

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: P270199

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-5WQ-7027-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9184.7 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

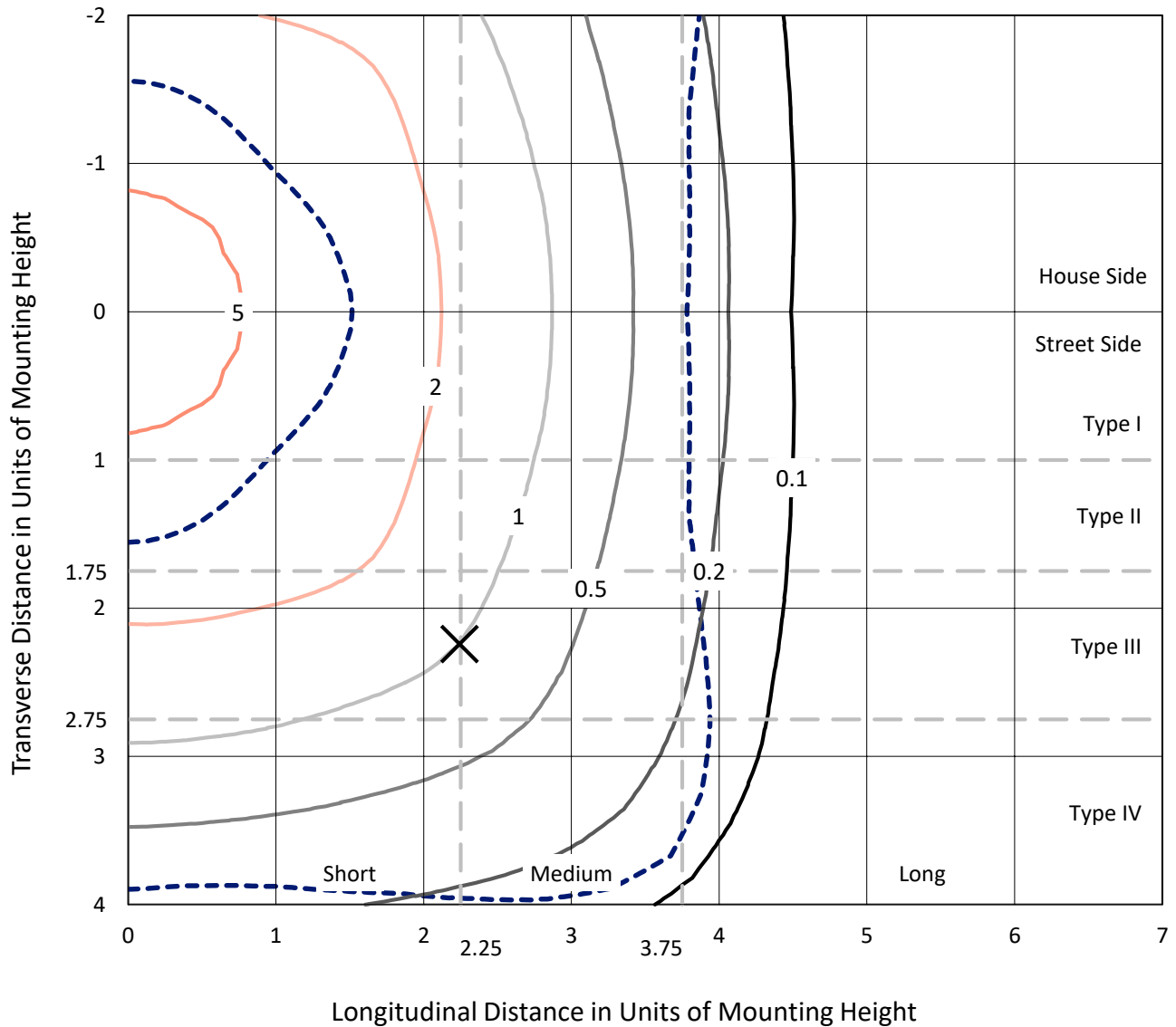
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

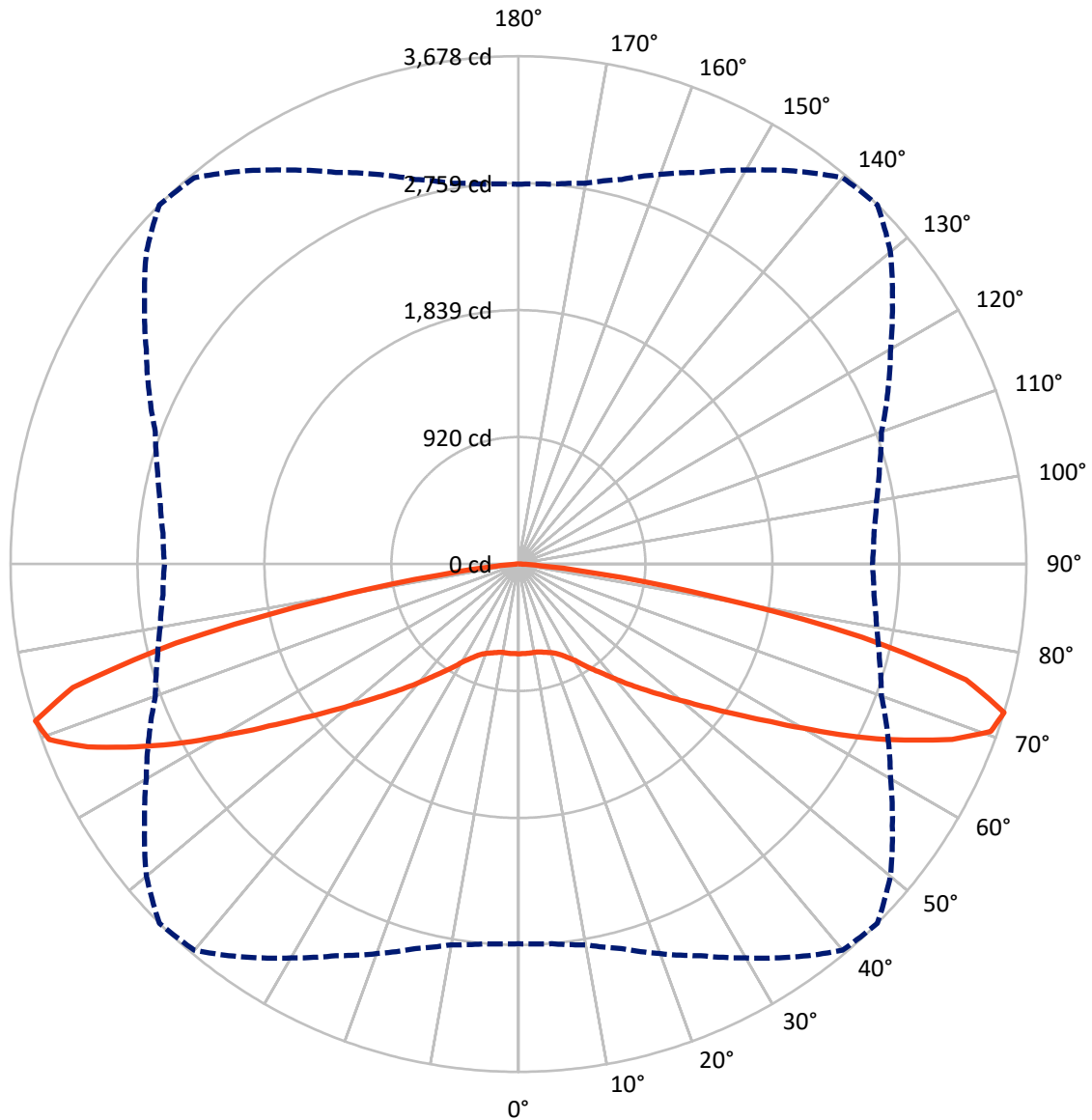


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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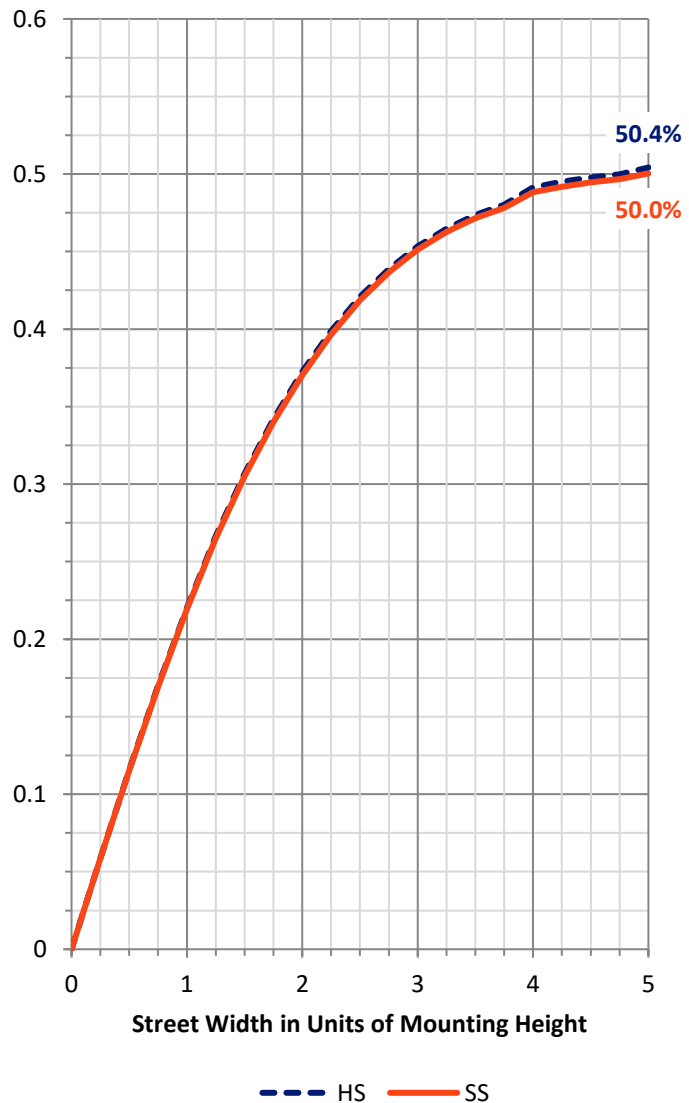
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4592.4	0.0	4592.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4592.4	0.0	4592.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9184.7	0.0	9184.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	0.7
10°-20°	188.6	2.1
20°-30°	344.7	3.8
30°-40°	594.3	6.5
40°-50°	1016.0	11.1
50°-60°	1646.8	17.9
60°-70°	2732.0	29.7
70°-80°	2406.2	26.2
80°-90°	194.0	2.1
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°	9184.7	100.0
0°-180°	9184.7	100.0

**Coefficient of Utilization**



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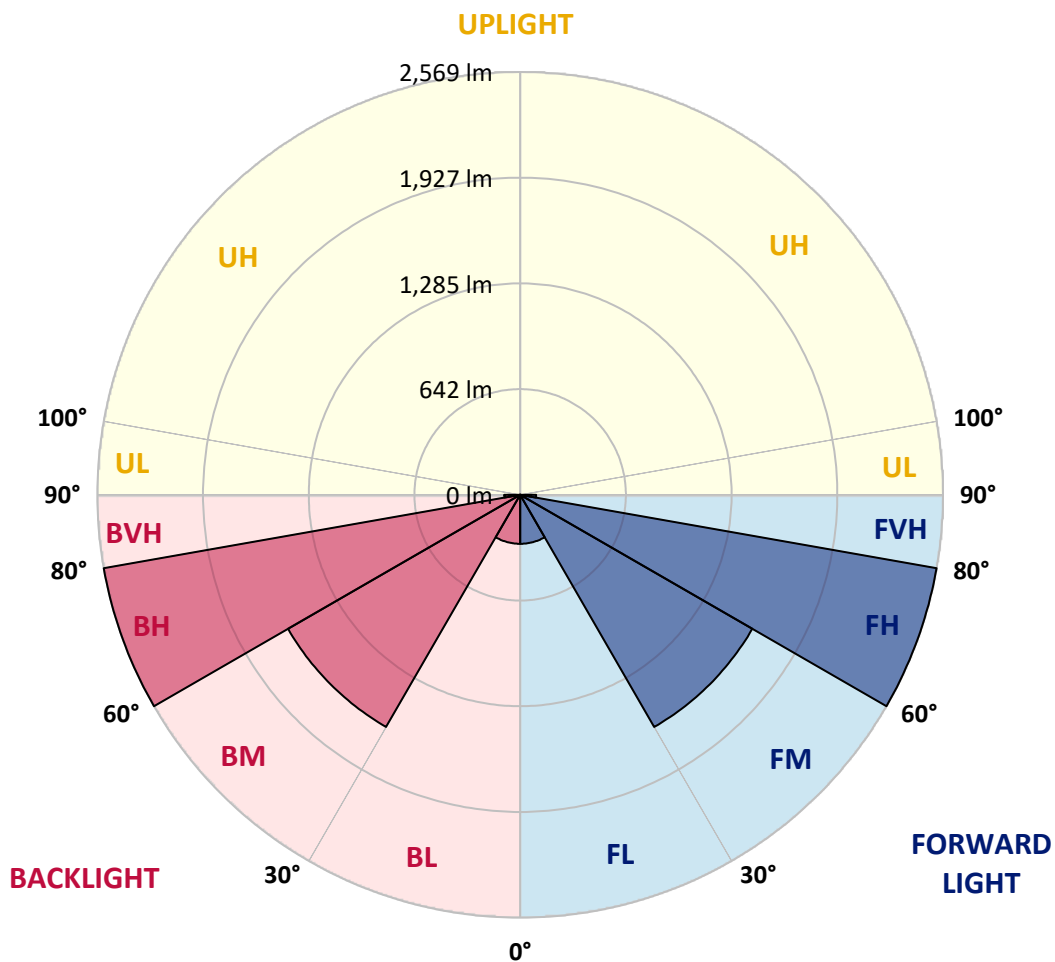
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.7	3.2			
FM (30°-60°)	1628.5	17.7			
