

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: P648145

Luminaire Tested: **GALN-SA9A-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648145  
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-SA9A-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 32779.5 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

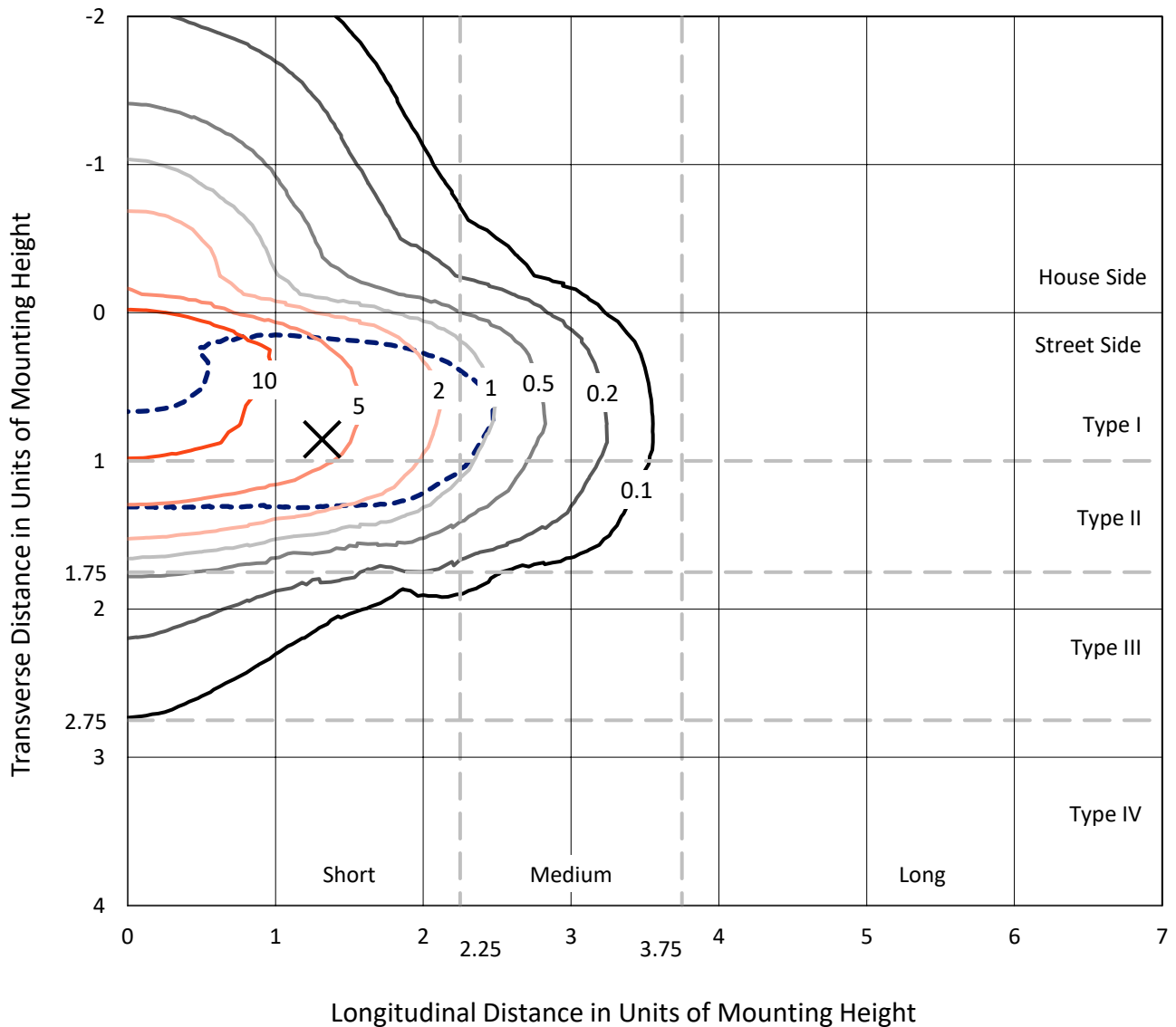
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

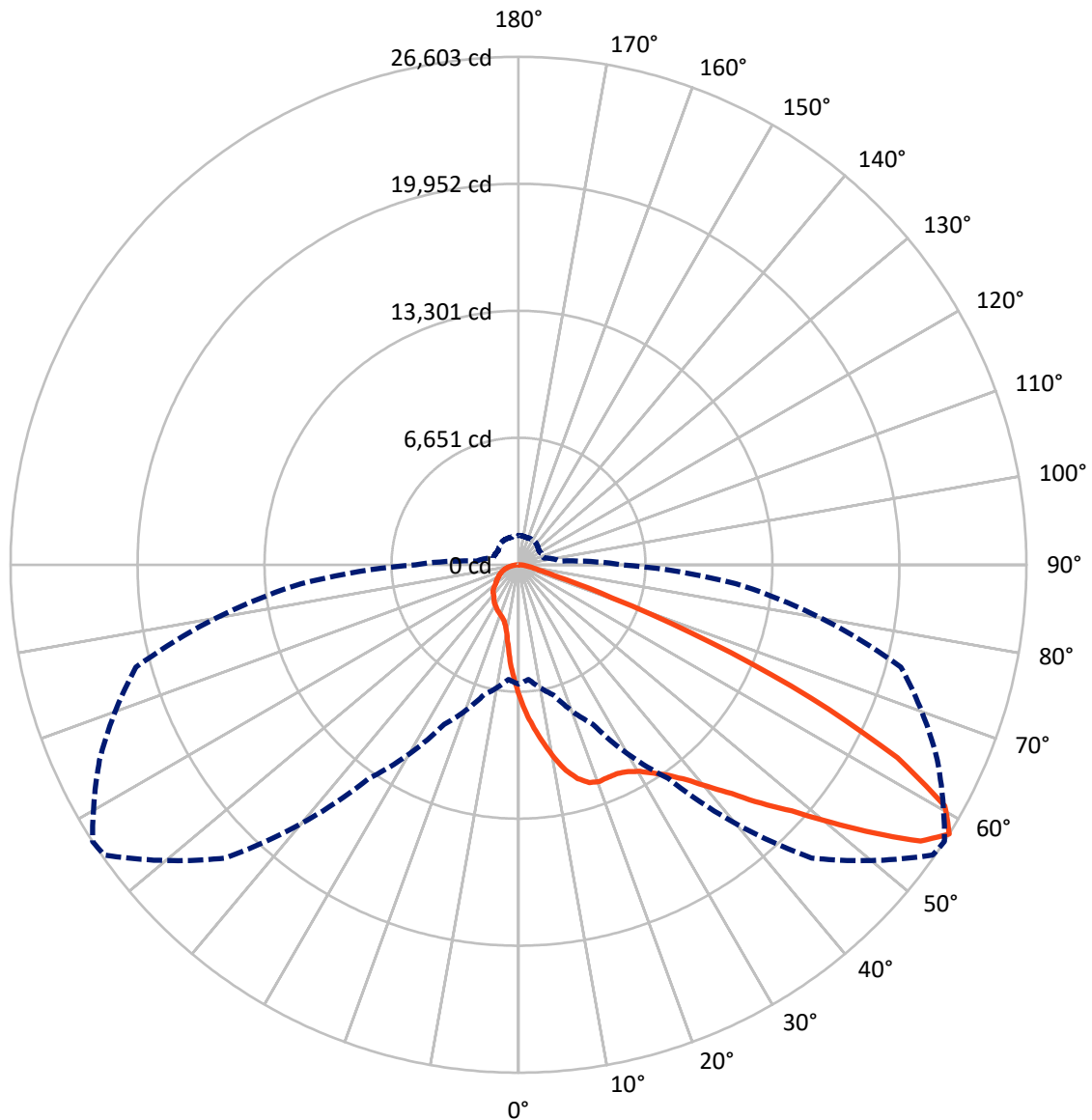
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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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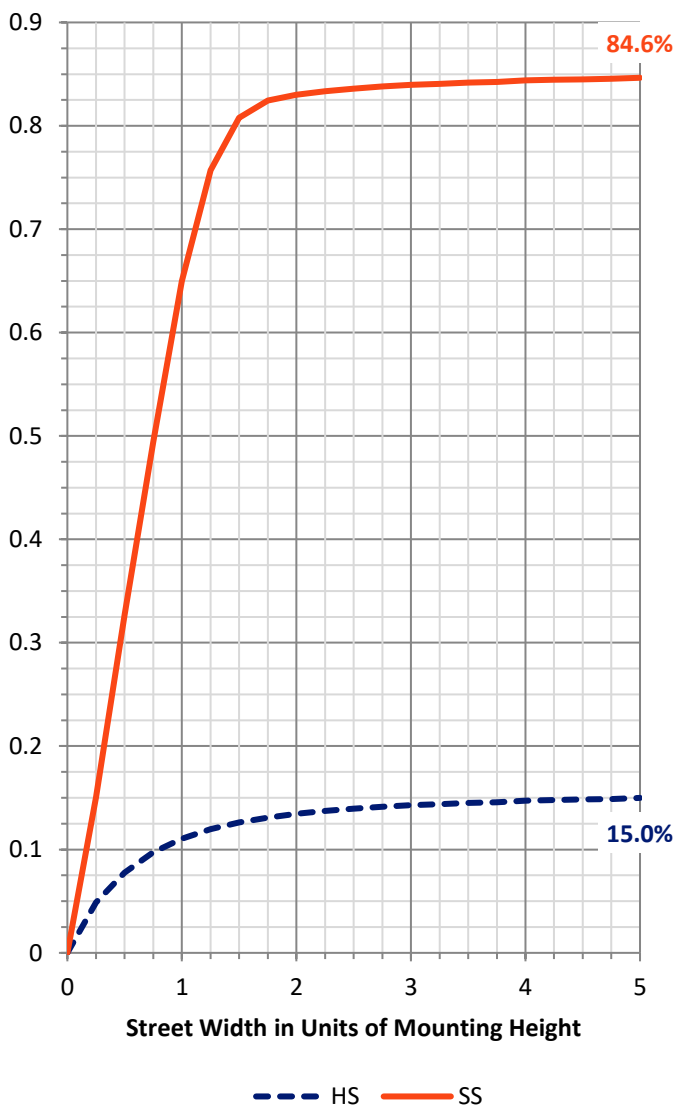
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4984.8	0.0	4984.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	27794.7	0.0	27794.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	32779.5	0.0	32779.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.9	2.0
10°-20°	1950.6	6.0
20°-30°	3239.0	9.9
30°-40°	4878.8	14.9
40°-50°	7325.1	22.3
50°-60°	8210.5	25.0
60°-70°	4805.2	14.7
70°-80°	1421.3	4.3
80°-90°	287.3	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°	32779.5	100.0
0°-180°	32779.5	100.0

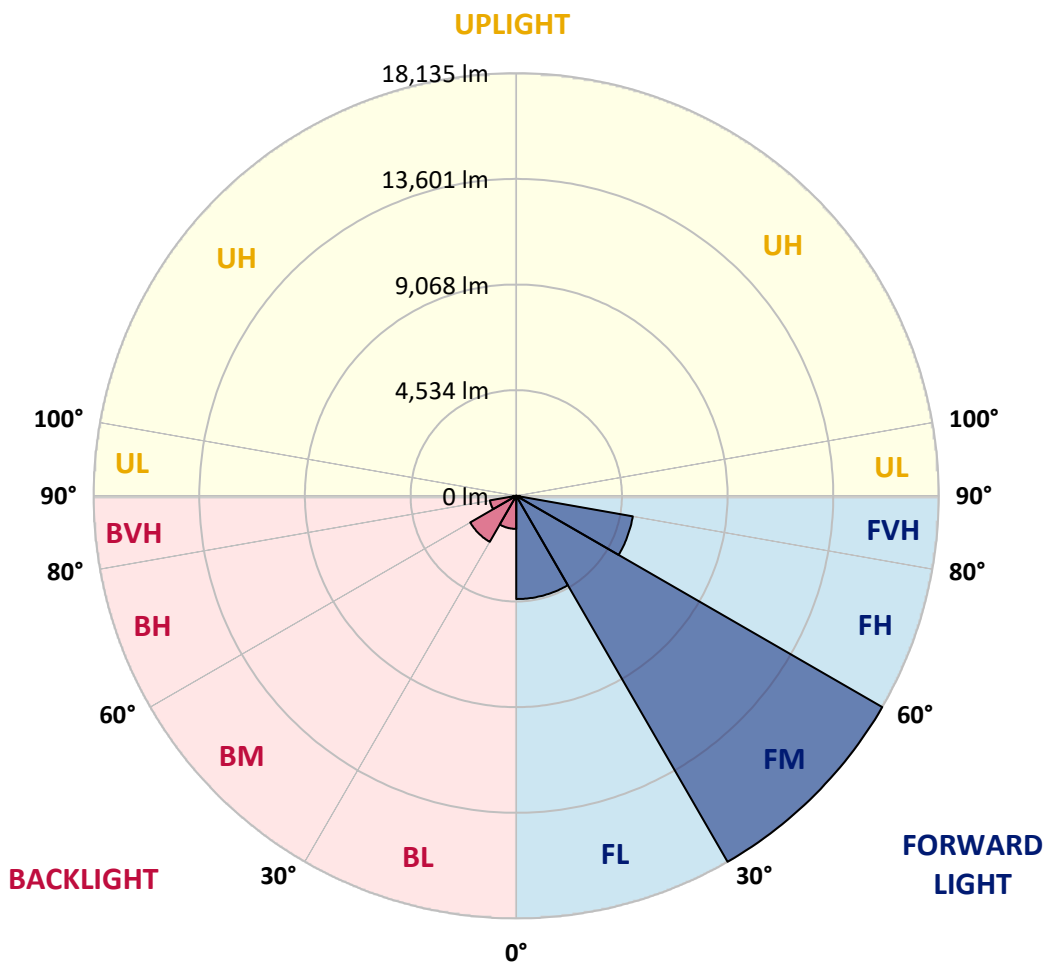


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4431.0	13.5			
