

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: P269210

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269210  
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: GLEON-AF-04-LED-E1-5WQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14477.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 129  
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

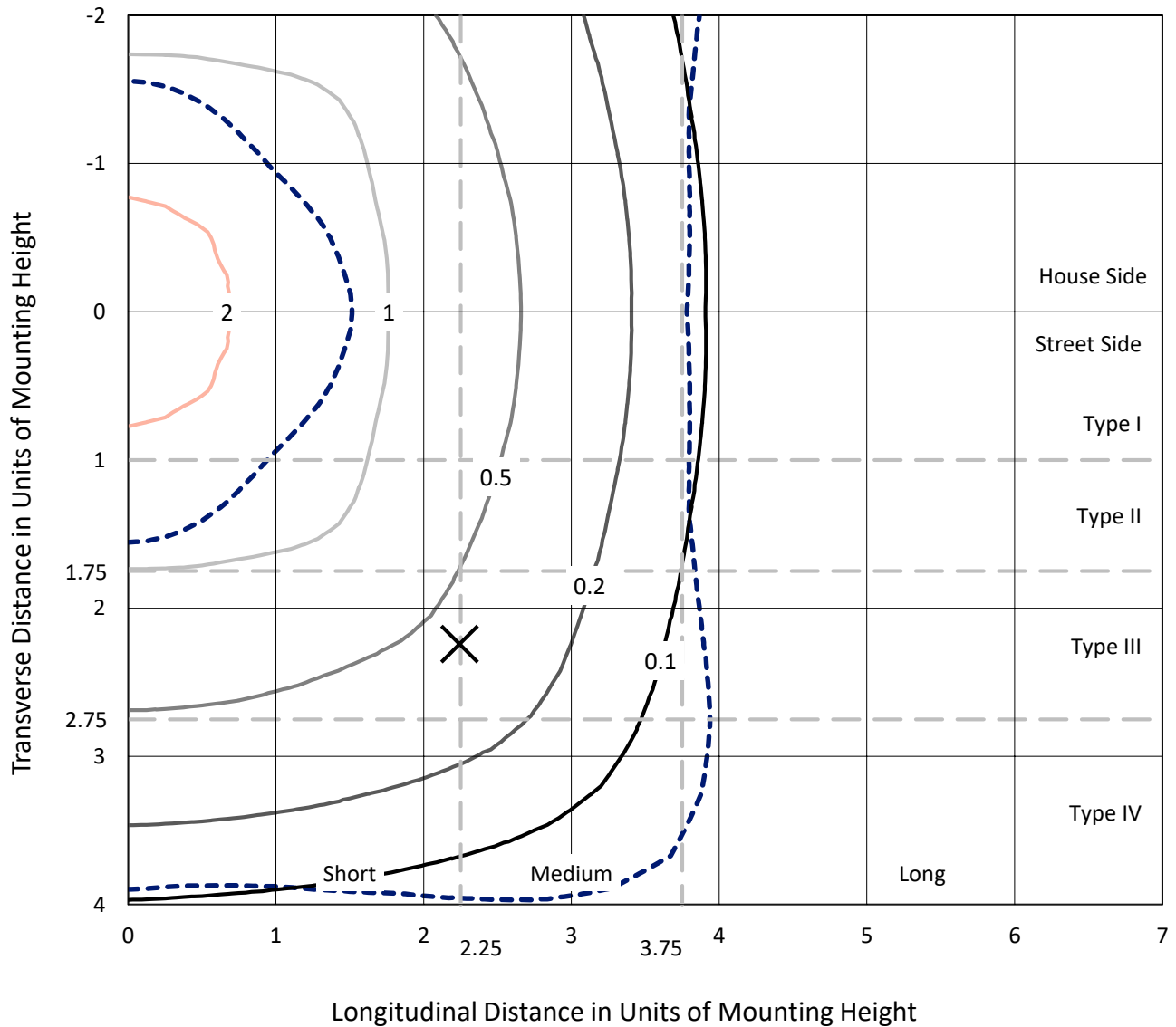


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

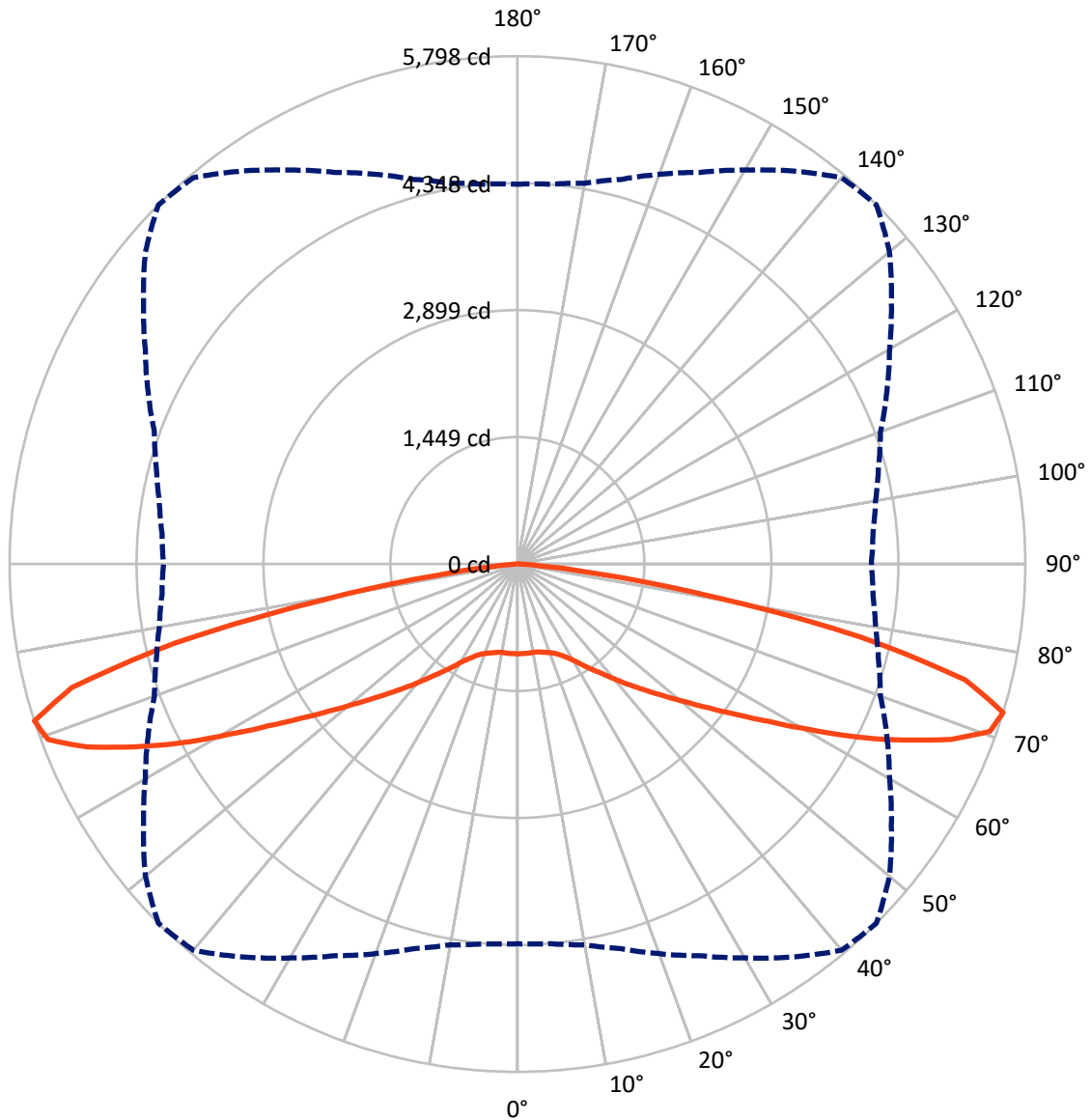


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Semi-Cutoff

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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	7238.9	0.0	7238.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7238.9	0.0	7238.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14477.8	0.0	14477.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	0.7
10°-20°	297.3	2.1
20°-30°	543.3	3.8
30°-40°	936.8	6.5
40°-50°	1601.5	11.1
50°-60°	2595.8	17.9
60°-70°	4306.4	29.7
70°-80°	3792.9	26.2
80°-90°	305.8	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°	14477.8	100.0
0°-180°	14477.8	100.0



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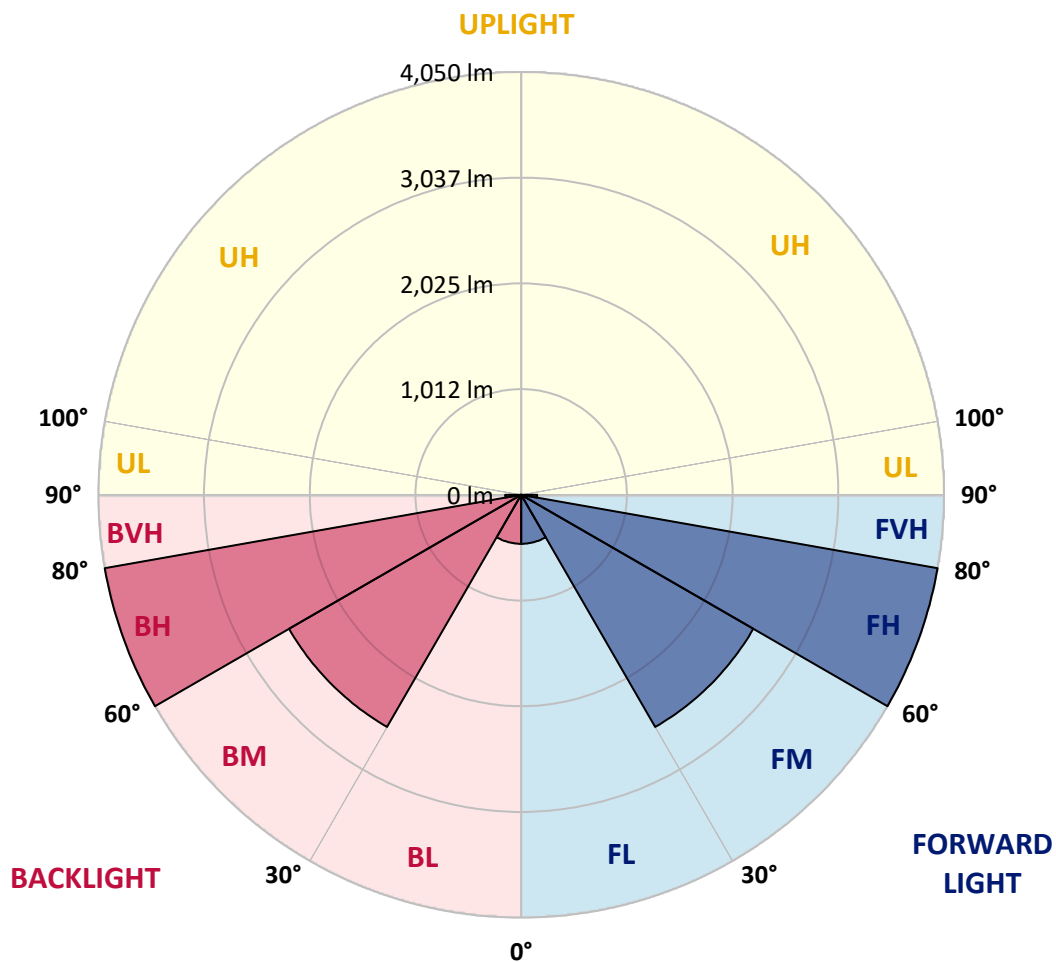
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.3	3.2			
FM (30°-60°)	2567.1	17.7			