FH (60°-80°)	2569.1	28.0			G2/5000
FVH (80°-90°)	97.0	1.1			G1/100
BL (0°-30°)	297.7	3.2	B1/500		
BM (30°-60°)	1628.5	17.7	B2/2500		
BH (60°-80°)	2569.1	28.0	B4/5000		G2/5000
BVH (80°-90°)	97.0	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
2.5°	650.5	650.8	651.4	650.8	650.8	650.5	650.1	650.5	650.1	649.1	649.6
5°	652.4	653.3	653.3	652.4	653.0	652.4	651.7	652.1	651.4	650.1	650.1
7.5°	655.0	655.5	655.5	654.7	655.0	654.2	653.3	653.0	652.1	650.5	649.1
10°	658.8	659.3	658.8	658.0	658.0	656.8	654.7	653.7	652.1	649.6	648.2
12.5°	663.0	663.5	663.0	662.2	661.8	659.6	658.0	656.8	655.5	653.3	651.4
15°	669.0	669.7	669.0	667.4	666.1	664.3	663.5	663.8	664.3	662.6	660.6
17.5°	679.8	680.3	679.1	675.3	673.5	671.9	671.9	672.7	674.0	673.2	671.0
20°	700.0	698.9	695.8	691.2	689.2	686.2	685.8	686.2	686.2	685.8	684.1
22.5°	725.4	724.6	720.8	715.0	711.9	710.2	707.8	705.6	705.2	703.9	702.2
25°	755.7	755.4	750.7	745.7	743.4	741.5	739.3	736.3	733.8	731.0	729.2
27.5°	794.6	792.8	786.0	783.5	780.5	779.3	776.3	773.0	770.8	767.2	764.9
30°	837.0	837.0	831.6	830.8	830.8	827.8	824.5	818.4	814.8	810.9	809.6
32.5°	879.6	880.0	874.5	876.1	877.5	879.6	880.3	878.4	875.8	875.4	872.9
35°	941.1	939.4	933.9	935.1	934.7	934.3	934.3	939.0	939.8	940.6	935.7