FM (30°-60°)	18135.1	55.3			
FH (60°-80°)	5079.5	15.5			G3/7500
FVH (80°-90°)	149.1	0.5			G2/225
BL (0°-30°)	1420.4	4.3	B3/2500		
BM (30°-60°)	2279.3	7.0	B2/2500		
BH (60°-80°)	1147.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	138.2	0.4			G2/225
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°	57°	65°	75°	85°
0°	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6
2.5°	8557.1	8463.8	8390.2	8325.6	8241.3	8013.5	7785.5	7782.0	7600.7	7320.8	7033.8
5°	9951.3	9825.7	9841.8	9640.8	9439.9	9109.7	8627.1	8602.0	8216.2	7692.3	7159.4
7.5°	10859.2	10861.0	10810.8	10695.9	10478.8	10103.8	9556.5	9432.7	8896.2	8101.4	7302.9
10°	10812.6	10861.0	10945.3	11044.1	11110.5	10925.6	10426.8	10276.1	9578.0	8596.6	7462.5
12.5°	10191.8	10267.1	10387.4	10634.9	11035.1	11340.1	11169.7	11047.7	10367.5	9090.0	7638.4
15°	9804.2	9849.0	9915.4	10082.3	10512.9	11243.2	11684.6	11620.0	11112.3	9648.0	7835.8
17.5°	9685.7	9730.6	9752.1	9854.4	10161.2	10909.5	11887.3	12002.2	11772.6	10161.2	8035.0
20°	9804.2	9825.7	9825.7	9886.7	10127.2	10713.9	11878.4	12109.9	12314.4	10776.7	8221.6
22.5°	10114.6	10123.6	10111.0	10132.5	10312.0	10767.7	11794.1	12081.1	12752.3	11298.8	8366.9
25°	10618.8	10633.1	10550.6	10500.3	10631.3	11004.6	11840.7	12104.5	13095.0	11797.6	8463.8
