

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: P269211

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269211
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 17753 lumens
Efficiency: N/A
Efficacy: 103.8 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): 171
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

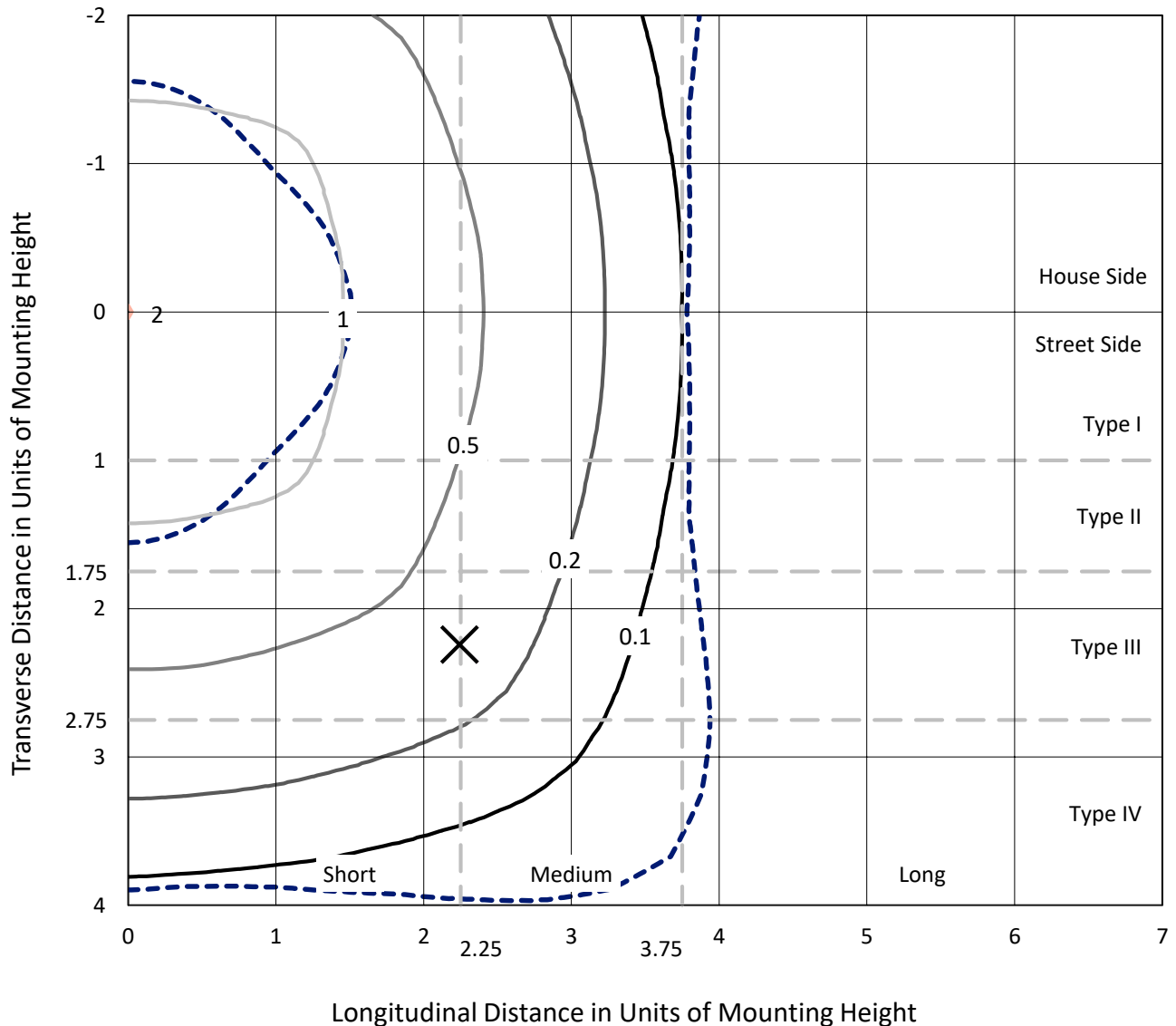


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Iso-Footcandle Lines of Horizontal Illumination

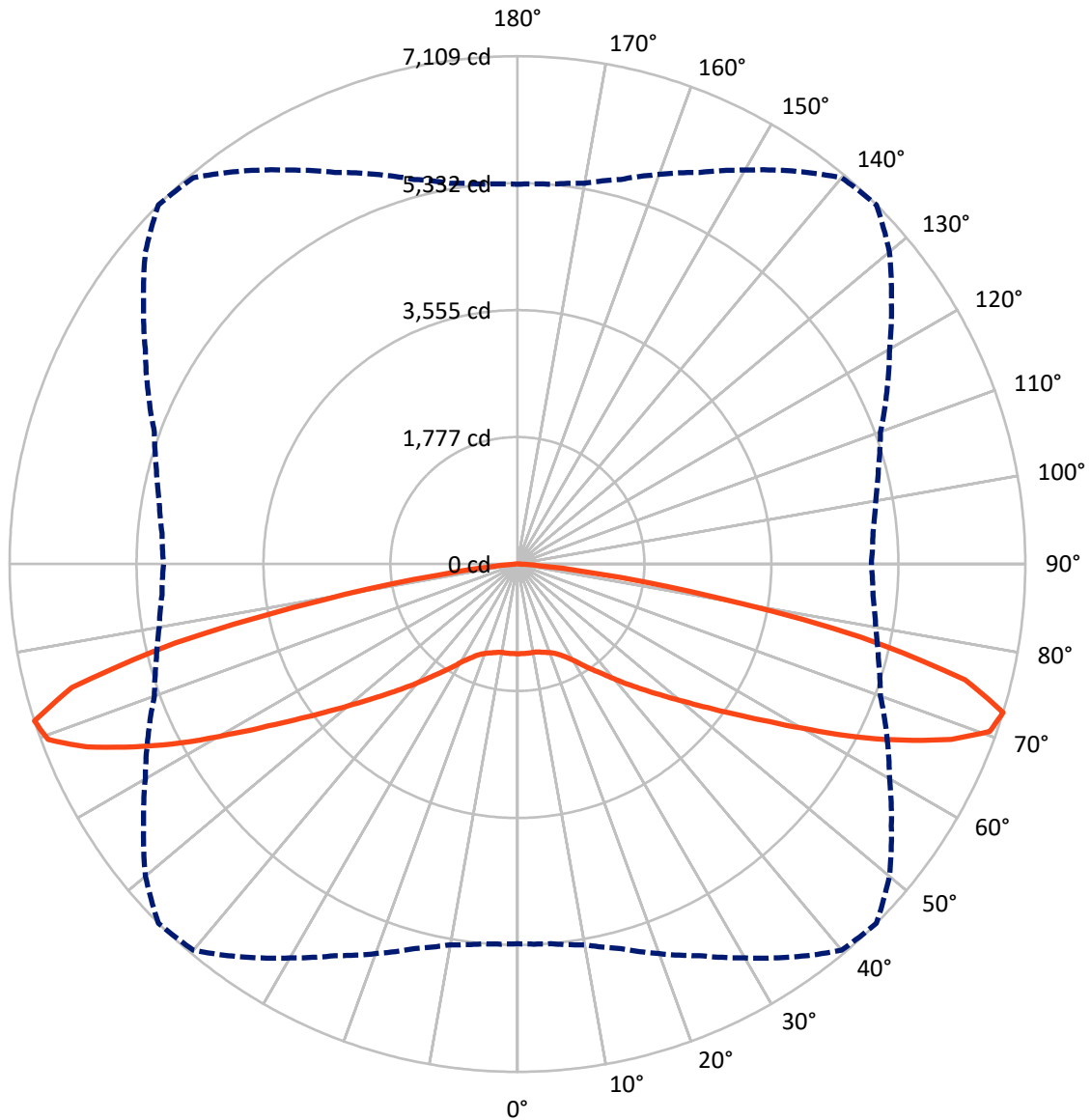
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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
House Side	Lumens	8876.5	0.0	8876.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8876.5	0.0	8876.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17753.0	0.0	17753.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	0.7
10°-20°	364.6	2.1
20°-30°	666.3	3.8
30°-40°	1148.8	6.5
40°-50°	1963.8	11.1
50°-60°	3183.1	17.9
60°-70°	5280.6	29.7
70°-80°	4650.9	26.2
80°-90°	375.0	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°	17753.0	100.0
0°-180°	17753.0	100.0



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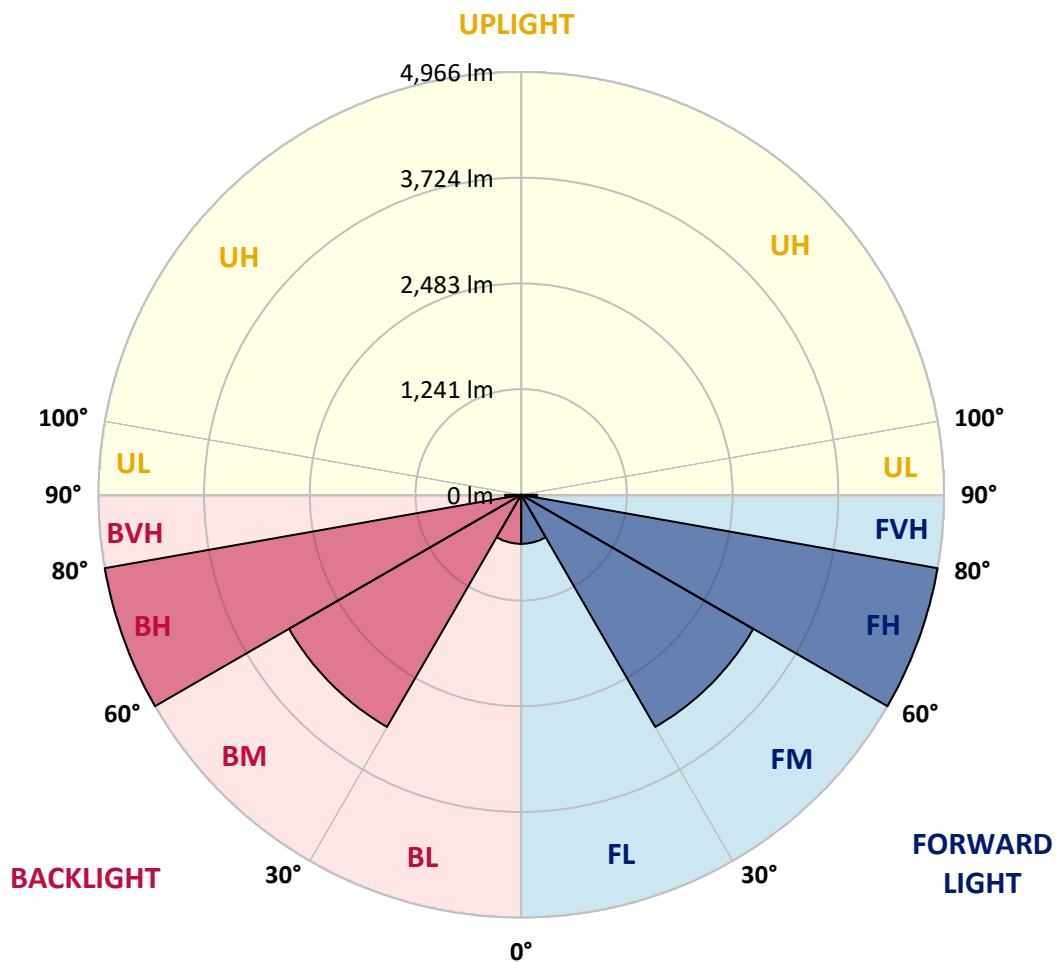
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.5	3.2			
FM	(30°-60°)	3147.8	17.7			
FH	(60°-80°)	4965.8	28.0			G2/5000