37.5°	1017.3	1017.3	1011.9	1011.9	1009.3	1006.8	1003.4	1006.5	1011.0	1012.3	1008.8
40°	1104.6	1107.5	1100.8	1100.3	1101.1	1093.1	1089.4	1094.0	1096.9	1102.0	1098.2
42.5°	1207.3	1205.3	1198.5	1197.6	1192.9	1190.4	1187.1	1191.0	1195.6	1198.9	1200.1
45°	1305.9	1304.2	1296.7	1296.7	1292.0	1289.8	1291.6	1298.0	1299.9	1304.6	1309.3
47.5°	1403.2	1401.0	1396.1	1398.1	1398.7	1402.3	1407.9	1413.8	1419.6	1426.0	1428.0
50°	1502.7	1503.0	1497.6	1502.7	1509.0	1519.5	1534.2	1543.8	1556.1	1564.0	1566.6
52.5°	1593.2	1594.9	1600.8	1612.5	1625.3	1645.9	1671.1	1694.7	1715.0	1728.3	1727.6
55°	1701.8	1704.4	1718.7	1738.9	1759.6	1790.7	1828.2	1869.9	1903.7	1923.0	1910.9
57.5°	1840.8	1846.3	1862.4	1889.8	1920.4	1960.9	2012.4	2075.2	2127.4	2153.4	2133.7
60°	2031.7	2035.1	2054.5	2084.7	2121.8	2172.0	2240.6	2325.0	2398.7	2433.1	2410.4
62.5°	2283.2	2289.5	2305.1	2335.9	2373.9	2430.6	2514.4	2619.7	2711.7	2759.7	2708.3
65°	2583.5	2603.7	2616.9	2648.1	2683.3	2743.7	2831.3	2944.1	3042.6	3074.3	3014.9
67.5°	2881.0	2898.7	2921.4	2957.2	2993.1	3060.9	3142.1	3251.7	3359.9	3388.5	3296.3
70°	3011.2	3021.3	3056.7	3105.5	3174.3	3254.2	3348.2	3471.1	3605.1	3628.8	3511.6
72.5°	2750.4	2760.5	2800.0	2883.1	3002.8	3130.0	3293.8	3474.6	3651.4	3678.0	3516.7