27.5°	11191.2	11209.1	11108.7	10992.0	11053.0	11297.0	12023.7	12260.6	13351.6	12289.3	8524.8
30°	11892.8	11900.0	11731.3	11591.3	11551.8	11733.0	12335.9	12556.7	13670.9	12868.8	8616.3
32.5°	12610.4	12664.3	12447.2	12249.8	12183.4	12239.1	12797.1	13010.6	14051.3	13491.5	8763.5
35°	13586.6	13595.5	13335.4	13095.0	12876.0	12947.8	13387.4	13541.8	14577.0	14211.0	8971.6
37.5°	14805.0	14887.5	14528.6	14080.1	13810.9	13706.8	14101.6	14270.3	15314.5	15093.8	9285.6
40°	16157.8	16188.4	15881.5	15601.6	15109.9	14808.5	15081.3	15264.3	16224.2	16147.1	9649.8
42.5°	17008.3	17074.7	17098.1	17069.4	16699.7	16193.8	16297.8	16384.0	17300.9	17135.7	10023.1
45°	17295.5	17394.1	17727.9	18434.9	18474.3	17975.5	17733.2	17815.8	18474.3	18133.4	10380.2
47.5°	16819.9	16988.6	17604.1	19053.9	20139.5	20177.1	19446.8	19265.6	19543.8	18960.6	10638.5
50°	15590.9	15626.7	16568.7	18668.1	20920.0	22281.8	21526.5	21189.2	20559.3	19572.4	10816.1
52.5°	13688.9	13730.1	14519.6	16875.6	20439.1	23753.2	23959.6	23356.7	21591.1	20047.9	10932.8
55°	10161.2	10399.9	11268.3	13545.4	18160.3	23615.0	25893.8	25551.1	22838.1	20424.7	11115.8
57.5°	6247.8	6028.9	7058.8	9215.6	13658.3	21716.7	26491.3	26602.6	24210.8	20740.6	11422.6
60°	2874.5	2917.5	3342.8	4753.1	8325.6	16988.6	24951.8	25655.2	24969.8	20729.8	11499.8
