

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: P269123

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13400.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full 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

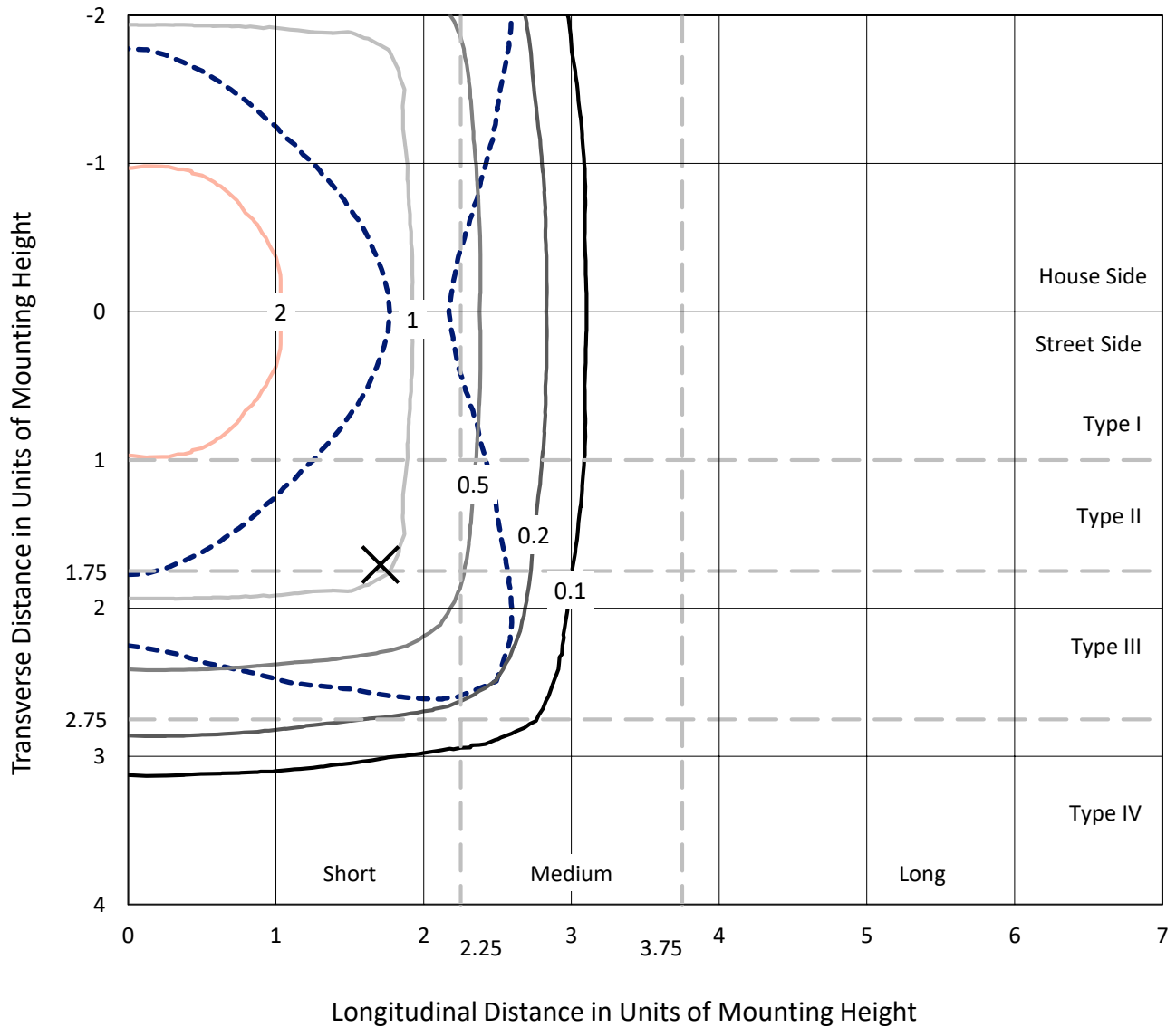


REPORT NUMBER: P269123

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

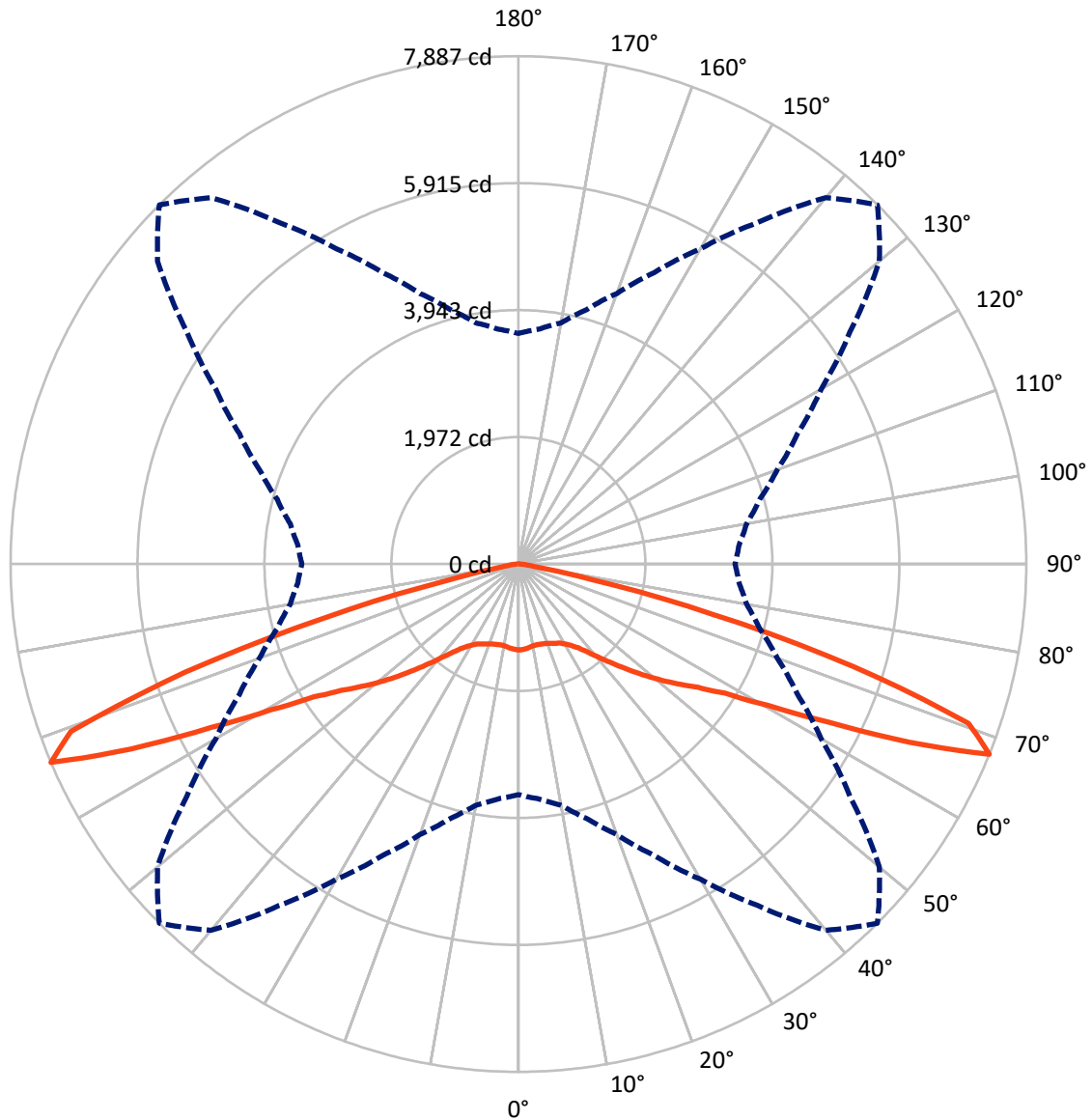
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P269123  
CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269123

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6700.1	0.0	6700.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6700.1	0.0	6700.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13400.2	0.0	13400.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	0.9
10°-20°	362.7	2.7
20°-30°	616.6	4.6
30°-40°	1007.9	7.5
40°-50°	1799.3	13.4
50°-60°	3033.6	22.6
60°-70°	4707.7	35.1
70°-80°	1654.1	12.3
80°-90°	93.5	0.7
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°	13400.2	100.0
0°-180°	13400.2	100.0