75°	2080.1	2063.8	2122.2	2232.3	2393.5	2570.9	2800.0	3059.2	3314.8	3348.2	3155.7
77.5°	1075.0	1072.9	1117.2	1253.7	1446.2	1647.9	1900.3	2193.0	2443.3	2544.4	2387.7
80°	302.9	306.2	327.3	395.2	507.6	653.3	850.5	1124.8	1329.5	1434.0	1346.3
82.5°	118.8	128.1	136.1	148.7	163.4	185.0	246.9	367.3	492.9	588.8	482.3
85°	42.5	45.5	64.5	76.3	77.6	81.7	93.2	108.7	131.1	156.2	128.5
87.5°	16.0	17.6	20.7	34.1	33.6	30.7	37.5	39.2	29.5	26.9	33.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
2.5°	648.8	649.1	649.1	649.6	650.1	650.1	650.8	650.8
5°	649.1	649.1	648.2	648.8	648.2	648.2	648.8	648.8
7.5°	648.2	647.9	647.0	646.6	645.8	645.8	645.8	645.8
10°	647.0	646.6	645.8	645.3	645.0	645.0	645.0	645.0
12.5°	650.5	649.1	648.2	647.9	647.9	647.9	647.9	647.9
15°	659.3	656.3	654.2	654.2	654.7	655.5	655.5	656.3
17.5°	670.2	666.8	664.7	663.0	663.8	665.1	666.1	666.8
20°	683.3	681.6	678.6	677.0	677.0	678.6	679.5	679.8
22.5°	701.3	700.0	698.9	696.7	696.7	697.7	699.3	699.3
25°	728.3	727.4	726.6	725.0	724.6	724.6	725.4	726.2
27.5°	762.0	762.5	761.7	761.3	760.0	759.5	760.8	760.3
30°	807.1	809.3	811.3	809.6	807.5	806.3	805.1	803.4
32.5°	868.2	865.6	864.0	861.0	857.3	853.8	851.4	848.4
35°	926.0	921.8	920.0	922.6	922.1	920.0	917.1	914.6
37.5°	996.7	995.9	996.7	1001.3	1000.5	1002.6	996.7	996.3
