

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: P193560

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193560
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11144 lumens
Efficiency: N/A
Efficacy: 86.4 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

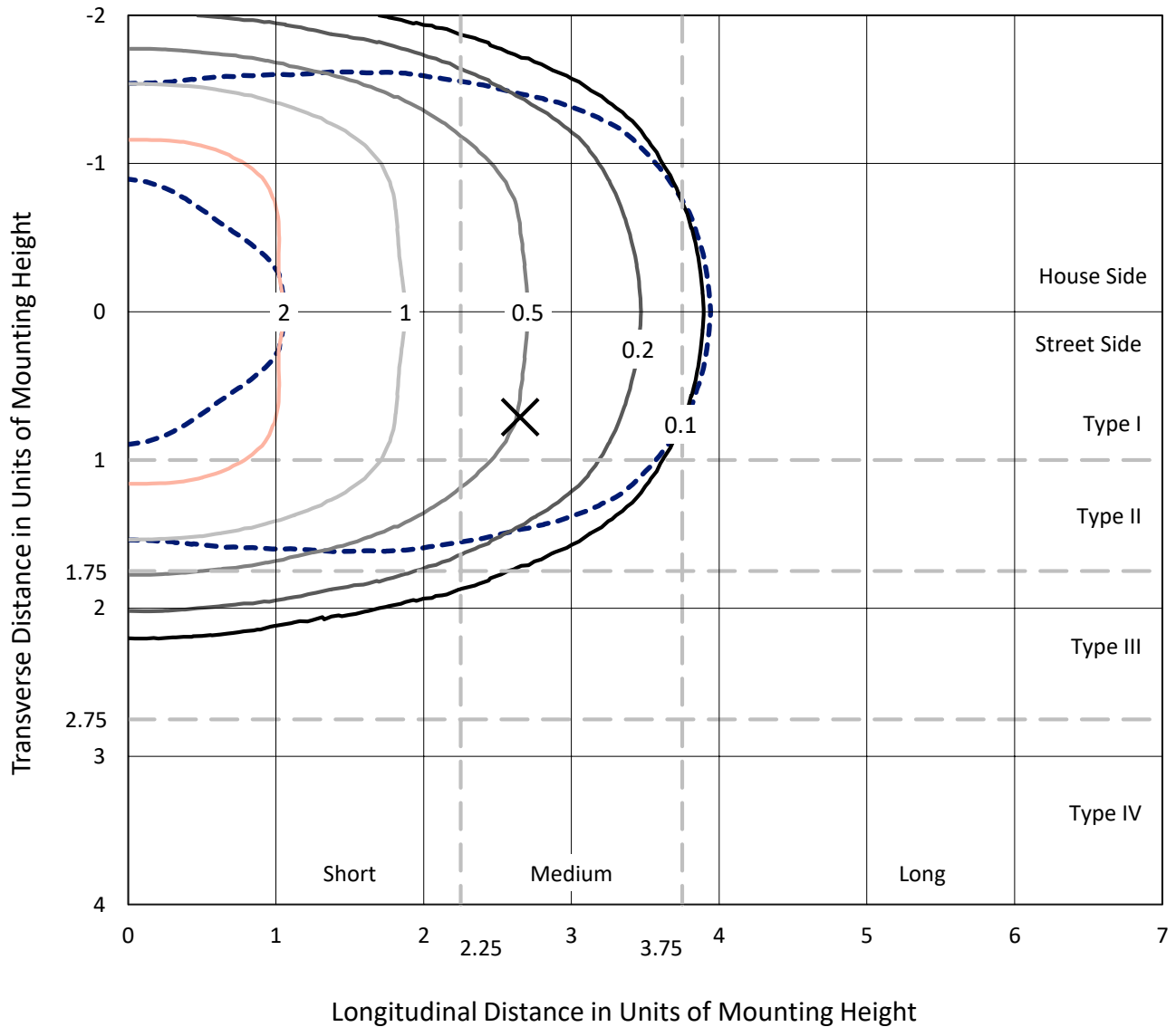


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

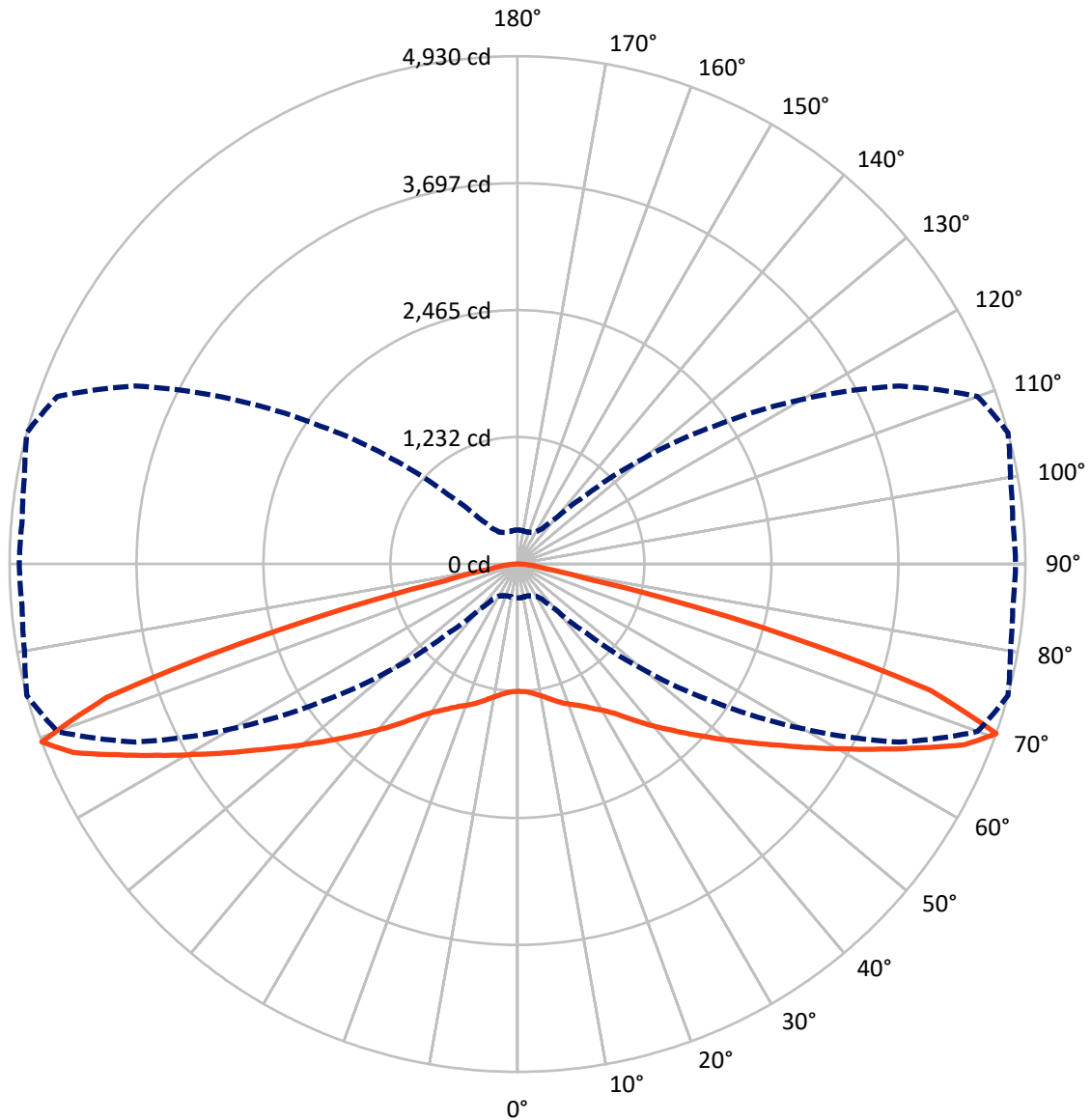


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5572.0	0.0	5572.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5572.0	0.0	5572.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11144.0	0.0	11144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.1
10°-20°	368.4	3.3
20°-30°	693.3	6.2
30°-40°	1227.7	11.0
40°-50°	2053.2	18.4
50°-60°	2861.1	25.7
60°-70°	2653.2	23.8
70°-80°	1057.4	9.5
80°-90°	111.1	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°	11144.0	100.0
0°-180°	11144.0	100.0



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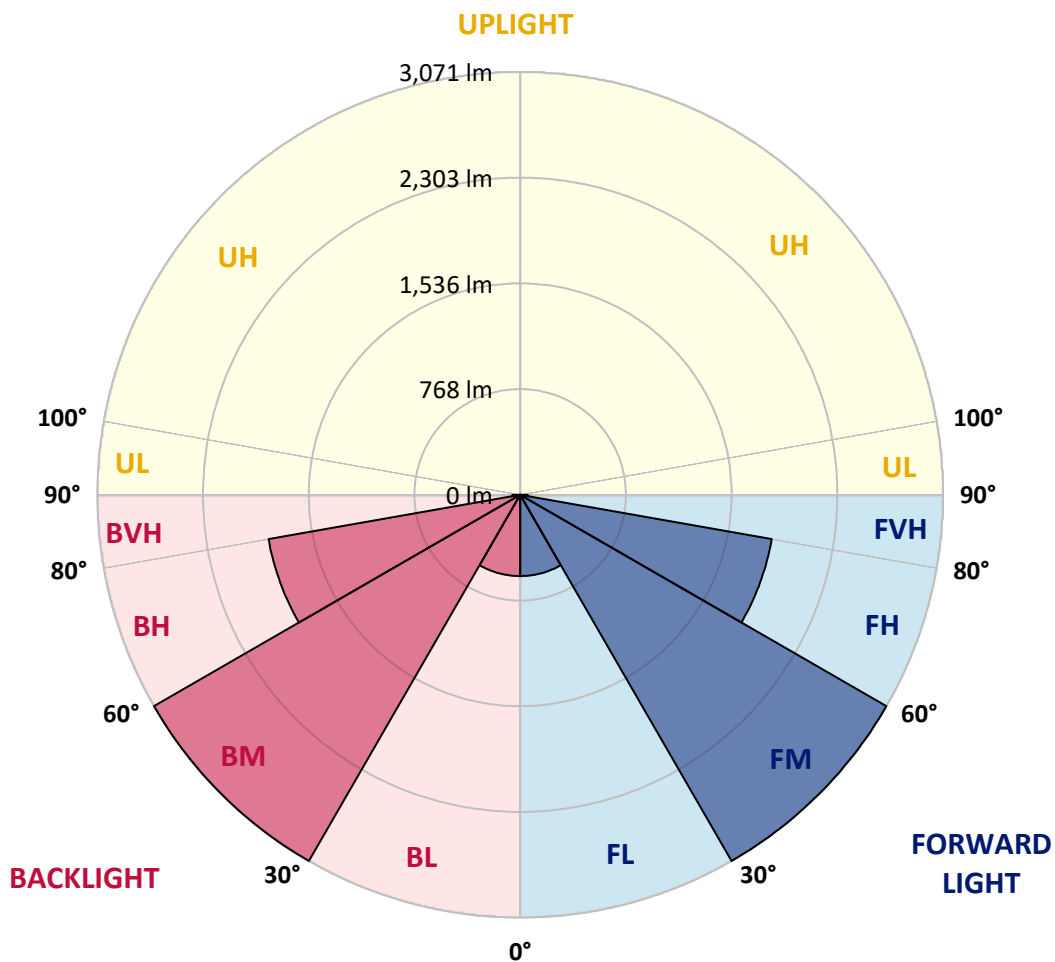
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.1	5.3			
FM	(30°-60°)	3071.0	27.6			
FH	(60°-80°)	1855.3	16.6			G2/5000
FVH	(80°-90°)	55.6	0.5			G1/100
BL	(0°-30°)	590.1	5.3	B2/1000		
BM	(30°-60°)	3071.0	27.6	B3/5000		
BH	(60°-80°)	1855.3	16.6	B3/2500		G3/2500