REPORT NUMBER: P269123

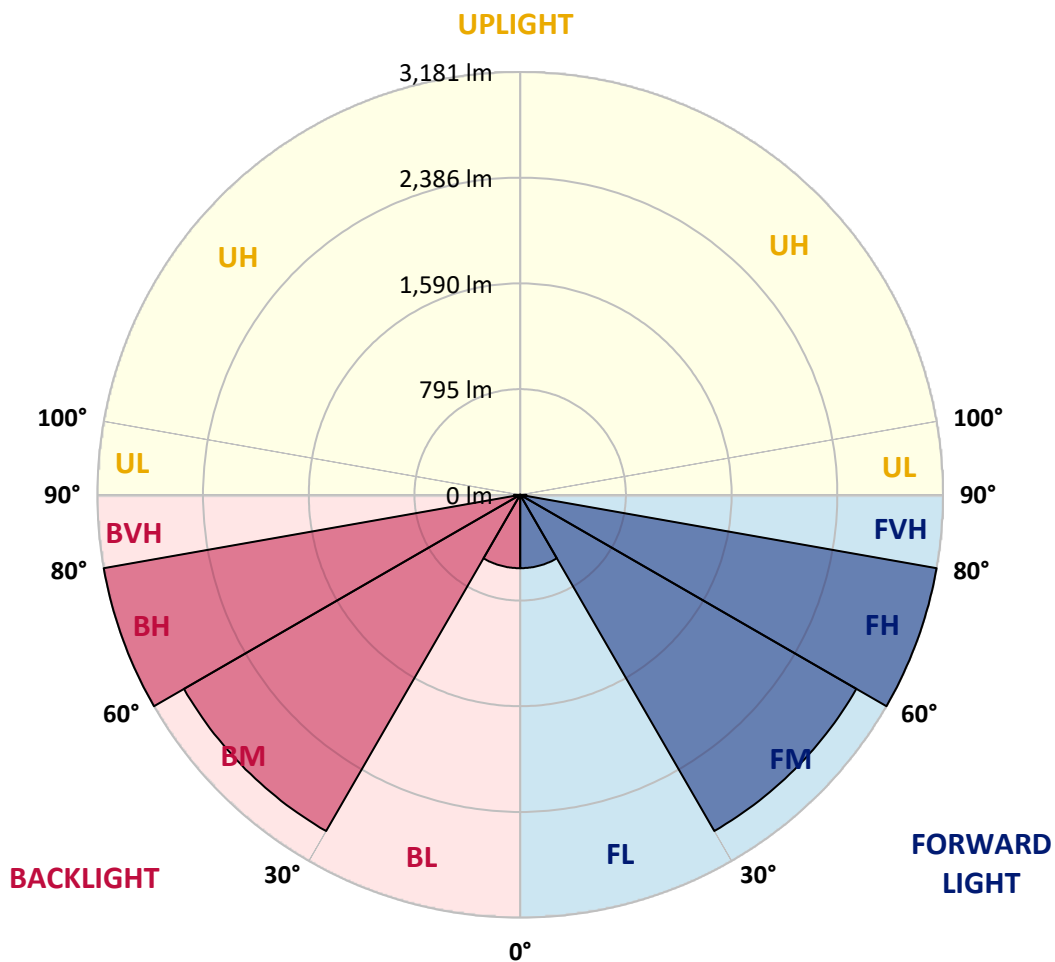
CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.1	4.1			
FM	(30°-60°)	2920.4	21.8			
FH	(60°-80°)	3180.9	23.7			G2/5000
FVH	(80°-90°)	46.7	0.3			G1/100
BL	(0°-30°)	552.1	4.1	B2/1000		
BM	(30°-60°)	2920.4	21.8	B3/5000		
BH	(60°-80°)	3180.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	46.7	0.3			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