40°	1086.1	1086.8	1092.8	1098.2	1101.1	1104.0	1100.8	1097.4
42.5°	1189.6	1189.1	1191.3	1198.9	1204.0	1207.3	1200.1	1199.2
45°	1299.2	1296.3	1298.0	1304.2	1309.3	1313.1	1305.1	1305.1
47.5°	1419.6	1414.7	1409.1	1416.3	1419.2	1421.7	1415.4	1413.4
50°	1554.0	1543.5	1531.7	1534.7	1534.7	1533.8	1525.9	1525.3
52.5°	1708.1	1688.9	1667.3	1659.3	1654.7	1649.6	1635.8	1628.9
55°	1885.5	1856.4	1822.8	1802.1	1791.2	1777.2	1754.1	1747.8
57.5°	2092.8	2047.2	1989.1	1964.0	1939.5	1916.8	1891.0	1883.8
60°	2338.4	2271.5	2194.3	2147.6	2121.0	2099.1	2072.6	2071.3
62.5°	2612.2	2506.5	2419.2	2377.2	2357.8	2338.4	2313.1	2316.5
65°	2890.7	2780.3	2698.6	2664.5	2646.3	2630.3	2605.1	2608.9
67.5°	3165.3	3063.8	2974.1	2939.2	2919.0	2898.7	2876.0	2879.6
70°	3362.4	3236.6	3135.4	3057.9	3009.4	2954.6	2919.3	2910.5
72.5°	3306.0	3111.8	2951.3	2797.5	2707.4	2634.1	2584.5	2563.0
75°	2861.2	2595.8	2389.3	2200.7	2094.5	2008.2	1945.4	1906.3
77.5°	2124.9	1826.6	1582.6	1365.3	1193.4	1078.0	996.7	943.9
80°	1163.0	884.7	646.6	454.5	334.1	277.5	245.1	229.5
82.5°	362.2	233.7	172.2	148.7	138.2	132.3	122.6	107.0
85°	115.4	101.1	94.0	89.7	85.5	74.6	51.5	46.7
87.5°	44.6	46.0	45.5	42.9	43.7	31.6	25.3	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)