BVH	(80°-90°)	55.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1
2.5°	1234.0	1233.0	1234.0	1233.5	1234.5	1234.5	1235.6	1237.7	1237.7	1239.3	1238.8
5°	1221.9	1221.4	1223.0	1224.5	1226.1	1229.3	1232.4	1237.2	1240.9	1243.5	1246.1
7.5°	1198.2	1198.2	1200.3	1204.0	1207.7	1214.5	1221.9	1231.4	1240.9	1248.8	1255.6
10°	1178.7	1179.8	1182.4	1188.7	1195.0	1205.6	1215.6	1229.3	1242.4	1255.6	1266.2
12.5°	1167.1	1168.7	1173.5	1182.9	1193.5	1207.7	1223.0	1240.3	1255.1	1270.9	1281.4
15°	1170.8	1171.9	1178.7	1190.3	1204.0	1221.9	1242.4	1263.0	1280.4	1297.2	1311.4
17.5°	1191.4	1192.9	1200.8	1214.0	1228.2	1249.3	1271.4	1294.6	1316.2	1335.1	1352.5
20°	1228.2	1229.8	1239.8	1254.0	1270.9	1292.5	1314.6	1338.8	1363.1	1383.1	1402.6
22.5°	1280.4	1283.0	1292.5	1306.7	1325.7	1348.8	1375.2	1401.0	1424.2	1442.6	1460.0
25°	1348.8	1354.6	1363.6	1379.4	1399.4	1420.5	1448.9	1475.2	1497.4	1514.7	1527.4
27.5°	1445.7	1453.7	1460.5	1475.8	1495.3	1515.3	1543.7	1566.9	1588.0	1604.8	1614.3
30°	1574.3	1582.2	1589.0	1603.8	1621.7	1640.6	1667.5	1688.0	1701.2	1714.4	1713.8
32.5°	1730.2	1738.6	1741.2	1757.0	1775.5	1796.0	1820.2	1831.8	1842.3	1843.9	1834.4
35°	1904.5	1908.7	1919.2	1940.3	1961.4	1978.2	2001.4	2007.2	2007.2	1999.3	1978.2
