

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: P190881

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190881  
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-03-LED-E1-5WQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 15819.9 lumens  
Efficiency: N/A  
Efficacy: 127.6 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

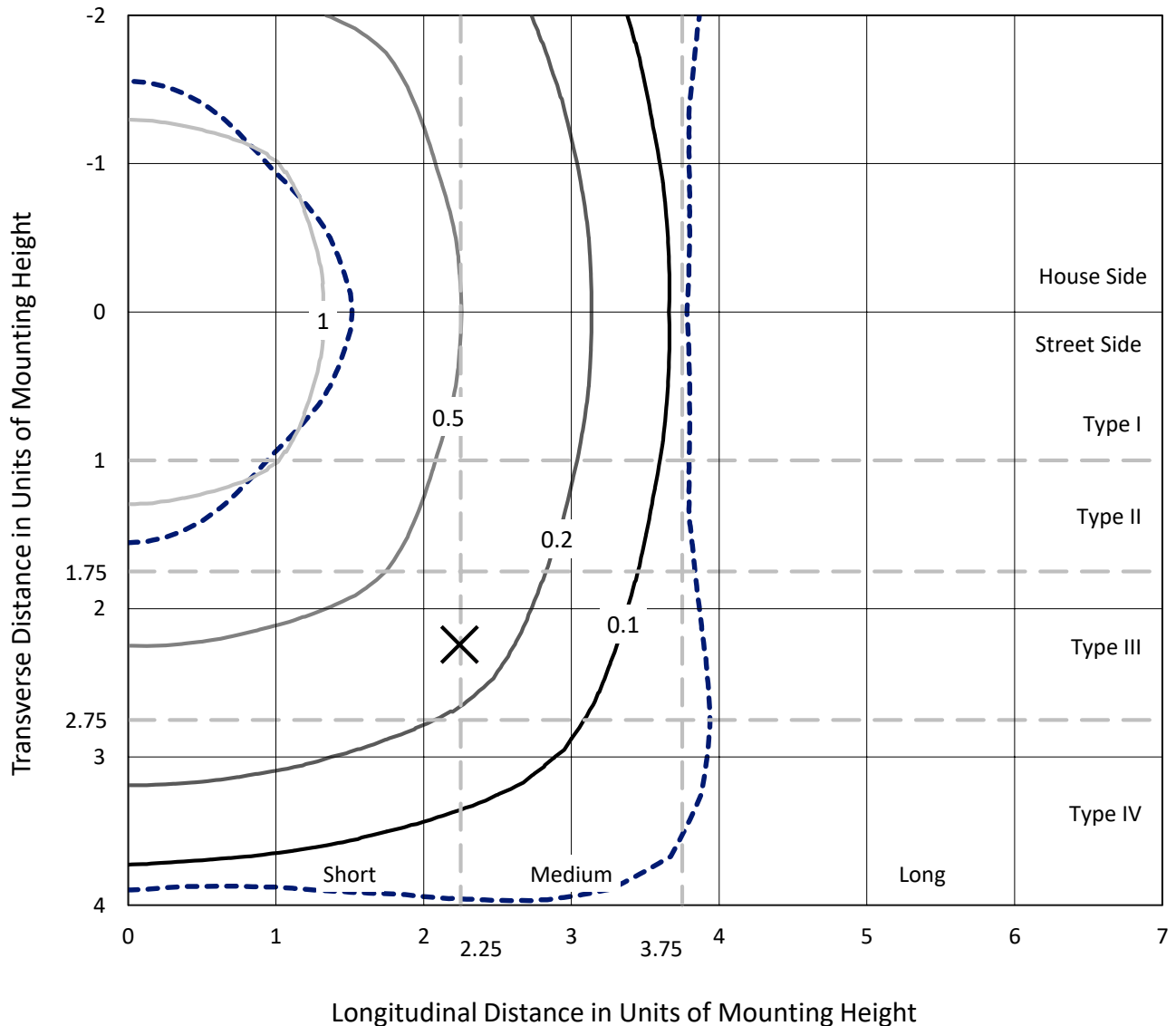
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P190881  
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

