

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: P193441

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193441
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17134 lumens
Efficiency: N/A
Efficacy: 89.7 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): 191
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

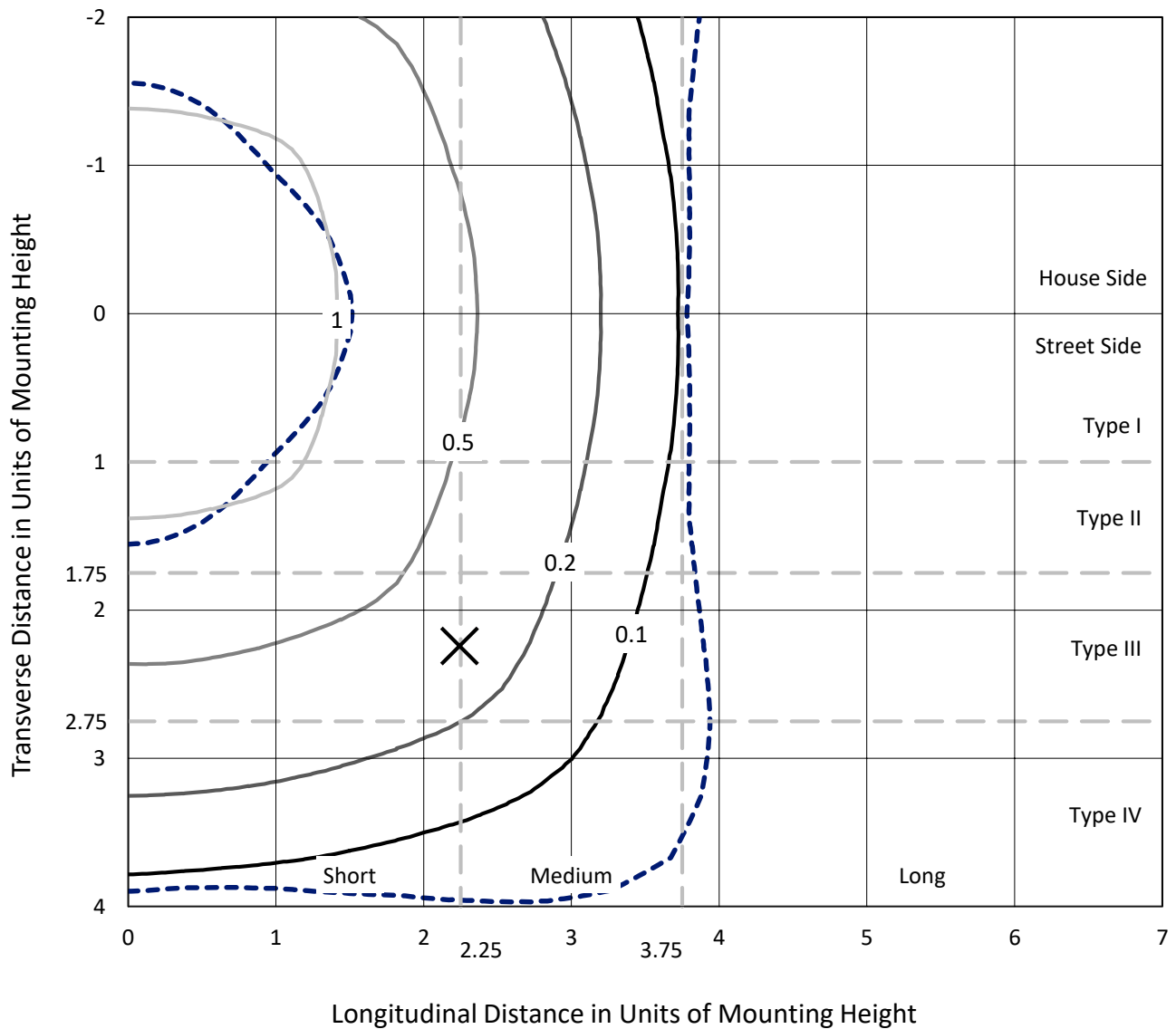


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

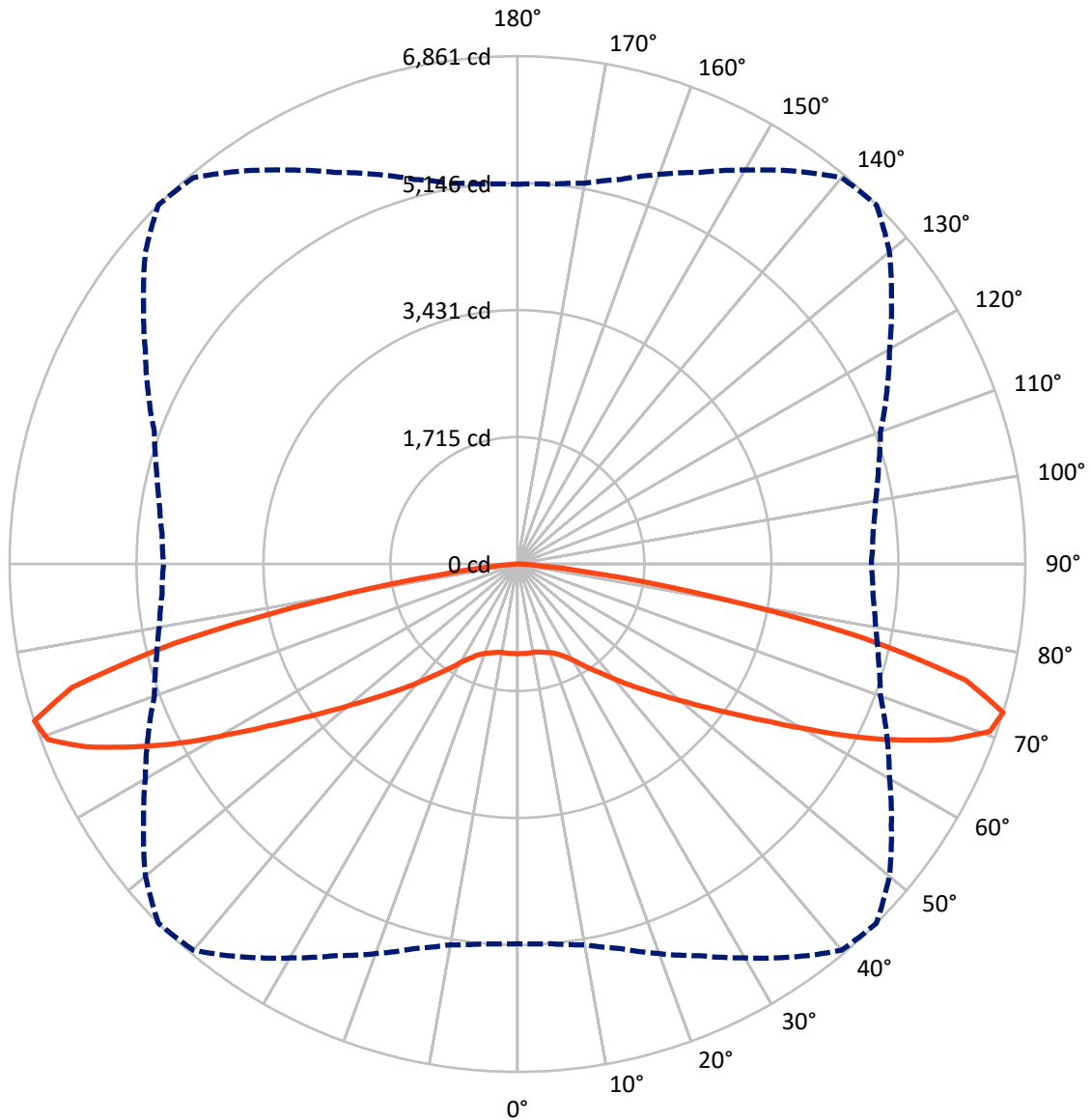


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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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	8567.0	0.0	8567.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8567.0	0.0	8567.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17134.0	0.0	17134.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.9	0.7
10°-20°	351.9	2.1
20°-30°	643.0	3.8
30°-40°	1108.7	6.5
40°-50°	1895.3	11.1
50°-60°	3072.1	17.9
60°-70°	5096.4	29.7
70°-80°	4488.8	26.2
80°-90°	361.9	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°	17134.0	100.0
0°-180°	17134.0	100.0



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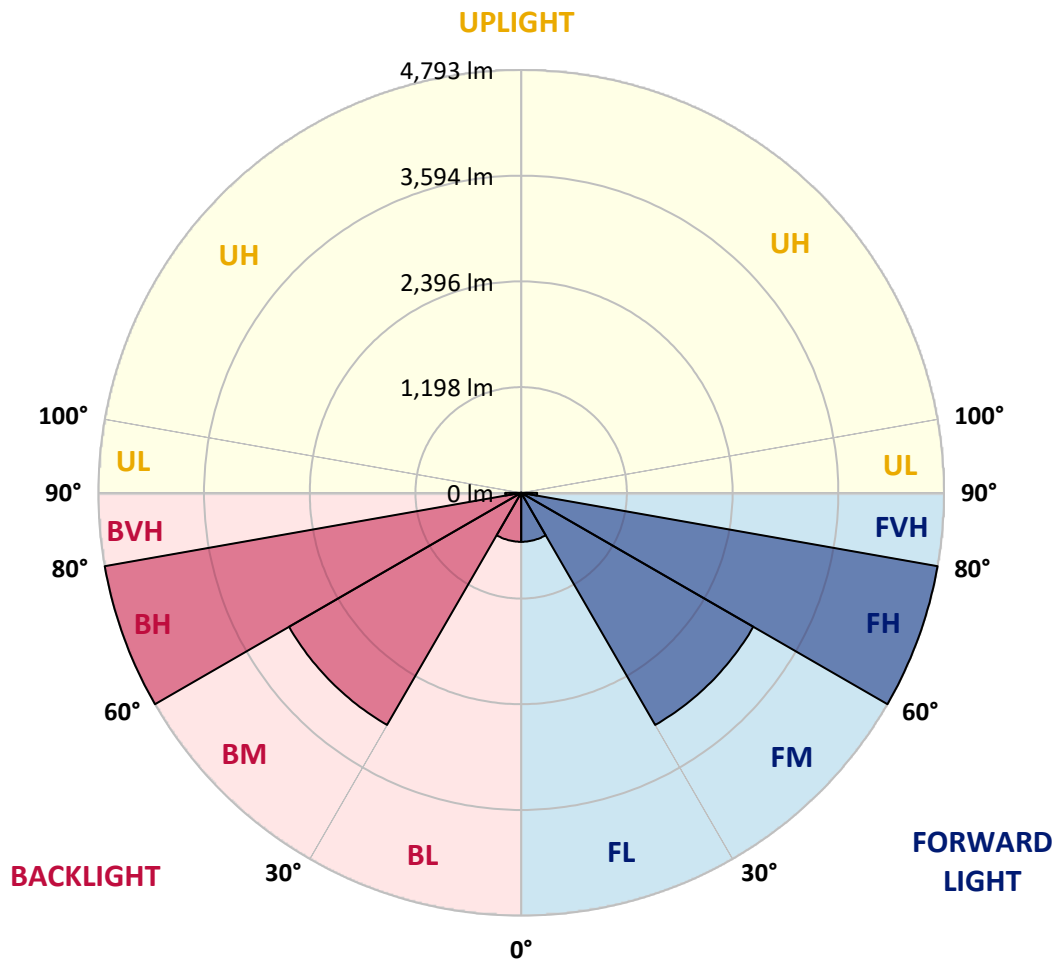
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.4	3.2			
FM (30°-60°)	3038.0	17.7			
FH (60°-80°)	4792.6	28.0			G2/5000