FVH	(80°-90°)	187.5	1.1			G2/225
BL	(0°-30°)	575.5	3.2	B2/1000		
BM	(30°-60°)	3147.8	17.7	B3/5000		
BH	(60°-80°)	4965.8	28.0	B4/5000		G2/5000
BVH	(80°-90°)	187.5	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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1257.2	1257.9	1258.9	1257.9	1257.9	1257.2	1256.4	1257.2	1256.4	1254.8	1255.7
5°	1261.3	1262.8	1262.8	1261.3	1262.1	1261.3	1259.7	1260.4	1258.9	1256.4	1256.4
7.5°	1266.2	1267.0	1267.0	1265.4	1266.2	1264.5	1262.8	1262.1	1260.4	1257.2	1254.8
10°	1273.4	1274.2	1273.4	1271.8	1271.8	1269.5	1265.4	1263.6	1260.4	1255.7	1253.1
12.5°	1281.6	1282.4	1281.6	1279.9	1279.1	1275.1	1271.8	1269.5	1267.0	1262.8	1258.9
15°	1293.0	1294.6	1293.0	1289.7	1287.4	1284.0	1282.4	1283.3	1284.0	1280.9	1276.8
17.5°	1314.2	1314.9	1312.6	1305.2	1302.0	1298.7	1298.7	1300.3	1302.8	1301.1	1297.2
20°	1353.2	1350.8	1345.1	1336.1	1332.0	1326.3	1325.5	1326.3	1326.3	1325.5	1322.3
22.5°	1402.2	1400.5	1393.2	1381.8	1376.1	1372.8	1367.8	1363.8	1363.1	1360.7	1357.3
25°	1460.7	1459.9	1451.0	1441.2	1437.2	1433.1	1429.1	1423.4	1418.5	1412.8	1409.4
27.5°	1535.7	1532.4	1519.4	1514.5	1508.9	1506.4	1500.7	1494.2	1490.1	1482.7	1478.7
30°	1617.8	1617.8	1607.2	1605.7	1605.7	1600.1	1593.5	1582.1	1574.8	1567.5	1564.9
32.5°	1700.1	1700.9	1690.4	1693.7	1696.1	1700.1	1701.7	1697.6	1692.9	1692.0	1687.0