FH (60°-80°)	4049.6	28.0			G2/5000
FVH (80°-90°)	152.9	1.1			G2/225
BL (0°-30°)	469.3	3.2	B1/500		
BM (30°-60°)	2567.1	17.7	B3/5000		
BH (60°-80°)	4049.6	28.0	B4/5000		G2/5000
BVH (80°-90°)	152.9	1.1			G2/225
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°	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2
2.5°	1025.2	1026.0	1026.7	1026.0	1026.0	1025.2	1024.5	1025.2	1024.5	1023.3	1023.9
5°	1028.6	1029.8	1029.8	1028.6	1029.3	1028.6	1027.2	1027.9	1026.7	1024.5	1024.5
7.5°	1032.5	1033.2	1033.2	1032.0	1032.5	1031.3	1029.8	1029.3	1027.9	1025.2	1023.3
10°	1038.5	1039.2	1038.5	1037.3	1037.3	1035.1	1032.0	1030.5	1027.9	1023.9	1021.9
12.5°	1045.2	1045.8	1045.2	1043.8	1043.2	1039.9	1037.3	1035.1	1033.2	1029.8	1026.7
15°	1054.5	1055.8	1054.5	1051.8	1049.8	1047.2	1045.8	1046.4	1047.2	1044.5	1041.1
17.5°	1071.8	1072.3	1070.4	1064.4	1061.7	1059.1	1059.1	1060.4	1062.4	1061.1	1057.8
20°	1103.6	1101.6	1097.0	1089.6	1086.3	1081.6	1081.0	1081.6	1081.6	1081.0	1078.3
22.5°	1143.5	1142.1	1136.1	1126.8	1122.3	1119.6	1115.5	1112.2	1111.7	1109.5	1106.9
25°	1191.2	1190.7	1183.2	1175.3	1172.0	1168.7	1165.5	1160.7	1156.7	1152.0	1149.4
27.5°	1252.3	1249.7	1239.1	1235.1	1230.5	1228.4	1223.9	1218.6	1215.1	1209.2	1205.9
30°	1319.4	1319.4	1310.7	1309.5	1309.5	1304.8	1299.5	1290.1	1284.2	1278.3	1276.2