### Iso-Footcandle Lines of Horizontal Illumination

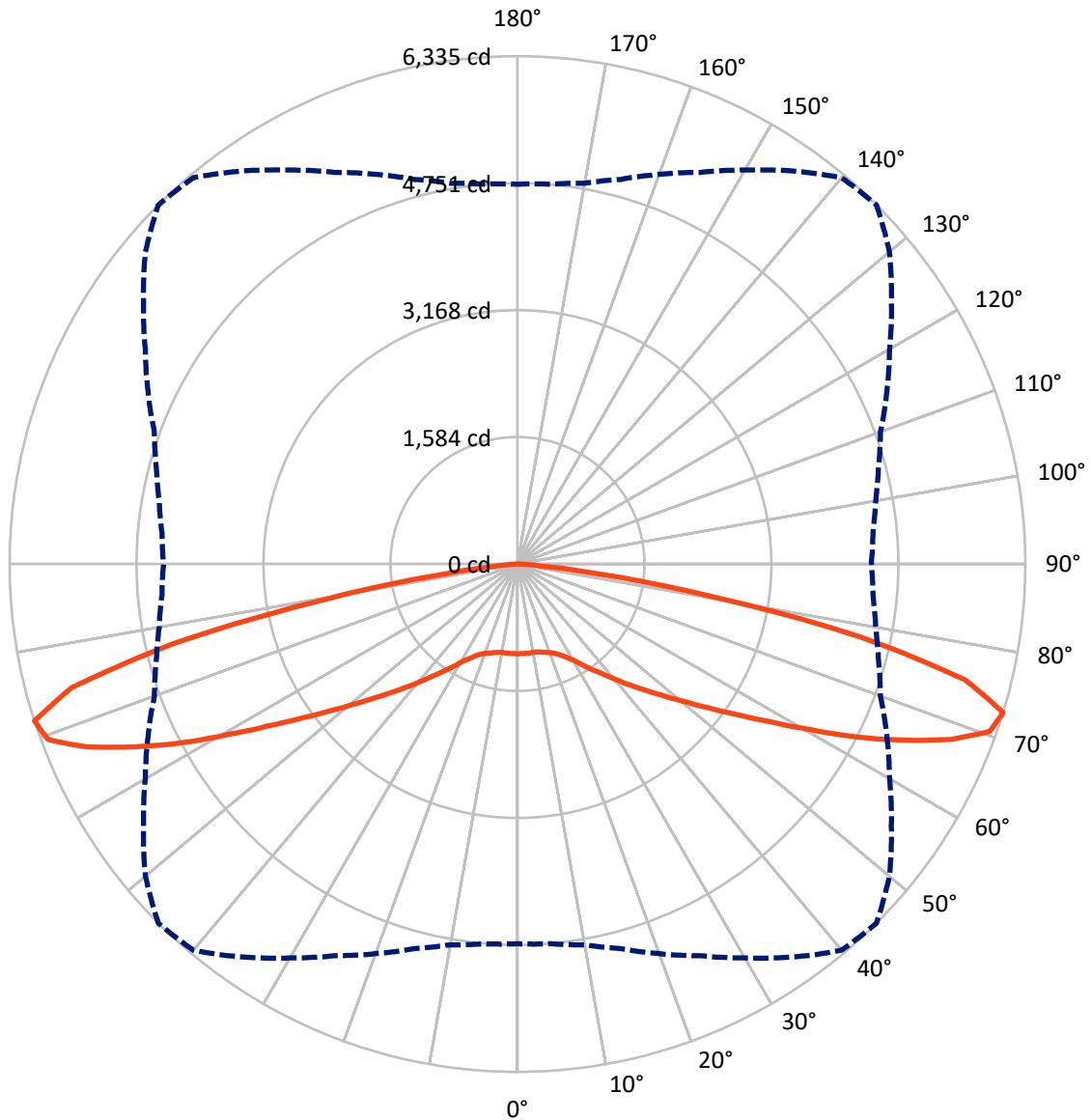
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P190881  
CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P190881

CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7910.0	0.0	7910.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7910.0	0.0	7910.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15819.9	0.0	15819.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	0.7
10°-20°	324.9	2.1
20°-30°	593.7	3.8
30°-40°	1023.7	6.5
40°-50°	1750.0	11.1
50°-60°	2836.5	17.9
60°-70°	4705.6	29.7
70°-80°	4144.5	26.2
80°-90°	334.2	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°	15819.9	100.0
0°-180°	15819.9	100.0