35°	1819.0	1815.7	1805.1	1807.6	1806.9	1806.0	1806.0	1814.9	1816.6	1818.2	1808.5
37.5°	1966.4	1966.4	1955.8	1955.8	1950.8	1946.1	1939.5	1945.2	1954.3	1956.6	1950.1
40°	2134.9	2140.7	2127.6	2126.7	2128.4	2113.0	2105.6	2114.6	2120.3	2130.1	2122.8
42.5°	2333.6	2329.6	2316.5	2314.9	2305.9	2301.1	2294.5	2301.8	2310.8	2317.4	2319.8
45°	2524.1	2521.0	2506.2	2506.2	2497.3	2493.2	2496.5	2508.6	2512.7	2521.7	2530.6
47.5°	2712.3	2708.2	2698.4	2702.6	2703.3	2710.6	2721.1	2732.6	2744.1	2756.2	2760.3
50°	2904.4	2905.2	2894.6	2904.4	2916.5	2937.0	2965.5	2984.2	3007.9	3023.2	3028.1
52.5°	3079.5	3082.8	3094.1	3116.8	3141.4	3181.3	3230.0	3275.7	3314.7	3340.8	3339.2
55°	3289.6	3294.4	3322.1	3361.2	3401.2	3461.3	3533.8	3614.4	3679.5	3717.0	3693.4
57.5°	3558.2	3568.8	3599.8	3652.7	3712.2	3790.3	3889.7	4010.9	4111.9	4162.3	4124.2
60°	3927.1	3933.6	3971.0	4029.6	4101.3	4198.1	4331.0	4493.9	4636.3	4703.0	4659.1
62.5°	4413.3	4425.4	4455.6	4515.1	4588.3	4698.1	4860.2	5063.7	5241.3	5334.0	5234.8
65°	4993.8	5032.8	5058.0	5118.4	5186.8	5303.1	5472.6	5690.8	5881.3	5942.4	5827.6
67.5°	5568.7	5602.8	5646.7	5715.9	5785.2	5916.2	6073.4	6285.1	6494.3	6549.7	6371.5
70°	5820.2	5839.7	5908.2	6002.7	6135.3	6290.0	6471.6	6709.4	6968.3	7013.8	6787.6
72.5°	5316.2	5335.8	5412.3	5572.6	5803.9	6049.8	6366.6	6715.9	7057.9	7109.1	6797.2