FVH (80°-90°)	181.0	1.1			G2/225
BL (0°-30°)	555.4	3.2	B2/1000		
BM (30°-60°)	3038.0	17.7	B3/5000		
BH (60°-80°)	4792.6	28.0	B4/5000		G2/5000
BVH (80°-90°)	181.0	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°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1213.4	1214.1	1214.9	1214.1	1214.1	1213.4	1212.6	1213.4	1212.6	1211.0	1211.8
5°	1217.3	1218.9	1218.9	1217.3	1218.1	1217.3	1215.7	1216.5	1214.9	1212.6	1212.6
7.5°	1222.0	1222.8	1222.8	1221.2	1222.0	1220.4	1218.9	1218.1	1216.5	1213.4	1211.0
10°	1229.1	1229.9	1229.1	1227.5	1227.5	1225.1	1221.2	1219.6	1216.5	1211.8	1209.4
12.5°	1236.9	1237.7	1236.9	1235.4	1234.6	1230.6	1227.5	1225.1	1222.8	1218.9	1214.9
15°	1247.9	1249.5	1247.9	1244.8	1242.4	1239.3	1237.7	1238.5	1239.3	1236.1	1232.2
17.5°	1268.4	1269.1	1266.8	1259.7	1256.6	1253.4	1253.4	1255.0	1257.4	1255.8	1251.9
20°	1306.1	1303.7	1298.2	1289.6	1285.7	1280.2	1279.4	1280.2	1280.2	1279.4	1276.2
22.5°	1353.2	1351.7	1344.6	1333.6	1328.1	1324.9	1320.2	1316.3	1315.5	1313.2	1310.0
25°	1409.8	1409.0	1400.4	1391.0	1387.0	1383.1	1379.2	1373.7	1369.0	1363.5	1360.3
27.5°	1482.1	1479.0	1466.4	1461.7	1456.2	1453.8	1448.3	1442.0	1438.1	1431.0	1427.1
30°	1561.5	1561.5	1551.3	1549.7	1549.7	1544.2	1537.9	1526.9	1519.8	1512.8	1510.4
32.5°	1640.9	1641.6	1631.4	1634.6	1636.9	1640.9	1642.4	1638.5	1633.8	1633.0	1628.3