32.5°	1386.4	1387.2	1378.4	1381.1	1383.2	1386.4	1387.8	1384.5	1380.5	1379.8	1375.8
35°	1483.5	1480.8	1472.1	1474.2	1473.5	1472.9	1472.9	1480.0	1481.5	1482.7	1474.7
37.5°	1603.7	1603.7	1595.0	1595.0	1591.0	1587.0	1581.7	1586.3	1593.7	1595.7	1590.3
40°	1741.1	1745.8	1735.0	1734.4	1735.7	1723.2	1717.2	1724.4	1729.1	1737.1	1731.2
42.5°	1903.1	1899.7	1889.1	1887.8	1880.5	1876.5	1871.2	1877.2	1884.6	1889.9	1891.8
45°	2058.5	2055.9	2043.9	2043.9	2036.5	2033.3	2035.9	2045.9	2049.2	2056.5	2063.8
47.5°	2211.8	2208.6	2200.6	2203.9	2204.6	2210.5	2219.2	2228.4	2237.8	2247.6	2251.1
50°	2368.7	2369.2	2360.7	2368.7	2378.5	2395.2	2418.3	2433.7	2452.9	2465.5	2469.5
52.5°	2511.3	2513.9	2523.2	2541.9	2561.7	2594.3	2634.2	2671.4	2703.3	2724.5	2723.1
55°	2682.7	2686.7	2709.2	2741.1	2773.6	2822.7	2881.9	2947.6	3000.7	3031.3	3012.0
57.5°	2901.7	2910.4	2935.7	2978.8	3027.3	3091.1	3172.1	3271.0	3353.4	3394.4	3363.3
60°	3202.5	3207.8	3238.5	3286.3	3344.7	3423.7	3532.0	3664.7	3781.0	3835.5	3799.6
62.5°	3599.0	3609.0	3633.6	3682.1	3741.8	3831.5	3963.6	4129.6	4274.3	4350.0	4269.0
65°	4072.5	4104.4	4124.9	4174.1	4229.8	4324.8	4462.9	4640.9	4796.3	4846.0	4752.5
67.5°	4541.3	4569.1	4605.0	4661.5	4717.9	4824.7	4953.0	5125.5	5296.2	5341.4	5195.9
70°	4746.5	4762.4	4818.1	4895.3	5003.4	5129.6	5277.7	5471.5	5682.8	5719.9	5535.4
72.5°	4335.4	4351.4	4413.8	4544.5	4733.2	4933.8	5192.1	5476.8	5755.8	5797.7	5543.4