75°	4020.8	3989.0	4102.2	4314.6	4626.5	4969.3	5412.3	5913.1	6407.3	6471.6	6099.5
77.5°	2078.0	2073.8	2159.3	2423.2	2795.3	3185.3	3673.1	4238.9	4722.6	4918.0	4615.1
80°	585.4	592.0	632.6	763.7	981.2	1262.8	1644.0	2174.0	2569.7	2771.7	2602.3
82.5°	229.5	247.6	263.1	287.5	315.9	357.4	477.1	710.0	952.7	1138.3	932.4
85°	82.3	87.9	124.5	147.4	149.7	157.9	179.9	210.1	253.2	302.1	248.3
87.5°	30.9	34.1	40.0	65.9	65.1	59.5	72.5	75.7	57.0	52.1	64.3
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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1253.9	1254.8	1254.8	1255.7	1256.4	1256.4	1257.9	1257.9
5°	1254.8	1254.8	1253.1	1253.9	1253.1	1253.1	1253.9	1253.9
7.5°	1253.1	1252.2	1250.7	1249.8	1248.3	1248.3	1248.3	1248.3
10°	1250.7	1249.8	1248.3	1247.4	1246.6	1246.6	1246.6	1246.6
12.5°	1257.2	1254.8	1253.1	1252.2	1252.2	1252.2	1252.2	1252.2
15°	1274.2	1268.5	1264.5	1264.5	1265.4	1267.0	1267.0	1268.5
17.5°	1295.4	1289.0	1284.8	1281.6	1283.3	1285.7	1287.4	1289.0
20°	1320.7	1317.5	1311.7	1308.6	1308.6	1311.7	1313.4	1314.2
22.5°	1355.7	1353.2	1350.8	1346.7	1346.7	1348.4	1351.6	1351.6
25°	1407.9	1406.1	1404.6	1401.4	1400.5	1400.5	1402.2	1403.7
27.5°	1473.0	1473.8	1472.1	1471.3	1468.9	1468.1	1470.5	1469.6
30°	1560.0	1564.2	1568.3	1564.9	1561.0	1558.5	1556.0	1552.8
32.5°	1678.2	1673.3	1669.9	1664.3	1657.0	1650.5	1645.5	1639.9