35°	1755.6	1752.4	1742.2	1744.6	1743.8	1743.0	1743.0	1751.7	1753.2	1754.8	1745.4
37.5°	1897.8	1897.8	1887.6	1887.6	1882.9	1878.2	1871.9	1877.4	1886.0	1888.4	1882.1
40°	2060.5	2066.0	2053.4	2052.6	2054.2	2039.3	2032.2	2040.9	2046.4	2055.8	2048.7
42.5°	2252.2	2248.3	2235.7	2234.2	2225.5	2220.8	2214.5	2221.6	2230.2	2236.5	2238.9
45°	2436.1	2433.0	2418.8	2418.8	2410.2	2406.3	2409.4	2421.2	2425.1	2433.8	2442.4
47.5°	2617.7	2613.7	2604.3	2608.2	2609.0	2616.1	2626.3	2637.3	2648.3	2660.1	2664.0
50°	2803.1	2803.9	2793.7	2803.1	2814.9	2834.6	2862.1	2880.1	2902.9	2917.9	2922.6
52.5°	2972.1	2975.2	2986.2	3008.2	3031.8	3070.3	3117.5	3161.5	3199.2	3224.3	3222.8
55°	3174.8	3179.6	3206.3	3244.0	3282.5	3340.7	3410.6	3488.4	3551.3	3587.4	3564.6
57.5°	3434.2	3444.4	3474.2	3525.3	3582.7	3658.1	3754.0	3871.1	3968.5	4017.3	3980.3
60°	3790.2	3796.4	3832.6	3889.2	3958.3	4051.8	4179.9	4337.1	4474.6	4539.1	4496.6
62.5°	4259.3	4271.1	4300.2	4357.5	4428.3	4534.4	4690.7	4887.2	5058.5	5148.1	5052.2
65°	4819.6	4857.3	4881.7	4939.9	5005.9	5118.2	5281.7	5492.3	5676.2	5735.1	5624.3
67.5°	5374.4	5407.4	5449.9	5516.7	5583.5	5710.0	5861.7	6066.0	6267.9	6321.4	6149.3
70°	5617.3	5636.1	5702.1	5793.3	5921.4	6070.7	6245.9	6475.4	6725.3	6769.3	6550.9
72.5°	5130.8	5149.7	5223.5	5378.4	5601.5	5838.9	6144.6	6481.7	6811.8	6861.3	6560.3