62.5°	1980.9	1941.4	1833.8	2086.8	3796.8	10744.4	21076.1	22267.5	23448.2	20085.6	11193.0
65°	1771.0	1731.5	1523.4	1453.4	1744.1	4683.2	15321.7	16825.3	19742.9	18459.9	10428.6
67.5°	1654.4	1600.5	1385.2	1248.9	1245.3	1864.3	9034.4	10844.9	14643.4	15607.0	9036.2
70°	1532.3	1489.3	1275.7	1125.0	1060.4	1171.7	3970.8	5198.2	9508.1	11246.8	7039.1
72.5°	1410.3	1360.1	1168.1	1006.6	922.3	877.4	1521.6	1979.1	5372.2	6743.0	4315.3
75°	1232.7	1207.5	1044.3	911.5	820.0	708.8	965.4	1101.7	2569.5	3097.0	2165.8
77.5°	1078.3	1051.5	927.7	796.7	730.3	576.0	685.4	748.2	1083.8	1256.0	977.9
80°	789.5	816.4	782.3	703.4	651.3	452.2	461.1	513.2	644.2	712.4	597.5
82.5°	500.7	550.8	602.9	541.9	493.4	357.0	319.4	339.1	439.6	466.5	265.6
85°	209.9	213.5	349.9	330.2	281.7	211.7	192.0	202.8	235.1	245.8	123.8
87.5°	80.7	78.9	123.8	114.9	87.9	61.0	61.0	68.2	93.3	86.1	39.5
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°	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6	6886.6
2.5°	6909.9	6782.5	6529.5	6215.5	5985.9	5727.5	5499.6	5336.3	5275.3	5246.6	5192.8
5°	6904.6	6653.3	6129.4	5580.4	5138.9	4686.7	4304.5	4057.0	4035.4	3870.4	3854.2
7.5°	6906.4	6522.4	5688.0	4880.5	4207.7	3744.8	3428.9	3346.4	3247.7	3222.6	3235.1
10°	6911.7	6355.5	5214.3	4188.0	3536.6	3233.4	3114.9	3082.7	3086.2	3097.0	3098.8
