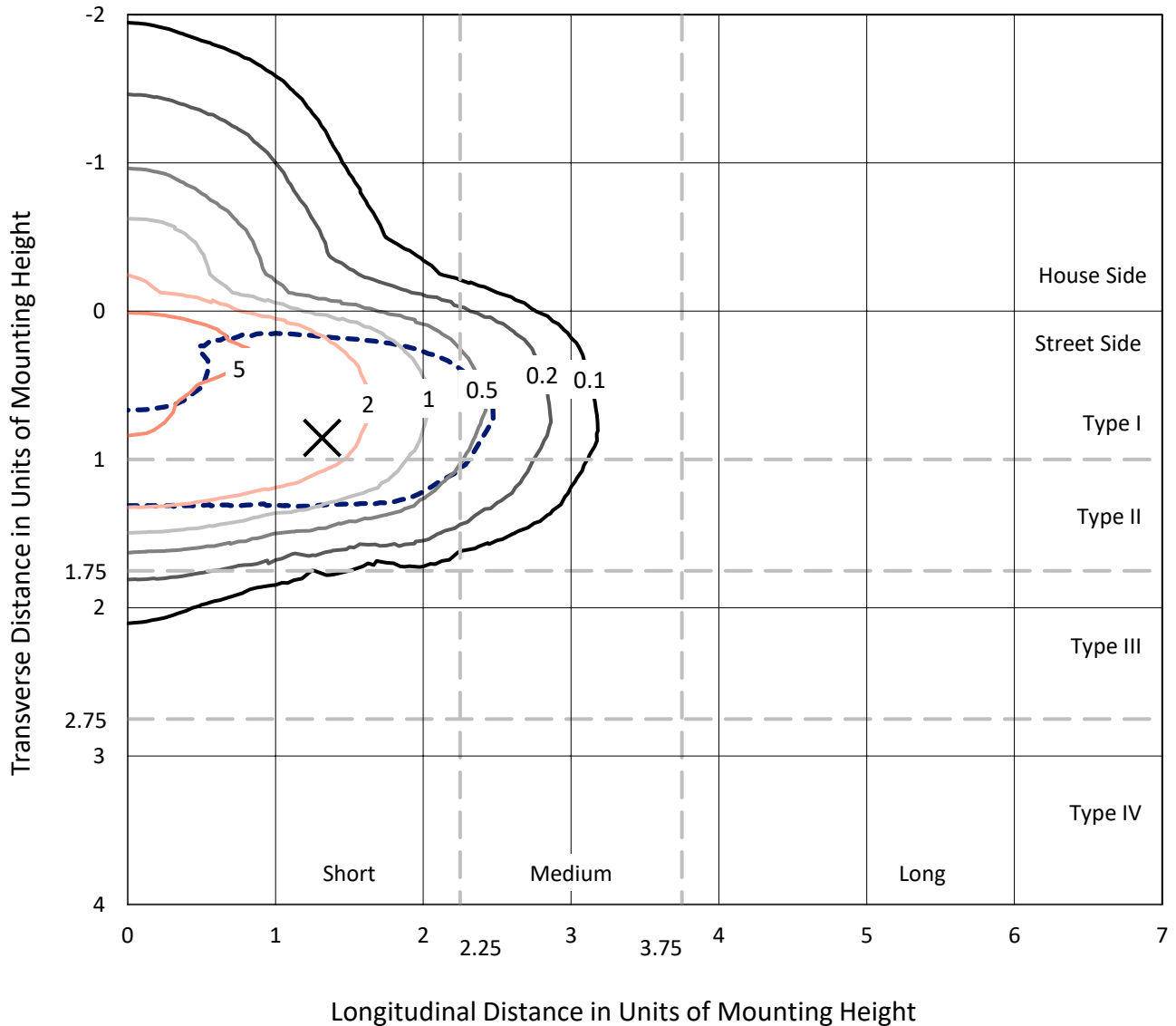
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

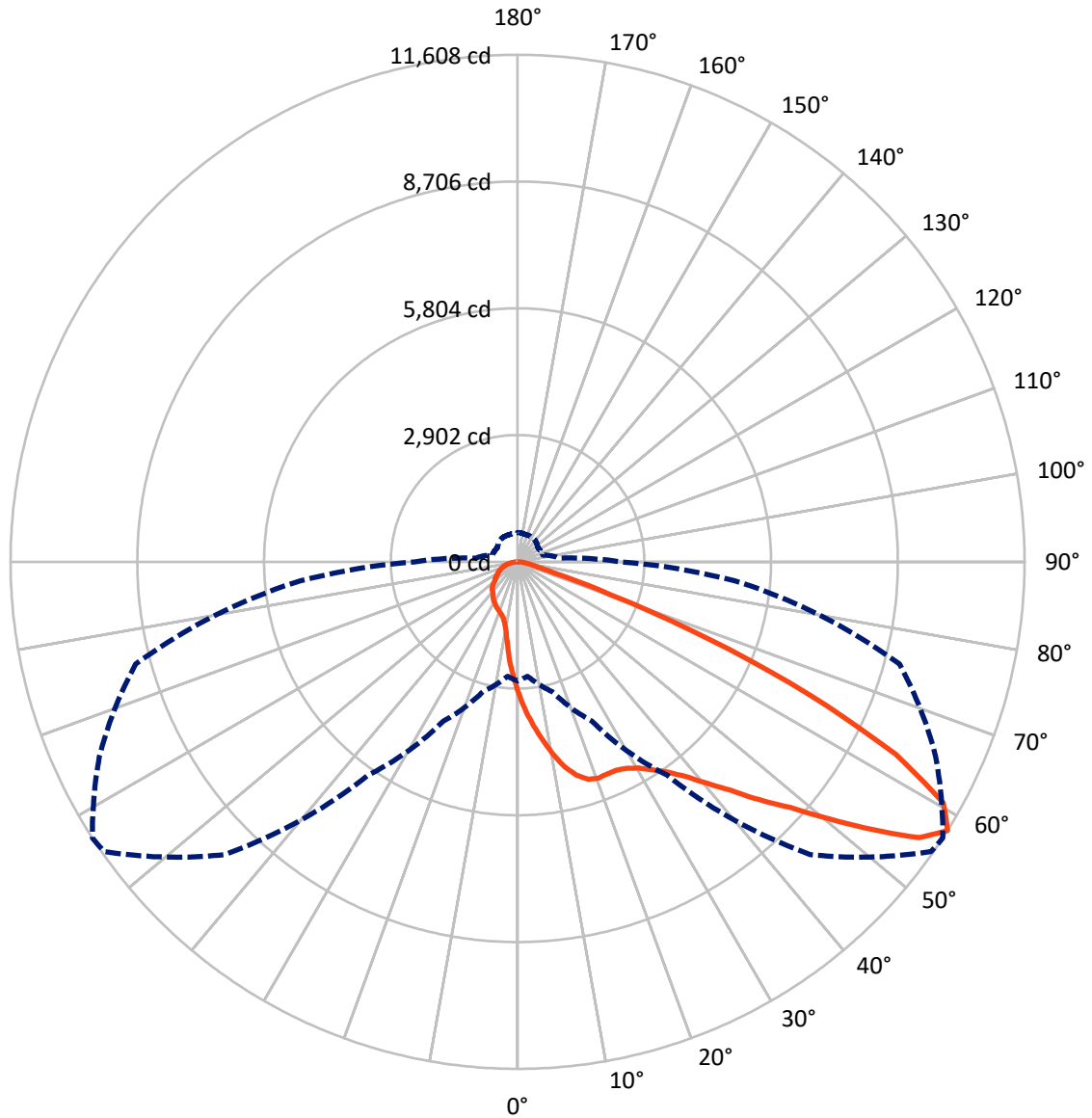
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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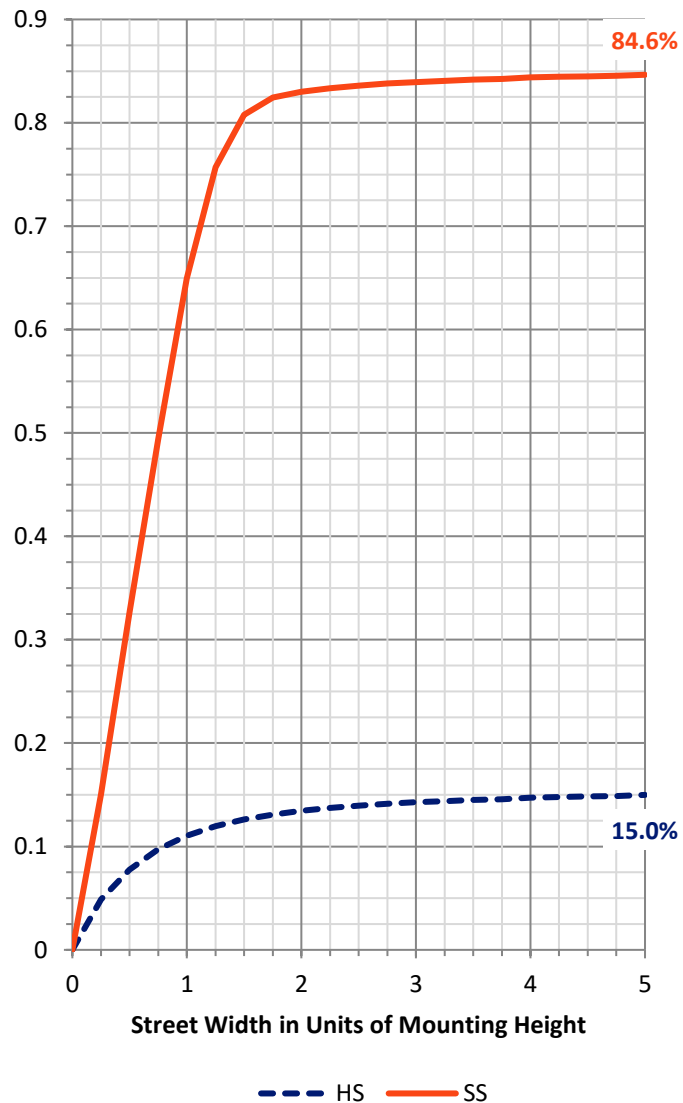
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2175.3	0.0	2175.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	12128.6	0.0	12128.6
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	14303.9	0.0	14303.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.8	2.0
10°-20°	851.2	6.0
20°-30°	1413.4	9.9
30°-40°	2128.9	14.9
40°-50°	3196.4	22.3
50°-60°	3582.8	25.0
60°-70°	2096.8	14.7
70°-80°	620.2	4.3
80°-90°	125.4	0.9
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°	14303.9	100.0
0°-180°	14303.9	100.0

**Coefficient of Utilization**

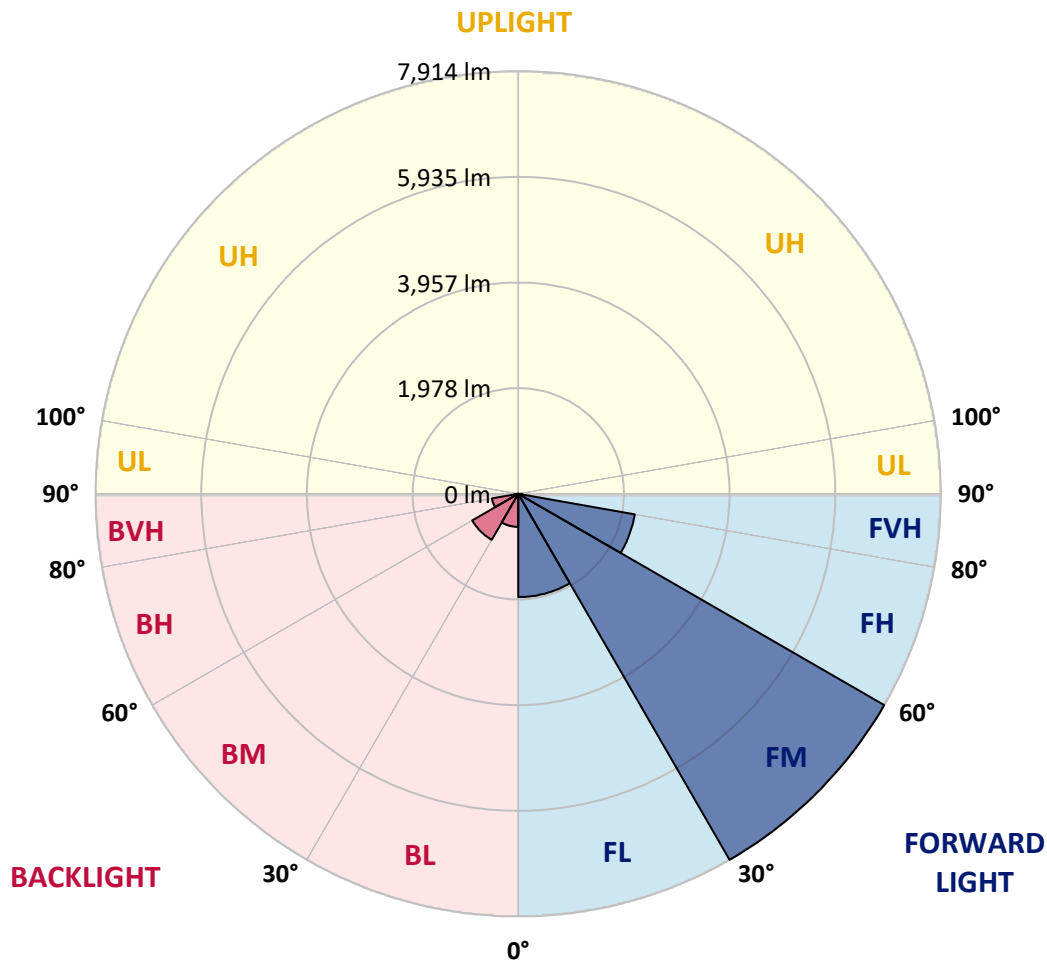


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.5	13.5			
FM (30°-60°)	7913.5	55.3			
FH (60°-80°)	2216.5	15.5			G2/5000
FVH (80°-90°)	65.0	0.5			G1/100
BL (0°-30°)	619.8	4.3	B2/1000		
BM (30°-60°)	994.6	7.0	B1/1000		