REPORT NUMBER: P190881

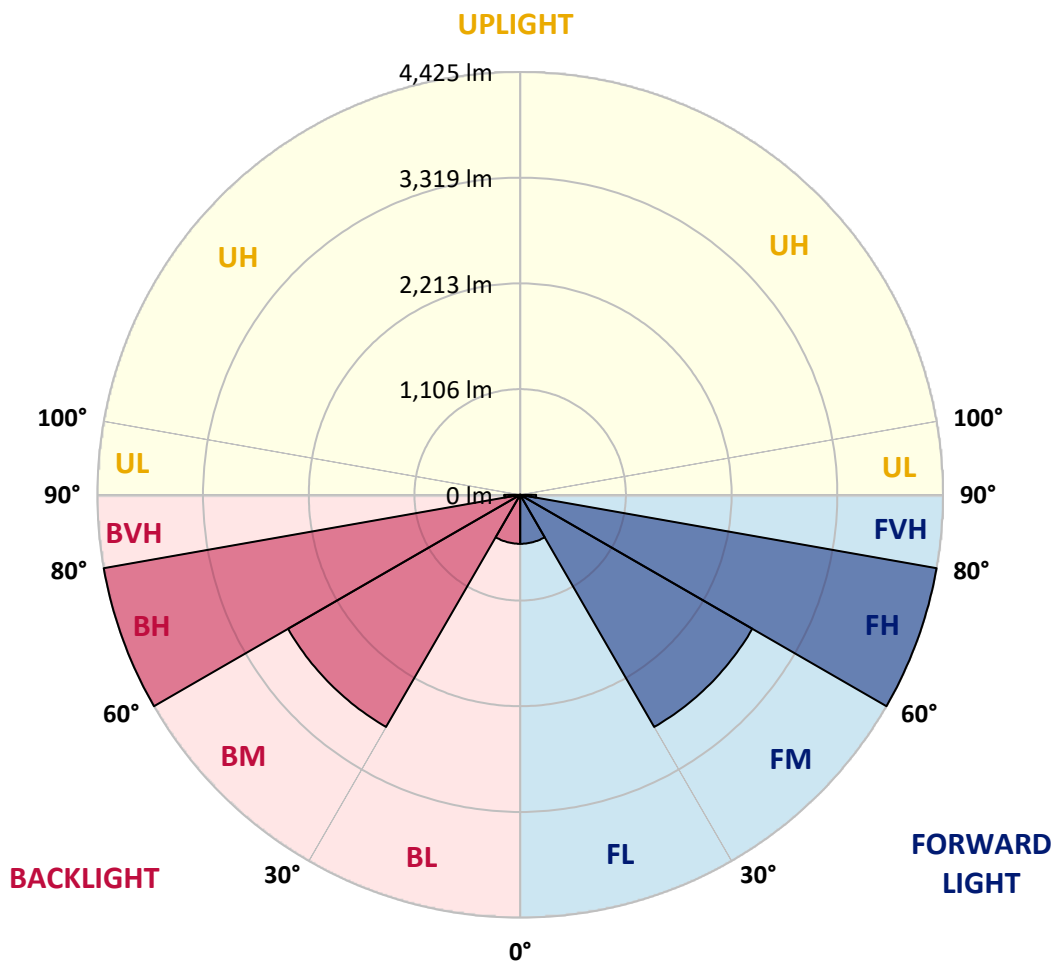
CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.8	3.2			
FM (30°-60°)	2805.0	17.7			
FH (60°-80°)	4425.0	28.0			G2/5000
FVH (80°-90°)	167.1	1.1			G2/225
BL (0°-30°)	512.8	3.2	B2/1000		
BM (30°-60°)	2805.0	17.7	B3/5000		
BH (60°-80°)	4425.0	28.0	B4/5000		G2/5000
BVH (80°-90°)	167.1	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