12.5°	6918.9	6194.0	4722.7	3662.2	3159.8	3034.2	3021.6	3050.3	3080.9	3104.2	3109.5
15°	6927.9	6009.2	4243.5	3238.7	2971.4	2960.6	3001.9	3050.3	3093.4	3127.5	3132.9
17.5°	6917.1	5793.9	3841.6	2978.6	2867.3	2919.3	2987.5	3048.5	3088.0	3120.3	3123.9
20°	6892.0	5553.4	3454.0	2795.5	2802.7	2887.1	2960.6	3018.1	3061.1	3077.3	3089.8
22.5°	6795.1	5266.3	3116.7	2653.8	2725.5	2842.2	2930.1	2964.2	2915.7	2881.7	2890.7
25°	6630.0	4893.1	2802.7	2539.0	2655.6	2779.4	2869.1	2786.5	2747.1	2732.7	2740.0
27.5°	6423.7	4484.0	2565.9	2418.8	2565.9	2709.4	2684.3	2670.0	2652.0	2628.7	2634.1
30°	6201.2	4083.9	2364.9	2325.4	2469.0	2551.6	2562.3	2585.6	2565.9	2530.0	2544.4
32.5°	5994.8	3707.0	2212.4	2246.5	2400.8	2388.2	2469.0	2495.9	2404.4	2284.2	2289.6
35°	5818.9	3357.2	2097.6	2169.3	2284.2	2289.6	2370.3	2277.0	2178.3	2120.9	2124.5
37.5°	5686.2	3084.5	2022.2	2103.0	2135.2	2203.4	2160.4	2111.9	2099.4	2059.9	2061.6
40°	5607.2	2845.8	1973.8	2050.9	2045.5	2092.2	1954.0	2002.4	2020.4	2007.8	2009.6
42.5°	5528.3	2677.2	1923.5	1979.1	1977.3	1885.9	1855.3	1896.6	1943.2	1948.7	1945.1
45°	5465.5	2546.2	1871.4	1869.6	1905.6	1762.0	1753.1	1778.2	1844.6	1876.9	1875.1
47.5°	5395.5	2436.7	1792.5	1742.3	1753.1	1684.9	1670.5	1681.3	1762.0	1814.1	1828.4