BH (60°-80°)	500.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	60.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3734.0	3693.3	3661.2	3633.0	3596.2	3496.8	3397.4	3395.8	3316.7	3194.6	3069.3
5°	4342.4	4287.6	4294.7	4207.0	4119.3	3975.2	3764.6	3753.6	3585.3	3356.6	3124.1
7.5°	4738.6	4739.3	4717.4	4667.3	4572.6	4408.9	4170.2	4116.2	3882.0	3535.2	3186.7
10°	4718.2	4739.3	4776.1	4819.2	4848.2	4767.5	4549.9	4484.1	4179.6	3751.3	3256.4
12.5°	4447.3	4480.2	4532.6	4640.7	4815.3	4948.4	4874.0	4820.8	4524.0	3966.6	3333.2
15°	4278.2	4297.8	4326.8	4399.6	4587.4	4906.1	5098.7	5070.6	4849.0	4210.1	3419.3
17.5°	4226.6	4246.1	4255.5	4300.2	4434.0	4760.5	5187.2	5237.3	5137.1	4434.0	3506.2
20°	4278.2	4287.6	4287.6	4314.3	4419.1	4675.1	5183.3	5284.3	5373.6	4702.5	3587.6
22.5°	4413.6	4417.5	4412.0	4421.4	4499.7	4698.6	5146.5	5271.8	5564.6	4930.4	3651.1
25°	4633.6	4639.9	4603.9	4582.0	4639.1	4802.0	5166.9	5282.0	5714.2	5148.1	3693.3
27.5°	4883.4	4891.2	4847.4	4796.5	4823.1	4929.6	5246.7	5350.1	5826.1	5362.6	3720.0
30°	5189.6	5192.7	5119.1	5058.0	5040.8	5119.9	5383.0	5479.3	5965.5	5615.5	3759.9
32.5°	5502.8	5526.3	5431.5	5345.4	5316.4	5340.7	5584.2	5677.4	6131.5	5887.2	3824.1
