

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: P269064

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-RW-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11865.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

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

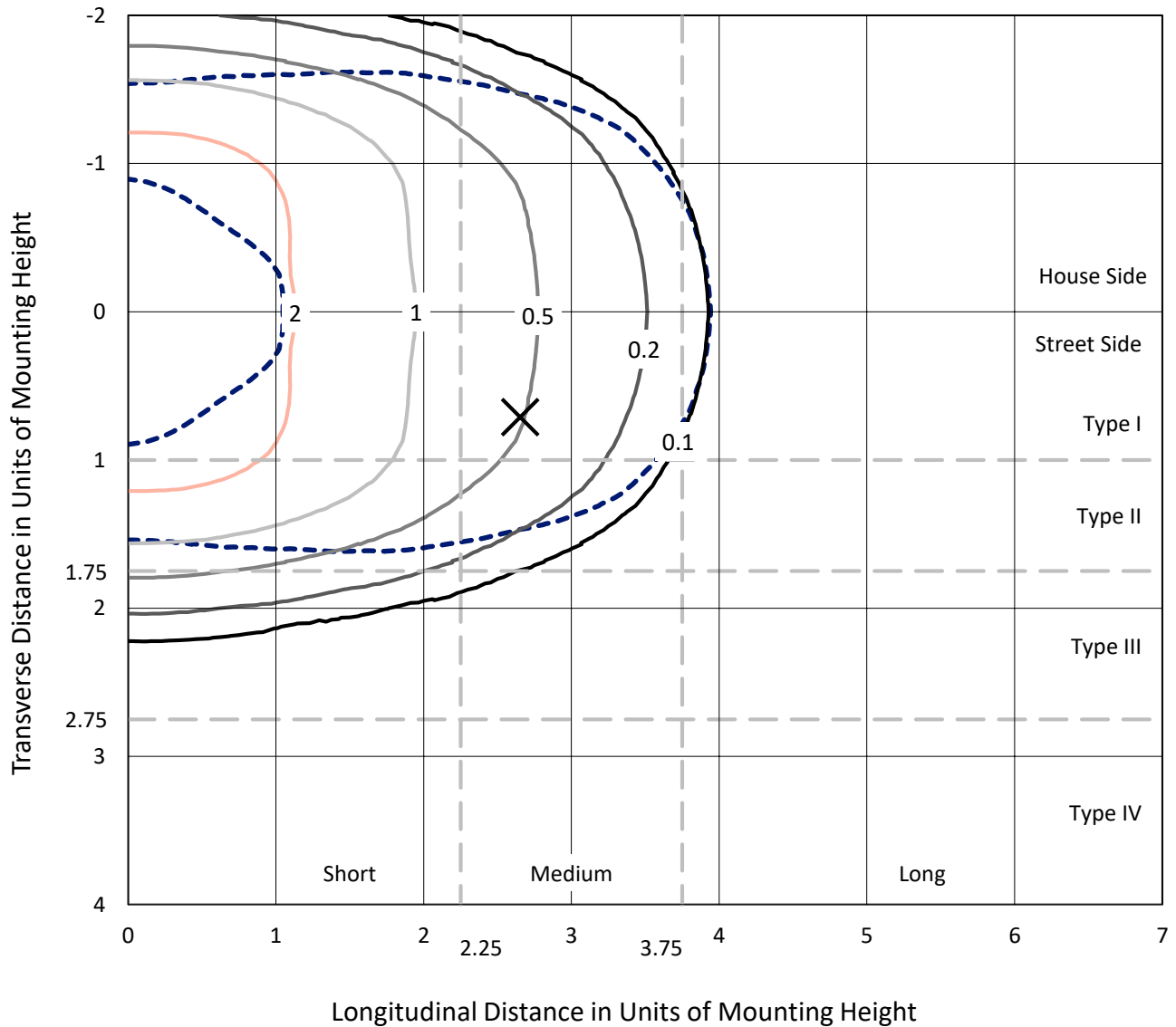


REPORT NUMBER: P269064

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

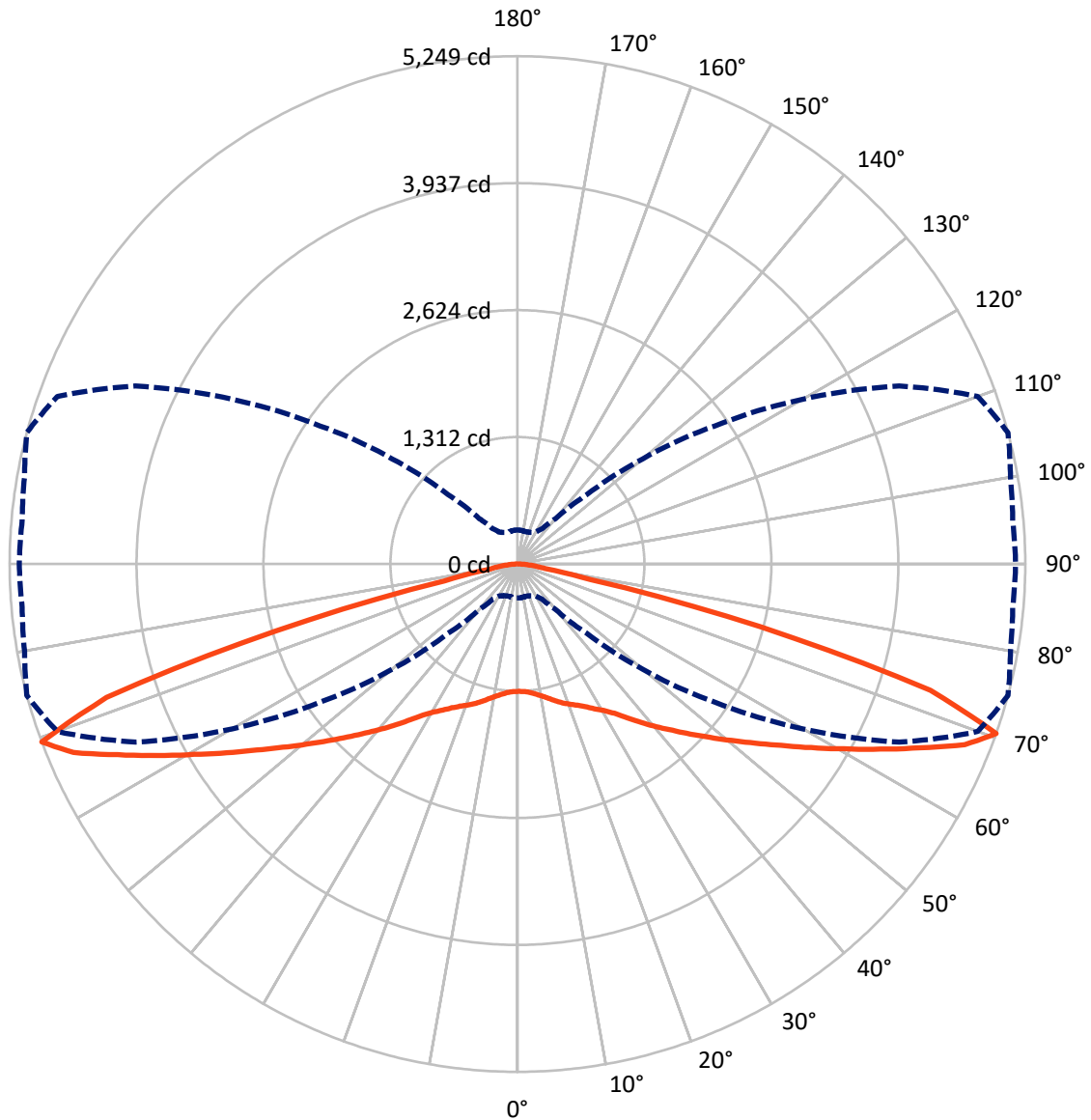


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269064

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P269064

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5932.6	0.0	5932.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5932.6	0.0	5932.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	11865.2	0.0	11865.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.1
10°-20°	392.2	3.3
20°-30°	738.2	6.2
30°-40°	1307.2	11.0
40°-50°	2186.0	18.4
50°-60°	3046.2	25.7
60°-70°	2824.9	23.8
70°-80°	1125.8	9.5
80°-90°	118.3	1.0
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°	11865.2	100.0
0°-180°	11865.2	100.0