50°	5307.6	2327.2	1693.9	1625.7	1580.8	1613.1	1616.7	1618.5	1699.2	1758.5	1771.0
52.5°	5237.6	2244.7	1580.8	1530.5	1476.7	1548.5	1575.4	1579.0	1627.5	1675.9	1684.9
55°	5278.9	2198.0	1469.5	1433.7	1385.2	1482.1	1534.1	1541.3	1552.1	1588.0	1593.3
57.5°	5402.7	2208.8	1379.8	1333.2	1297.3	1403.1	1491.1	1496.5	1489.3	1532.3	1539.5
60°	5440.4	2203.4	1313.4	1221.9	1200.4	1318.8	1428.3	1439.1	1437.3	1500.1	1512.6
62.5°	5282.5	2135.2	1247.1	1128.6	1114.3	1232.7	1340.3	1383.4	1392.4	1482.1	1498.3
65°	4911.1	1995.3	1159.2	1030.0	1030.0	1141.2	1256.0	1315.2	1340.3	1460.6	1478.5
67.5°	4421.2	1830.2	1069.4	945.6	942.0	1053.3	1166.3	1227.4	1266.8	1430.1	1440.9
70°	3669.4	1607.7	958.2	854.1	854.1	954.6	1056.9	1130.4	1187.8	1372.7	1372.7
72.5°	2513.8	1336.7	823.6	750.0	751.8	845.1	949.2	1031.8	1099.9	1257.8	1261.4
75°	1589.8	1044.3	676.4	638.8	646.0	733.9	841.6	927.7	1064.0	1243.5	1248.9
77.5°	845.1	733.9	538.3	529.3	538.3	619.0	739.2	857.7	1067.6	1078.3	1060.4
80°	547.2	520.4	425.2	407.3	410.9	498.8	658.5	814.6	857.7	868.4	829.0
82.5°	297.9	330.2	301.5	283.5	283.5	389.4	561.6	647.8	615.4	511.4	488.0
85°	127.4	154.3	156.1	136.4	131.0	240.5	376.8	353.4	328.4	314.0	310.4
87.5°	35.9	50.3	50.3	37.7	28.7	66.4	75.3	21.5	0.0	1.8	3.6
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)