35°	5928.7	5932.6	5819.1	5714.2	5618.7	5650.0	5841.8	5909.1	6360.9	6201.2	3914.9
37.5°	6460.4	6496.4	6339.8	6144.0	6026.6	5981.2	6153.4	6227.0	6682.7	6586.4	4051.9
40°	7050.8	7064.1	6930.2	6808.0	6593.5	6461.9	6581.0	6660.8	7079.7	7046.1	4210.9
42.5°	7421.8	7450.8	7461.0	7448.4	7287.2	7066.4	7111.8	7149.4	7549.5	7477.4	4373.8
45°	7547.1	7590.2	7735.8	8044.3	8061.5	7843.9	7738.2	7774.2	8061.5	7912.8	4529.5
47.5°	7339.7	7413.2	7681.8	8314.4	8788.2	8804.6	8485.9	8406.8	8528.2	8273.7	4642.3
50°	6803.3	6819.0	7230.1	8146.1	9128.8	9723.1	9393.4	9246.2	8971.4	8540.7	4719.8
52.5°	5973.4	5991.4	6335.9	7363.9	8918.9	10365.0	10455.1	10192.1	9421.6	8748.2	4770.7
55°	4434.0	4538.1	4917.1	5910.7	7924.5	10304.7	11299.2	11149.6	9965.8	8912.7	4850.5
57.5°	2726.3	2630.8	3080.2	4021.4	5960.0	9476.4	11559.9	11608.4	10564.7	9050.5	4984.4
60°	1254.4	1273.2	1458.7	2074.1	3633.0	7413.2	10888.1	11195.0	10895.9	9045.8	5018.1
62.5°	864.4	847.2	800.2	910.6	1656.7	4688.4	9196.9	9716.8	10232.0	8764.7	4884.2
65°	772.8	755.6	664.8	634.2	761.1	2043.6	6685.9	7342.0	8615.1	8055.3	4550.6