REPORT NUMBER: P190881  
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1120.3	1121.1	1121.8	1121.1	1121.1	1120.3	1119.6	1120.3	1119.6	1118.1	1118.8
5°	1123.9	1125.3	1125.3	1123.9	1124.6	1123.9	1122.5	1123.2	1121.8	1119.6	1119.6
7.5°	1128.3	1129.0	1129.0	1127.6	1128.3	1126.8	1125.3	1124.6	1123.2	1120.3	1118.1
10°	1134.8	1135.6	1134.8	1133.3	1133.3	1131.2	1127.6	1126.1	1123.2	1118.8	1116.7
12.5°	1142.0	1142.8	1142.0	1140.6	1139.9	1136.3	1133.3	1131.2	1129.0	1125.3	1121.8
15°	1152.3	1153.7	1152.3	1149.3	1147.1	1144.3	1142.8	1143.6	1144.3	1141.3	1137.7
17.5°	1171.1	1171.8	1169.6	1163.1	1160.2	1157.3	1157.3	1158.8	1160.9	1159.5	1155.8
20°	1206.0	1203.7	1198.7	1190.7	1187.0	1182.0	1181.2	1182.0	1182.0	1181.2	1178.3
22.5°	1249.4	1248.0	1241.5	1231.3	1226.2	1223.3	1218.9	1215.4	1214.7	1212.4	1209.5
25°	1301.7	1301.0	1293.0	1284.3	1280.6	1277.1	1273.4	1268.4	1264.0	1258.8	1256.0
27.5°	1368.4	1365.5	1354.0	1349.6	1344.5	1342.3	1337.2	1331.5	1327.8	1321.2	1317.7
30°	1441.7	1441.7	1432.3	1430.8	1430.8	1425.8	1420.0	1409.8	1403.3	1396.7	1394.6
32.5°	1515.0	1515.7	1506.3	1509.2	1511.4	1515.0	1516.4	1512.8	1508.4	1507.7	1503.4
35°	1621.0	1618.0	1608.6	1610.8	1610.0	1609.3	1609.3	1617.3	1618.8	1620.3	1611.6
37.5°	1752.3	1752.3	1742.8	1742.8	1738.5	1734.1	1728.4	1733.4	1741.4	1743.6	1737.8
40°	1902.5	1907.6	1895.9	1895.2	1896.7	1882.8	1876.4	1884.4	1889.4	1898.1	1891.6
42.5°	2079.6	2075.9	2064.3	2062.8	2054.8	2050.5	2044.7	2051.2	2059.2	2065.0	2067.2
45°	2249.3	2246.4	2233.3	2233.3	2225.3	2221.7	2224.6	2235.6	2239.1	2247.1	2255.1
47.5°	2416.9	2413.2	2404.5	2408.2	2408.9	2415.5	2424.9	2435.0	2445.2	2456.1	2459.7
50°	2588.2	2588.9	2579.5	2588.2	2599.0	2617.2	2642.6	2659.3	2680.3	2694.0	2698.4
52.5°	2744.2	2747.0	2757.2	2777.5	2799.3	2834.8	2878.4	2919.0	2953.9	2977.1	2975.6
55°	2931.4	2935.7	2960.4	2995.2	3030.8	3084.4	3149.1	3220.9	3278.9	3312.3	3291.2
57.5°	3170.7	3180.3	3207.8	3254.9	3307.9	3377.6	3466.1	3574.2	3664.2	3709.2	3675.1
60°	3499.5	3505.2	3538.7	3590.9	3654.8	3741.1	3859.4	4004.4	4131.5	4190.9	4151.7
62.5°	3932.6	3943.6	3970.4	4023.4	4088.6	4186.6	4331.0	4512.3	4670.6	4753.2	4664.8
65°	4449.9	4484.8	4507.3	4561.0	4622.0	4725.7	4876.6	5071.1	5240.9	5295.3	5193.0
67.5°	4962.2	4992.7	5031.9	5093.6	5155.3	5272.1	5412.1	5600.8	5787.2	5836.5	5677.7
70°	5186.5	5203.9	5264.8	5349.0	5467.3	5605.2	5766.9	5978.7	6209.5	6250.1	6048.4
72.5°	4737.3	4754.8	4822.9	4965.9	5171.9	5391.1	5673.3	5984.6	6289.3	6335.0	6057.2
75°	3582.9	3554.7	3655.5	3844.9	4122.8	4428.3	4822.9	5269.2	5709.6	5766.9	5435.3
77.5°	1851.6	1848.1	1924.3	2159.3	2490.9	2838.5	3273.1	3777.3	4208.4	4382.5	4112.6