REPORT NUMBER: P269123

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4
2.5°	1330.5	1331.6	1331.6	1331.6	1331.1	1331.1	1329.9	1331.1	1330.5	1328.7	1329.2
5°	1319.4	1320.6	1320.6	1320.0	1321.9	1321.1	1319.4	1320.6	1320.0	1318.7	1319.4
7.5°	1303.4	1305.1	1305.1	1304.6	1306.5	1305.7	1304.6	1305.1	1305.1	1303.4	1303.4
10°	1285.5	1286.7	1286.7	1286.1	1289.2	1289.2	1288.6	1290.3	1291.0	1289.2	1287.9
12.5°	1268.9	1270.7	1270.7	1273.2	1276.2	1277.5	1280.5	1283.0	1285.5	1284.8	1282.4
15°	1259.0	1260.2	1262.7	1265.7	1270.7	1275.0	1279.9	1285.5	1290.3	1291.7	1287.9
17.5°	1252.7	1254.7	1258.3	1262.7	1269.5	1276.9	1284.2	1291.7	1298.4	1300.8	1296.6
20°	1251.0	1252.1	1255.9	1263.2	1272.4	1283.6	1294.1	1302.7	1312.0	1315.1	1312.0
22.5°	1254.7	1257.1	1261.4	1270.1	1282.4	1296.6	1308.9	1320.6	1332.2	1337.8	1333.5
25°	1271.3	1273.7	1279.2	1290.3	1304.0	1318.7	1332.9	1346.5	1357.0	1362.5	1359.5
27.5°	1302.2	1305.1	1312.0	1323.1	1337.8	1353.8	1369.2	1380.3	1389.0	1390.8	1387.2
30°	1348.4	1355.2	1363.1	1375.5	1392.7	1406.2	1421.7	1431.4	1442.0	1442.0	1438.9
32.5°	1420.4	1427.1	1435.9	1447.6	1461.2	1475.8	1489.4	1498.1	1509.2	1509.8	1502.3
35°	1528.2	1531.3	1538.7	1546.2	1558.5	1571.5	1583.2	1588.7	1597.8	1598.5	1591.7
37.5°	1670.6	1671.2	1676.1	1678.7	1689.7	1703.8	1715.0	1718.6	1727.4	1726.1	1719.3
40°	1836.3	1839.5	1841.3	1844.9	1856.7	1870.4	1881.9	1883.8	1893.1	1891.2	1882.6
42.5°	2028.1	2029.4	2039.7	2045.4	2056.4	2063.1	2078.0	2079.8	2090.8	2086.0	2076.2
45°	2243.1	2254.1	2264.1	2275.1	2286.8	2294.9	2306.6	2304.2	2311.5	2304.2	2298.6
47.5°	2469.3	2477.3	2499.4	2516.7	2535.8	2542.7	2559.2	2551.8	2559.2	2548.8	2547.0
50°	2718.2	2732.4	2751.5	2771.2	2791.6	2802.6	2824.2	2815.0	2824.8	2815.0	2809.4
52.5°	2963.5	2967.2	3009.1	3038.1	3066.4	3079.3	3092.2	3088.0	3088.6	3088.0	3082.4
55°	3196.3	3205.1	3247.0	3286.4	3335.6	3372.1	3394.2	3391.8	3386.3	3380.7	3371.3
57.5°	3459.0	3467.5	3515.6	3564.4	3620.3	3672.1	3717.1	3763.4	3781.2	3786.1	3765.9
60°	3813.8	3813.2	3877.4	3936.6	4016.6	4093.7	4192.3	4292.7	4408.0	4461.5	4390.6
62.5°	4175.1	4189.8	4282.2	4387.1	4552.2	4713.0	4894.8	5073.4	5255.9	5404.5	5246.6
65°	4131.8	4188.5	4326.0	4563.2	4868.3	5230.7	5622.5	6037.2	6411.9	6669.6	6380.5
67.5°	3581.0	3661.8	3801.5	4090.0	4471.5	4993.9	5652.1	6472.3	7425.6	7886.6	7315.3
70°	2595.7	2686.8	2833.4	3115.1	3492.8	3989.6	4704.3	5689.1	6951.2	7415.8	6786.6
72.5°	1291.7	1340.9	1431.4	1610.8	1896.9	2299.8	2948.1	3894.6	5011.3	5437.7	4862.7
75°	438.7	461.5	477.0	535.5	626.1	784.5	1106.7	1702.6	2597.4	3113.9	2560.4
77.5°	253.3	254.0	264.5	274.8	290.2	307.5	350.7	460.3	796.2	1130.7	823.9
80°	163.9	163.3	171.9	179.9	190.4	199.1	201.5	213.2	245.9	291.5	260.7
82.5°	85.0	95.5	114.7	125.1	144.7	148.5	143.5	139.2	147.3	152.8	156.6
85°	46.8	40.7	61.1	79.0	87.6	88.8	88.8	83.8	86.9	85.0	92.4
87.5°	21.6	19.8	24.1	38.8	41.3	35.2	37.0	32.7	23.4	22.7	26.0
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: P269123