37.5°	2095.7	2098.3	2113.1	2136.8	2158.4	2175.7	2191.5	2203.1	2197.3	2180.5	2145.2
40°	2305.3	2310.0	2331.1	2352.2	2376.4	2392.7	2409.6	2411.7	2405.9	2381.1	2333.2
42.5°	2505.4	2509.7	2530.7	2563.9	2595.5	2618.2	2634.0	2637.1	2618.7	2596.0	2536.5
45°	2677.7	2688.7	2716.1	2755.1	2800.9	2833.0	2854.6	2863.6	2847.3	2817.8	2748.8
47.5°	2814.1	2825.1	2864.1	2910.5	2967.3	3019.5	3055.3	3074.3	3070.0	3047.9	2972.6
50°	2914.1	2924.7	2966.8	3023.7	3090.1	3154.8	3215.9	3261.2	3277.0	3267.0	3198.0
52.5°	2925.7	2943.1	2992.6	3069.0	3155.4	3243.9	3330.8	3407.7	3459.8	3467.7	3416.6
55°	2764.0	2781.4	2849.9	2963.1	3091.6	3236.0	3375.0	3504.6	3607.3	3659.9	3633.1
57.5°	2382.7	2413.8	2486.0	2618.7	2807.8	3023.7	3245.4	3475.6	3684.7	3824.3	3851.1
60°	1826.0	1862.9	1935.6	2076.7	2287.4	2544.9	2840.9	3181.2	3550.4	3864.3	4051.8
62.5°	1171.3	1206.1	1282.5	1405.2	1576.9	1856.0	2173.6	2577.6	3073.7	3569.3	4016.0
65°	602.0	621.0	661.0	735.3	869.0	1077.6	1362.5	1765.4	2332.7	2944.2	3589.9
67.5°	381.3	385.0	394.0	404.5	438.7	510.9	643.6	894.8	1361.5	1999.3	2755.1
70°	329.7	329.7	325.5	323.9	328.1	338.1	358.7	417.1	574.6	949.1	1589.0
72.5°	301.8	298.6	291.3	285.5	284.4	284.4	288.6	297.6	322.9	386.6	622.0
75°	278.1	269.1	259.1	252.3	249.6	247.0	246.5	248.1	253.3	263.3	297.1
77.5°	249.1	237.5	225.9	219.1	215.9	212.3	209.1	205.4	202.8	205.9	220.7