REPORT NUMBER: P269064

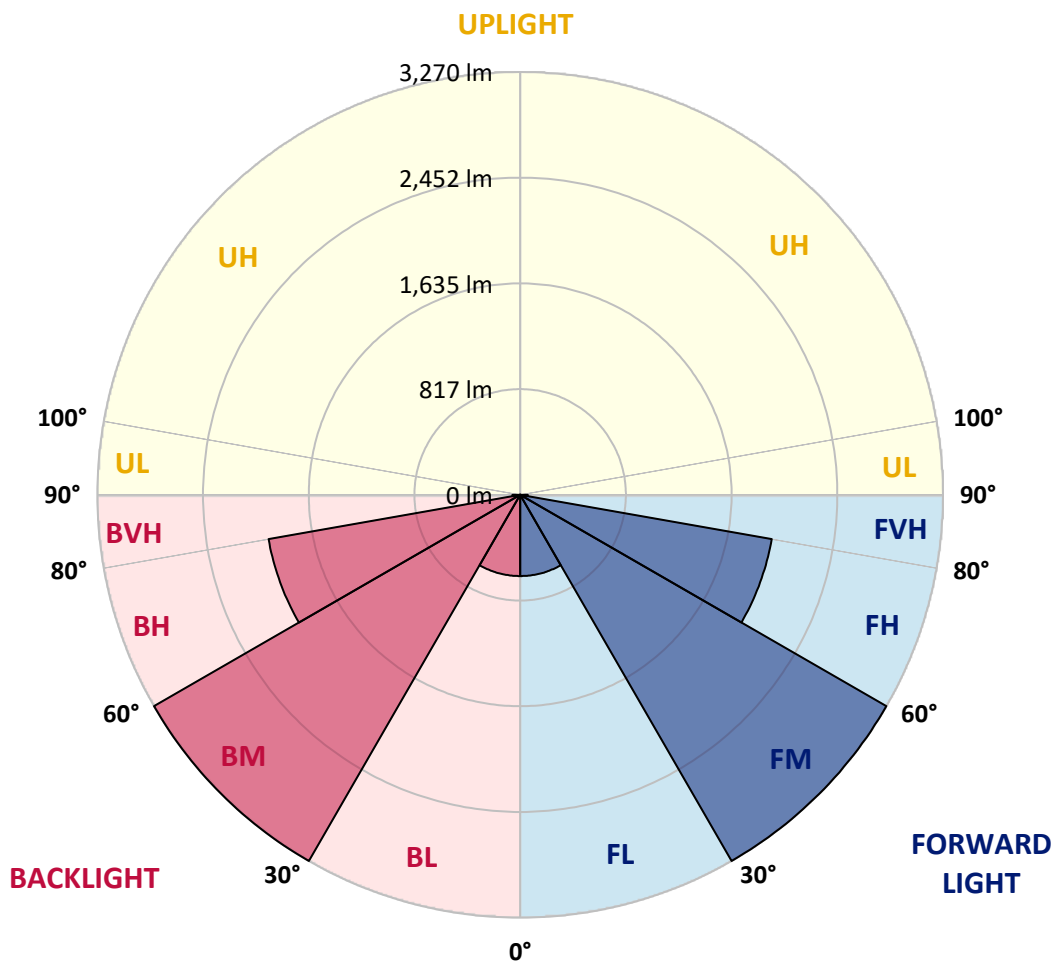
CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.3	5.3			
FM	(30°-60°)	3269.7	27.6			
FH	(60°-80°)	1975.4	16.6			G2/5000
FVH	(80°-90°)	59.2	0.5			G1/100
BL	(0°-30°)	628.3	5.3	B2/1000		
BM	(30°-60°)	3269.7	27.6	B3/5000		
BH	(60°-80°)	1975.4	16.6	B3/2500		G3/2500
BVH	(80°-90°)	59.2	0.5			G1/100
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 Medium