67.5°	721.9	698.4	604.5	545.0	543.4	813.5	3942.3	4732.3	6389.9	6810.4	3943.1
70°	668.7	649.9	556.7	490.9	462.8	511.3	1732.7	2268.3	4149.0	4907.7	3071.6
72.5°	615.4	593.5	509.7	439.3	402.5	382.9	664.0	863.6	2344.2	2942.4	1883.0
75°	537.9	527.0	455.7	397.8	357.8	309.3	421.3	480.8	1121.3	1351.5	945.1
77.5°	470.6	458.8	404.8	347.7	318.7	251.3	299.1	326.5	472.9	548.1	426.7
80°	344.5	356.3	341.4	306.9	284.2	197.3	201.2	223.9	281.1	310.9	260.7
82.5°	218.5	240.4	263.1	236.5	215.3	155.8	139.4	148.0	191.8	203.6	115.9
85°	91.6	93.2	152.7	144.1	122.9	92.4	83.8	88.5	102.6	107.3	54.0
87.5°	35.2	34.5	54.0	50.1	38.4	26.6	26.6	29.8	40.7	37.6	17.2
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°	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1	3005.1
2.5°	3015.3	2959.7	2849.3	2712.2	2612.0	2499.3	2399.8	2328.6	2301.9	2289.4	2265.9
5°	3012.9	2903.3	2674.6	2435.1	2242.4	2045.1	1878.3	1770.3	1760.9	1688.9	1681.8
7.5°	3013.7	2846.1	2482.0	2129.7	1836.1	1634.0	1496.2	1460.3	1417.2	1406.3	1411.7
10°	3016.0	2773.3	2275.3	1827.4	1543.2	1411.0	1359.3	1345.2	1346.8	1351.5	1352.2
12.5°	3019.2	2702.8	2060.8	1598.0	1378.9	1324.1	1318.6	1331.1	1344.4	1354.6	1356.9