75°	3880.5	3849.9	3959.1	4164.2	4465.2	4796.0	5223.5	5706.8	6183.9	6245.9	5886.8
77.5°	2005.5	2001.6	2084.1	2338.7	2697.8	3074.2	3545.0	4091.1	4557.9	4746.5	4454.2
80°	565.0	571.3	610.6	737.1	947.0	1218.9	1586.6	2098.2	2480.1	2675.0	2511.6
82.5°	221.6	238.9	253.8	277.4	304.9	345.0	460.5	685.3	919.4	1098.6	899.8
85°	79.4	84.9	120.2	142.2	144.6	152.5	173.7	202.7	244.4	291.6	239.7
87.5°	29.9	33.0	38.5	63.7	62.9	57.4	69.9	73.1	55.0	50.3	62.1
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°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1210.2	1211.0	1211.0	1211.8	1212.6	1212.6	1214.1	1214.1
5°	1211.0	1211.0	1209.4	1210.2	1209.4	1209.4	1210.2	1210.2
7.5°	1209.4	1208.6	1207.1	1206.3	1204.7	1204.7	1204.7	1204.7
10°	1207.1	1206.3	1204.7	1203.9	1203.1	1203.1	1203.1	1203.1
12.5°	1213.4	1211.0	1209.4	1208.6	1208.6	1208.6	1208.6	1208.6
15°	1229.9	1224.4	1220.4	1220.4	1221.2	1222.8	1222.8	1224.4
17.5°	1250.3	1244.0	1240.1	1236.9	1238.5	1240.9	1242.4	1244.0
20°	1274.6	1271.5	1266.0	1262.9	1262.9	1266.0	1267.6	1268.4
22.5°	1308.4	1306.1	1303.7	1299.8	1299.8	1301.4	1304.5	1304.5
25°	1358.7	1357.2	1355.6	1352.4	1351.7	1351.7	1353.2	1354.8
27.5°	1421.6	1422.4	1420.8	1420.0	1417.7	1416.9	1419.2	1418.5
30°	1505.7	1509.6	1513.5	1510.4	1506.5	1504.1	1501.8	1498.6
32.5°	1619.6	1614.9	1611.8	1606.3	1599.2	1592.9	1588.2	1582.7