35°	1789.8	1781.6	1778.4	1783.1	1782.3	1778.4	1772.6	1767.8
37.5°	1926.4	1924.9	1926.4	1935.5	1933.8	1938.0	1926.4	1925.6
40°	2099.1	2100.7	2112.2	2122.8	2128.4	2134.2	2127.6	2121.1
42.5°	2299.4	2298.7	2302.6	2317.4	2327.1	2333.6	2319.8	2318.2
45°	2511.1	2505.5	2508.6	2521.0	2530.6	2538.0	2522.5	2522.5
47.5°	2744.1	2734.3	2723.7	2737.4	2743.2	2748.1	2735.9	2731.7
50°	3003.8	2983.5	2960.5	2966.4	2966.4	2964.6	2949.1	2948.3
52.5°	3301.8	3264.4	3222.8	3207.3	3198.3	3188.5	3161.8	3148.6
55°	3644.6	3588.4	3523.2	3483.4	3462.2	3435.3	3390.6	3378.3
57.5°	4045.2	3957.3	3844.8	3796.0	3748.7	3704.8	3655.2	3641.3
60°	4519.8	4390.3	4241.3	4151.0	4099.8	4057.4	4006.1	4003.7
62.5°	5049.2	4844.7	4676.1	4594.8	4557.3	4519.8	4471.0	4477.5
65°	5587.4	5374.0	5216.1	5150.2	5115.0	5084.1	5035.3	5042.5
67.5°	6118.3	5921.9	5748.6	5681.1	5641.9	5602.8	5558.8	5566.2
70°	6499.2	6255.8	6060.4	5910.6	5817.0	5711.2	5642.8	5625.5
72.5°	6390.2	6014.8	5704.5	5407.3	5233.2	5091.5	4995.4	4953.9
75°	5530.3	5017.4	4618.4	4253.7	4048.4	3881.4	3760.1	3684.5
77.5°	4107.1	3530.6	3059.1	2639.0	2306.8	2083.7	1926.4	1824.6
80°	2248.1	1710.0	1249.8	878.5	645.7	536.6	473.9	443.8
82.5°	700.3	451.8	333.0	287.5	267.1	255.7	237.0	206.8
85°	223.0	195.4	181.5	173.5	165.3	144.1	99.4	90.4
87.5°	86.2	88.8	87.9	83.1	84.7	61.1	48.9	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)