15°	3023.1	2622.2	1851.7	1413.3	1296.6	1292.0	1310.0	1331.1	1349.9	1364.8	1367.1
17.5°	3018.4	2528.2	1676.3	1299.8	1251.2	1273.9	1303.7	1330.3	1347.5	1361.6	1363.2
20°	3007.4	2423.3	1507.2	1219.9	1223.0	1259.8	1292.0	1317.0	1335.8	1342.8	1348.3
22.5°	2965.1	2298.0	1360.1	1158.1	1189.4	1240.3	1278.6	1293.5	1272.4	1257.5	1261.4
25°	2893.1	2135.2	1223.0	1107.9	1158.8	1212.9	1252.0	1216.0	1198.8	1192.5	1195.6
27.5°	2803.1	1956.6	1119.7	1055.5	1119.7	1182.3	1171.4	1165.1	1157.3	1147.1	1149.4
30°	2706.0	1782.0	1032.0	1014.8	1077.4	1113.4	1118.1	1128.3	1119.7	1104.0	1110.3
32.5°	2615.9	1617.6	965.4	980.3	1047.7	1042.2	1077.4	1089.2	1049.2	996.8	999.1
35°	2539.2	1465.0	915.3	946.6	996.8	999.1	1034.3	993.6	950.6	925.5	927.1
37.5°	2481.2	1346.0	882.4	917.7	931.8	961.5	942.7	921.6	916.1	898.9	899.7
40°	2446.8	1241.8	861.3	895.0	892.6	913.0	852.7	873.8	881.7	876.2	877.0
42.5°	2412.3	1168.2	839.4	863.6	862.9	822.9	809.6	827.6	848.0	850.3	848.8
45°	2384.9	1111.1	816.7	815.9	831.5	768.9	765.0	776.0	804.9	819.0	818.2
47.5°	2354.4	1063.3	782.2	760.3	765.0	735.2	729.0	733.7	768.9	791.6	797.9
50°	2316.0	1015.6	739.2	709.4	689.8	703.9	705.5	706.3	741.5	767.3	772.8