75°	3279.0	3253.0	3345.4	3518.8	3773.1	4052.6	4413.8	4822.1	5225.3	5277.7	4974.3
77.5°	1694.7	1691.2	1760.9	1976.1	2279.5	2597.7	2995.4	3456.9	3851.4	4010.8	3763.7
80°	477.4	482.7	515.9	622.9	800.1	1029.8	1340.7	1773.0	2095.7	2260.3	2122.2
82.5°	187.2	201.8	214.4	234.4	257.6	291.5	389.1	579.0	776.9	928.3	760.3
85°	67.1	71.8	101.6	120.3	122.2	128.8	146.8	171.3	206.5	246.3	202.5
87.5°	25.2	27.8	32.6	53.8	53.1	48.5	59.1	61.8	46.5	42.5	52.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2	1025.2
2.5°	1022.6	1023.3	1023.3	1023.9	1024.5	1024.5	1026.0	1026.0
5°	1023.3	1023.3	1021.9	1022.6	1021.9	1021.9	1022.6	1022.6
7.5°	1021.9	1021.3	1019.9	1019.2	1018.0	1018.0	1018.0	1018.0
10°	1019.9	1019.2	1018.0	1017.3	1016.6	1016.6	1016.6	1016.6
12.5°	1025.2	1023.3	1021.9	1021.3	1021.3	1021.3	1021.3	1021.3
15°	1039.2	1034.6	1031.3	1031.3	1032.0	1033.2	1033.2	1034.6
17.5°	1056.4	1051.1	1047.9	1045.2	1046.4	1048.5	1049.8	1051.1
20°	1077.1	1074.5	1069.7	1067.0	1067.0	1069.7	1071.0	1071.8
22.5°	1105.6	1103.6	1101.6	1098.3	1098.3	1099.6	1102.3	1102.3
25°	1148.2	1146.7	1145.5	1142.9	1142.1	1142.1	1143.5	1144.8
27.5°	1201.3	1201.9	1200.6	1199.9	1197.9	1197.3	1199.2	1198.6
30°	1272.3	1275.7	1278.8	1276.2	1273.0	1270.9	1268.9	1266.3
32.5°	1368.6	1364.5	1361.9	1357.2	1351.3	1346.0	1342.0	1337.3