80°	214.4	201.2	192.2	188.0	184.9	179.6	172.8	166.4	160.6	159.6	168.5
82.5°	172.8	157.5	158.0	159.6	153.8	146.4	139.0	132.2	122.2	116.9	122.2
85°	139.6	131.7	128.0	138.0	129.6	118.5	106.9	94.8	79.0	66.4	72.2
87.5°	54.2	54.2	81.1	124.8	112.2	91.6	78.5	66.9	41.6	32.1	32.7
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°	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1	1236.1
2.5°	1238.2	1239.3	1238.8	1238.2	1238.2	1237.7	1238.2	1238.2
5°	1247.7	1250.3	1250.3	1251.4	1251.4	1251.9	1252.5	1251.9
7.5°	1261.9	1266.7	1269.8	1273.5	1274.1	1274.6	1275.6	1274.6
10°	1276.2	1285.6	1292.5	1299.3	1302.5	1303.5	1304.6	1304.6
12.5°	1294.1	1307.2	1319.3	1331.5	1337.3	1340.4	1340.4	1342.5
15°	1323.6	1336.7	1350.9	1367.3	1377.3	1382.5	1384.1	1384.1
17.5°	1365.2	1376.8	1388.9	1404.7	1417.3	1424.2	1425.7	1425.2
20°	1413.6	1424.7	1431.5	1441.5	1452.6	1460.5	1462.6	1462.6
22.5°	1468.9	1475.2	1476.3	1479.5	1488.4	1498.9	1503.7	1504.7
25°	1530.0	1531.6	1527.4	1527.4	1533.2	1543.2	1547.9	1548.5
27.5°	1609.0	1601.1	1590.6	1586.9	1590.6	1602.2	1608.0	1610.1
30°	1707.5	1688.6	1664.3	1651.2	1649.1	1664.3	1674.9	1676.4
32.5°	1820.2	1792.8	1760.7	1733.8	1727.0	1736.5	1749.1	1748.6
35°	1954.0	1921.3	1882.4	1848.1	1832.3	1841.8	1859.7	1861.8