35°	1727.3	1719.4	1716.3	1721.0	1720.2	1716.3	1710.8	1706.1
37.5°	1859.3	1857.8	1859.3	1868.0	1866.4	1870.3	1859.3	1858.5
40°	2025.9	2027.5	2038.5	2048.7	2054.2	2059.7	2053.4	2047.1
42.5°	2219.2	2218.5	2222.4	2236.5	2246.0	2252.2	2238.9	2237.3
45°	2423.6	2418.1	2421.2	2433.0	2442.4	2449.5	2434.6	2434.6
47.5°	2648.3	2638.9	2628.7	2642.0	2647.5	2652.2	2640.5	2636.5
50°	2899.0	2879.4	2857.4	2862.9	2862.9	2861.3	2846.4	2845.6
52.5°	3186.6	3150.5	3110.4	3095.5	3086.8	3077.4	3051.5	3038.9
55°	3517.5	3463.2	3400.4	3361.9	3341.4	3315.5	3272.3	3260.5
57.5°	3904.1	3819.2	3710.8	3663.6	3618.1	3575.6	3527.7	3514.3
60°	4362.3	4237.3	4093.5	4006.3	3956.8	3915.9	3866.4	3864.0
62.5°	4873.1	4675.8	4513.1	4434.6	4398.4	4362.3	4315.1	4321.4
65°	5392.5	5186.6	5034.2	4970.5	4936.7	4906.9	4859.7	4866.8
67.5°	5904.9	5715.5	5548.1	5482.9	5445.2	5407.4	5365.0	5372.1
70°	6272.7	6037.7	5849.1	5704.5	5614.1	5512.0	5445.9	5429.4
72.5°	6167.4	5805.1	5505.7	5218.8	5050.7	4913.9	4821.2	4781.1
75°	5337.5	4842.4	4457.3	4105.3	3907.2	3746.1	3629.1	3556.0
77.5°	3963.8	3407.4	2952.4	2546.9	2226.3	2011.0	1859.3	1761.1
80°	2169.7	1650.3	1206.3	847.9	623.2	517.9	457.4	428.3
82.5°	675.8	436.1	321.4	277.4	257.8	246.8	228.7	199.6
85°	215.3	188.6	175.2	167.4	159.5	139.1	95.9	87.2
87.5°	83.3	85.7	84.9	80.2	81.7	58.9	47.2	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)