REPORT NUMBER: P269064

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1314.0	1312.8	1314.0	1313.3	1314.4	1314.4	1315.6	1317.9	1317.9	1319.5	1318.9
5°	1300.9	1300.4	1302.2	1303.8	1305.4	1308.8	1312.2	1317.3	1321.1	1324.0	1326.7
7.5°	1275.8	1275.8	1278.0	1281.9	1285.8	1293.1	1300.9	1311.0	1321.1	1329.6	1336.9
10°	1255.0	1256.1	1259.0	1265.6	1272.4	1283.6	1294.3	1308.8	1322.8	1336.9	1348.0
12.5°	1242.6	1244.3	1249.5	1259.5	1270.7	1285.8	1302.2	1320.6	1336.3	1353.1	1364.3
15°	1246.6	1247.7	1255.0	1267.2	1281.9	1300.9	1322.8	1344.8	1363.2	1381.1	1396.3
17.5°	1268.4	1270.2	1278.6	1292.7	1307.8	1330.1	1353.7	1378.4	1401.4	1421.6	1440.1
20°	1307.8	1309.4	1320.1	1335.2	1353.1	1376.2	1399.6	1425.5	1451.2	1472.6	1493.3
22.5°	1363.2	1366.1	1376.2	1391.2	1411.4	1436.1	1464.1	1491.6	1516.2	1535.9	1554.4
25°	1436.1	1442.3	1451.8	1468.6	1490.0	1512.3	1542.7	1570.6	1594.2	1612.7	1626.2
27.5°	1539.2	1547.7	1555.0	1571.2	1592.1	1613.4	1643.5	1668.3	1690.7	1708.7	1718.7
30°	1676.1	1684.5	1691.9	1707.6	1726.6	1746.8	1775.4	1797.2	1811.3	1825.3	1824.7
32.5°	1842.2	1851.0	1853.9	1870.7	1890.4	1912.2	1938.1	1950.3	1961.5	1963.2	1953.2
35°	2027.7	2032.2	2043.5	2065.8	2088.3	2106.3	2130.9	2137.1	2137.1	2128.7	2106.3
37.5°	2231.3	2234.1	2249.7	2275.0	2298.0	2316.5	2333.3	2345.7	2339.5	2321.6	2284.0
40°	2454.4	2459.5	2481.9	2504.4	2530.2	2547.6	2565.5	2567.7	2561.5	2535.2	2484.3
42.5°	2667.5	2672.1	2694.5	2729.8	2763.5	2787.6	2804.4	2807.7	2788.1	2764.1	2700.7
45°	2851.0	2862.7	2891.9	2933.3	2982.2	3016.4	3039.3	3048.8	3031.5	3000.1	2926.7
47.5°	2996.1	3008.0	3049.4	3098.9	3159.3	3214.9	3253.0	3273.2	3268.8	3245.1	3165.0
50°	3102.7	3114.0	3158.8	3219.3	3290.0	3359.0	3424.0	3472.3	3489.0	3478.4	3404.9
52.5°	3115.1	3133.6	3186.3	3267.6	3359.5	3453.8	3546.2	3628.2	3683.7	3692.0	3637.6
55°	2942.8	2961.4	3034.4	3154.8	3291.7	3445.4	3593.4	3731.3	3840.8	3896.8	3868.2
57.5°	2537.0	2570.1	2646.9	2788.1	2989.5	3219.3	3455.4	3700.5	3923.1	4071.7	4100.4
60°	1944.2	1983.5	2060.8	2211.1	2435.5	2709.6	3024.8	3387.0	3780.2	4114.3	4314.0
62.5°	1247.1	1284.1	1365.5	1496.1	1678.9	1976.1	2314.3	2744.4	3272.6	3800.3	4275.8
65°	640.9	661.2	703.7	782.9	925.3	1147.3	1450.8	1879.8	2483.6	3134.6	3822.2
67.5°	406.0	409.9	419.5	430.6	467.1	544.0	685.2	952.7	1449.5	2128.7	2933.3
70°	351.1	351.1	346.6	344.9	349.4	360.0	381.9	444.1	611.7	1010.6	1691.9
72.5°	321.4	318.0	310.2	303.9	302.8	302.8	307.3	316.8	343.7	411.7	662.3
75°	296.1	286.6	275.9	268.7	265.8	263.1	262.5	264.1	269.8	280.5	316.3
77.5°	265.2	253.0	240.6	233.3	230.0	226.1	222.6	218.6	216.0	219.2	234.9
80°	228.2	214.2	204.6	200.2	196.8	191.2	184.0	177.1	171.0	169.9	179.4
82.5°	184.0	167.7	168.3	169.9	163.8	155.9	148.0	140.8	130.2	124.4	130.2
85°	148.6	140.1	136.3	147.0	138.0	126.2	113.8	100.9	84.1	70.6	76.8
87.5°	57.8	57.8	86.3	132.9	119.5	97.6	83.5	71.2	44.2	34.2	34.8
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: P269064