52.5°	2285.5	979.5	689.8	667.9	644.4	675.7	687.5	689.0	710.2	731.3	735.2
55°	2303.5	959.2	641.3	625.6	604.5	646.8	669.5	672.6	677.3	693.0	695.3
57.5°	2357.5	963.9	602.1	581.8	566.1	612.3	650.7	653.0	649.9	668.7	671.8
60°	2374.0	961.5	573.2	533.2	523.8	575.5	623.3	628.0	627.2	654.6	660.1
62.5°	2305.1	931.8	544.2	492.5	486.2	537.9	584.9	603.7	607.6	646.8	653.8
65°	2143.0	870.7	505.8	449.4	449.4	498.0	548.1	573.9	584.9	637.4	645.2
67.5°	1929.2	798.7	466.7	412.6	411.1	459.6	509.0	535.6	552.8	624.1	628.7
70°	1601.2	701.6	418.1	372.7	372.7	416.6	461.2	493.3	518.3	599.0	599.0
72.5°	1097.0	583.3	359.4	327.3	328.1	368.8	414.2	450.2	480.0	548.9	550.4
75°	693.7	455.7	295.2	278.7	281.9	320.2	367.2	404.8	464.3	542.6	545.0
77.5°	368.8	320.2	234.9	231.0	234.9	270.1	322.6	374.3	465.9	470.6	462.8
80°	238.8	227.1	185.6	177.7	179.3	217.7	287.4	355.5	374.3	379.0	361.7
82.5°	130.0	144.1	131.5	123.7	123.7	169.9	245.1	282.7	268.6	223.2	213.0
85°	55.6	67.3	68.1	59.5	57.2	104.9	164.4	154.3	143.3	137.0	135.5
87.5°	15.7	21.9	21.9	16.4	12.5	29.0	32.9	9.4	0.0	0.8	1.6
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)