37.5°	2108.3	2065.7	2020.9	1977.7	1952.9	1955.6	1974.5	1980.9
40°	2280.5	2225.2	2168.9	2111.0	2075.7	2068.8	2092.0	2095.7
42.5°	2464.9	2393.8	2322.7	2251.1	2205.8	2195.2	2222.1	2220.5
45°	2661.3	2570.7	2487.5	2408.5	2354.8	2339.0	2361.1	2361.1
47.5°	2872.5	2760.9	2661.9	2572.3	2513.9	2491.2	2512.3	2513.9
50°	3096.4	2977.9	2861.5	2761.9	2691.9	2662.9	2690.3	2694.5
52.5°	3319.2	3203.8	3086.4	2972.6	2887.8	2852.5	2884.1	2897.8
55°	3545.1	3431.9	3319.7	3208.6	3108.0	3066.4	3100.1	3117.4
57.5°	3783.7	3678.9	3572.0	3459.8	3362.9	3298.1	3333.9	3357.1
60°	4063.4	3973.8	3862.7	3738.9	3641.0	3575.1	3595.7	3616.2
62.5°	4284.6	4319.3	4225.1	4081.8	3955.9	3871.7	3891.7	3913.3
65°	4177.7	4534.2	4618.0	4473.1	4298.8	4167.7	4159.2	4170.3
67.5°	3491.9	4184.5	4689.6	4827.6	4681.7	4499.5	4465.8	4482.1
70°	2335.8	3198.6	4089.7	4753.3	4929.8	4859.2	4826.0	4836.0
72.5°	1121.8	1862.9	2774.6	3656.8	4194.0	4440.5	4519.5	4557.9
75°	410.3	739.5	1337.3	2015.1	2432.8	2816.2	3066.4	3168.5
77.5°	247.5	298.6	427.1	643.1	728.4	815.3	781.6	798.5
80°	183.3	207.0	234.4	263.3	272.8	272.8	262.3	253.9
82.5°	128.5	143.8	157.0	172.8	177.0	169.1	139.0	110.6
85°	82.7	89.5	95.3	105.3	102.7	98.0	65.8	58.5
87.5°	37.9	43.2	45.3	50.0	47.9	45.8	32.7	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)