CATALOG NUMBER: GLEON-AF-02-LED-E1-RW-7027-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1318.4	1319.5	1318.9	1318.4	1318.4	1317.9	1318.4	1318.4
5°	1328.5	1331.3	1331.3	1332.4	1332.4	1332.9	1333.5	1332.9
7.5°	1343.5	1348.6	1351.9	1355.9	1356.5	1357.1	1358.1	1357.1
10°	1358.7	1368.8	1376.2	1383.4	1386.8	1387.9	1389.0	1389.0
12.5°	1377.8	1391.8	1404.7	1417.6	1423.9	1427.1	1427.1	1429.5
15°	1409.3	1423.3	1438.4	1455.8	1466.5	1472.1	1473.7	1473.7
17.5°	1453.5	1465.9	1478.7	1495.6	1509.1	1516.2	1518.0	1517.4
20°	1505.1	1516.9	1524.2	1534.8	1546.6	1555.0	1557.2	1557.2
22.5°	1563.9	1570.6	1571.9	1575.2	1584.7	1596.0	1601.0	1602.0
25°	1629.0	1630.8	1626.2	1626.2	1632.4	1643.0	1648.1	1648.7
27.5°	1713.2	1704.8	1693.6	1689.6	1693.6	1705.8	1712.0	1714.2
30°	1818.0	1797.8	1772.0	1758.1	1755.7	1772.0	1783.2	1784.9
32.5°	1938.1	1908.9	1874.7	1846.0	1838.7	1848.8	1862.2	1861.7
35°	2080.5	2045.7	2004.2	1967.7	1950.8	1961.0	1980.0	1982.3
37.5°	2244.8	2199.3	2151.7	2105.6	2079.3	2082.1	2102.4	2109.0
40°	2428.1	2369.2	2309.3	2247.6	2210.0	2202.7	2227.3	2231.3
42.5°	2624.4	2548.8	2472.9	2396.7	2348.4	2337.3	2365.9	2364.2
45°	2833.6	2737.0	2648.6	2564.4	2507.2	2490.5	2513.8	2513.8
47.5°	3058.4	2939.6	2834.2	2738.8	2676.5	2652.4	2674.9	2676.5
50°	3296.8	3170.6	3046.6	2940.6	2866.1	2835.2	2864.3	2868.8
52.5°	3533.9	3411.1	3286.1	3165.0	3074.7	3037.1	3070.8	3085.4
55°	3774.5	3653.9	3534.6	3416.2	3309.0	3264.8	3300.6	3319.1
57.5°	4028.5	3917.0	3803.2	3683.7	3580.6	3511.6	3549.7	3574.4
60°	4326.2	4230.9	4112.7	3980.8	3876.5	3806.5	3828.3	3850.2
62.5°	4561.9	4598.9	4498.4	4345.9	4212.0	4122.2	4143.5	4166.5
65°	4448.0	4827.6	4916.9	4762.6	4577.0	4437.4	4428.4	4440.1
67.5°	3717.8	4455.4	4993.0	5140.0	4984.6	4790.7	4754.8	4772.2
70°	2487.0	3405.6	4354.4	5061.0	5248.7	5173.6	5138.3	5148.9
72.5°	1194.4	1983.5	2954.2	3893.4	4465.4	4727.8	4812.0	4852.9
75°	436.8	787.4	1423.9	2145.5	2590.3	2998.5	3264.8	3373.6
77.5°	263.6	318.0	454.8	684.7	775.5	868.0	832.2	850.2
80°	195.1	220.4	249.5	280.5	290.5	290.5	279.3	270.3
82.5°	136.8	153.2	167.2	184.0	188.5	180.0	148.0	117.8
85°	88.0	95.3	101.5	112.2	109.4	104.4	70.1	62.3
87.5°	40.3	46.1	48.1	53.3	51.1	48.8	34.8	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)