CATALOG NUMBER: GLEON-AF-03-LED-E1-5MQ-7027-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4	1335.4
2.5°	1329.2	1329.9	1329.9	1331.6	1332.2	1333.5	1334.8	1335.4
5°	1318.7	1320.6	1319.4	1321.1	1321.1	1322.5	1322.5	1323.1
7.5°	1303.4	1305.1	1305.1	1305.1	1304.6	1306.5	1306.5	1306.5
10°	1287.4	1288.6	1287.9	1286.7	1285.5	1287.4	1286.7	1286.1
12.5°	1282.4	1279.2	1276.9	1275.7	1273.2	1273.7	1271.9	1271.9
15°	1285.5	1279.9	1275.7	1273.7	1271.3	1270.1	1268.9	1269.5
17.5°	1293.5	1286.7	1281.2	1278.1	1275.0	1273.2	1270.7	1271.3
20°	1307.7	1299.7	1291.7	1285.5	1279.9	1276.9	1275.0	1274.3
22.5°	1328.7	1316.8	1305.1	1296.0	1288.6	1284.2	1282.4	1281.2
25°	1352.7	1339.7	1326.2	1315.7	1308.3	1302.7	1298.9	1298.9
27.5°	1382.9	1372.4	1360.0	1347.6	1340.9	1335.4	1332.9	1331.6
30°	1433.3	1423.5	1413.7	1402.0	1393.4	1387.7	1383.5	1379.7
32.5°	1498.1	1490.1	1482.1	1473.4	1465.5	1457.9	1451.2	1448.2
35°	1589.3	1583.2	1577.6	1567.7	1564.6	1560.3	1556.7	1553.4
37.5°	1715.0	1712.4	1712.4	1702.1	1699.6	1697.7	1694.1	1694.7
40°	1880.2	1882.6	1879.6	1875.8	1874.0	1869.1	1869.1	1873.3
42.5°	2075.4	2077.3	2084.1	2078.0	2084.7	2078.6	2074.8	2078.0
45°	2302.3	2309.1	2322.6	2316.4	2320.7	2310.4	2297.3	2298.0
47.5°	2556.8	2563.0	2568.4	2564.1	2564.8	2547.6	2530.3	2525.9
50°	2821.1	2823.6	2826.6	2820.5	2821.8	2802.6	2782.9	2783.6
52.5°	3082.4	3094.1	3106.5	3089.8	3086.0	3064.6	3036.8	3025.8
55°	3381.3	3397.8	3383.7	3354.8	3325.9	3296.9	3260.5	3254.3
57.5°	3749.7	3721.5	3677.1	3622.2	3582.3	3541.5	3504.6	3489.1
60°	4262.5	4155.9	4075.8	3994.5	3943.3	3893.3	3844.7	3837.3
62.5°	4987.2	4803.0	4643.2	4475.0	4337.6	4230.5	4144.8	4120.7
65°	5895.5	5459.9	5082.2	4729.5	4423.3	4192.3	4046.9	3982.7
67.5°	6286.2	5425.9	4778.3	4277.9	3877.4	3597.6	3440.5	3362.1
70°	5523.9	4499.8	3795.3	3294.4	2929.6	2631.3	2488.9	2405.1
72.5°	3800.3	2862.4	2263.4	1847.5	1556.0	1306.5	1207.9	1200.5
75°	1706.4	1130.2	778.9	600.2	505.2	439.5	419.0	403.7
77.5°	477.5	353.2	314.9	294.6	274.8	252.1	243.4	245.2
80°	232.3	219.4	210.7	197.7	179.9	160.8	152.3	155.9
82.5°	154.1	152.3	157.7	148.5	122.6	104.2	87.6	80.0
85°	93.7	95.0	96.7	97.3	82.6	57.9	39.4	44.3
87.5°	37.0	42.5	46.3	48.1	44.9	27.8	22.2	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)