80°	521.7	527.5	563.7	680.6	874.3	1125.3	1465.0	1937.3	2290.0	2469.9	2318.9
82.5°	204.6	220.5	234.4	256.1	281.5	318.5	425.2	632.7	848.9	1014.4	830.8
85°	73.2	78.4	111.0	131.3	133.5	140.8	160.4	187.2	225.7	269.2	221.3
87.5°	27.6	30.5	35.6	58.8	58.0	53.0	64.5	67.5	50.8	46.4	57.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190881  
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5WQ-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1117.4	1118.1	1118.1	1118.8	1119.6	1119.6	1121.1	1121.1
5°	1118.1	1118.1	1116.7	1117.4	1116.7	1116.7	1117.4	1117.4
7.5°	1116.7	1115.9	1114.5	1113.8	1112.4	1112.4	1112.4	1112.4
10°	1114.5	1113.8	1112.4	1111.6	1110.8	1110.8	1110.8	1110.8
12.5°	1120.3	1118.1	1116.7	1115.9	1115.9	1115.9	1115.9	1115.9
15°	1135.6	1130.5	1126.8	1126.8	1127.6	1129.0	1129.0	1130.5
17.5°	1154.4	1148.6	1145.0	1142.0	1143.6	1145.7	1147.1	1148.6
20°	1176.9	1174.0	1168.9	1166.0	1166.0	1168.9	1170.4	1171.1
22.5°	1208.1	1206.0	1203.7	1200.1	1200.1	1201.6	1204.4	1204.4
25°	1254.5	1253.1	1251.6	1248.7	1248.0	1248.0	1249.4	1250.9
27.5°	1312.5	1313.3	1311.8	1311.1	1309.0	1308.3	1310.4	1309.7
30°	1390.2	1393.9	1397.5	1394.6	1390.9	1388.8	1386.6	1383.6
32.5°	1495.5	1491.1	1488.2	1483.1	1476.5	1470.8	1466.4	1461.3
35°	1594.8	1587.6	1584.7	1589.1	1588.3	1584.7	1579.6	1575.2
37.5°	1716.7	1715.3	1716.7	1724.7	1723.3	1726.8	1716.7	1716.0
40°	1870.6	1872.0	1882.1	1891.6	1896.7	1901.8	1895.9	1890.1
42.5°	2049.1	2048.4	2051.9	2065.0	2073.7	2079.6	2067.2	2065.7
45°	2237.7	2232.6	2235.6	2246.4	2255.1	2261.6	2247.8	2247.8
47.5°	2445.2	2436.5	2427.1	2439.4	2444.4	2448.8	2438.0	2434.3
50°	2676.7	2658.5	2638.2	2643.3	2643.3	2641.9	2628.1	2627.3
52.5°	2942.2	2908.9	2871.8	2858.0	2850.0	2841.3	2817.4	2805.9
55°	3247.7	3197.6	3139.5	3104.0	3085.2	3061.2	3021.3	3010.4
57.5°	3604.7	3526.3	3426.2	3382.7	3340.5	3301.4	3257.2	3244.8
60°	4027.7	3912.4	3779.6	3699.0	3653.3	3615.6	3569.9	3567.6
62.5°	4499.3	4317.2	4167.0	4094.5	4061.1	4027.7	3984.2	3990.0
65°	4978.9	4788.8	4648.1	4589.3	4558.1	4530.5	4487.0	4493.5
67.5°	5452.0	5277.2	5122.6	5062.4	5027.6	4992.7	4953.5	4960.1
70°	5791.5	5574.7	5400.5	5267.0	5183.6	5089.2	5028.3	5013.1
72.5°	5694.4	5359.9	5083.5	4818.6	4663.3	4537.1	4451.5	4414.4
75°	4928.2	4471.0	4115.5	3790.4	3607.5	3458.8	3350.8	3283.3
77.5°	3659.8	3146.1	2726.0	2351.6	2055.6	1856.8	1716.7	1626.0
80°	2003.3	1523.7	1113.8	782.9	575.4	478.1	422.3	395.5
82.5°	624.0	402.7	296.8	256.1	238.0	227.8	211.1	184.3
85°	198.8	174.1	161.8	154.6	147.3	128.4	88.5	80.5
87.5°	76.9	79.1	78.4	74.0	75.5	54.4	43.6	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)