35°	1459.6	1452.9	1450.3	1454.3	1453.5	1450.3	1445.6	1441.6
37.5°	1571.0	1569.8	1571.0	1578.4	1577.1	1580.4	1571.0	1570.4
40°	1711.9	1713.2	1722.5	1731.2	1735.7	1740.3	1735.0	1729.7
42.5°	1875.2	1874.6	1877.8	1889.9	1897.8	1903.1	1891.8	1890.6
45°	2047.9	2043.3	2045.9	2055.9	2063.8	2069.8	2057.2	2057.2
47.5°	2237.8	2229.9	2221.1	2232.5	2237.0	2241.1	2231.1	2227.7
50°	2449.6	2433.0	2414.5	2419.0	2419.0	2417.7	2405.1	2404.5
52.5°	2692.6	2662.0	2628.3	2615.5	2608.3	2600.4	2578.4	2567.7
55°	2972.2	2926.4	2873.3	2840.7	2823.5	2801.5	2765.1	2755.0
57.5°	3298.8	3227.3	3135.5	3095.6	3057.2	3021.3	2980.8	2969.5
60°	3686.0	3580.5	3459.0	3385.3	3343.4	3308.8	3267.0	3265.0
62.5°	4117.7	3950.9	3813.6	3747.1	3716.6	3686.0	3646.2	3651.5
65°	4556.6	4382.7	4253.7	4199.9	4171.4	4146.1	4106.3	4112.4
67.5°	4989.5	4829.5	4688.1	4632.9	4600.9	4569.1	4533.2	4539.2
70°	5300.3	5101.7	4942.4	4820.1	4743.8	4657.5	4601.7	4587.7
72.5°	5211.2	4905.1	4652.1	4409.8	4267.7	4152.1	4073.9	4039.9
75°	4510.1	4091.7	3766.4	3468.9	3301.5	3165.4	3066.5	3004.7
77.5°	3349.3	2879.2	2494.8	2152.1	1881.2	1699.2	1571.0	1488.1
80°	1833.4	1394.4	1019.2	716.5	526.5	437.6	386.5	361.8
82.5°	571.1	368.6	271.6	234.4	217.7	208.4	193.2	168.6
85°	181.9	159.4	148.1	141.5	134.7	117.6	80.9	73.8
87.5°	70.3	72.4	71.8	67.7	69.1	49.8	39.9	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)