

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: P194212

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194212
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16664 lumens
Efficiency: N/A
Efficacy: 129.2 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): 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

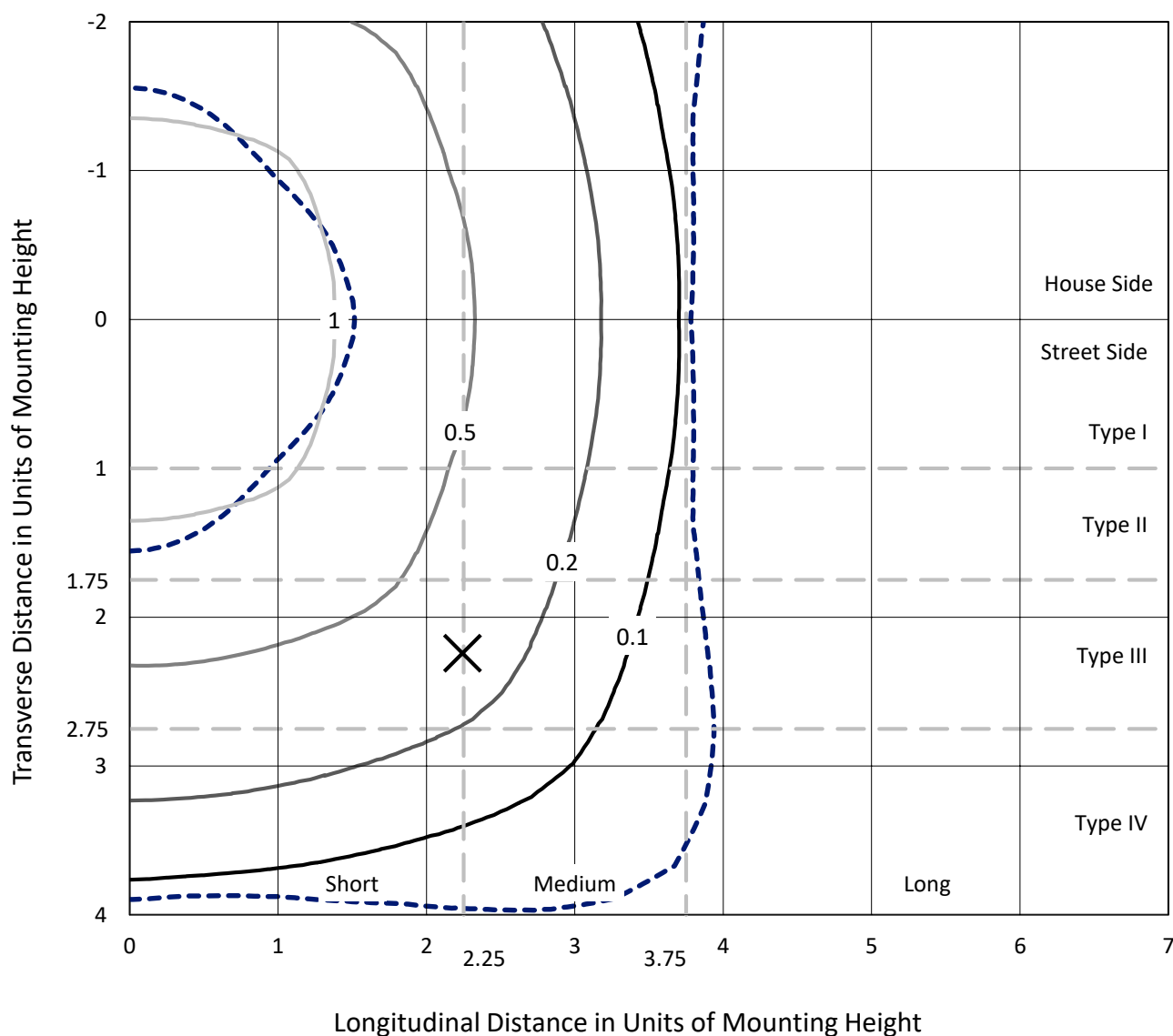


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

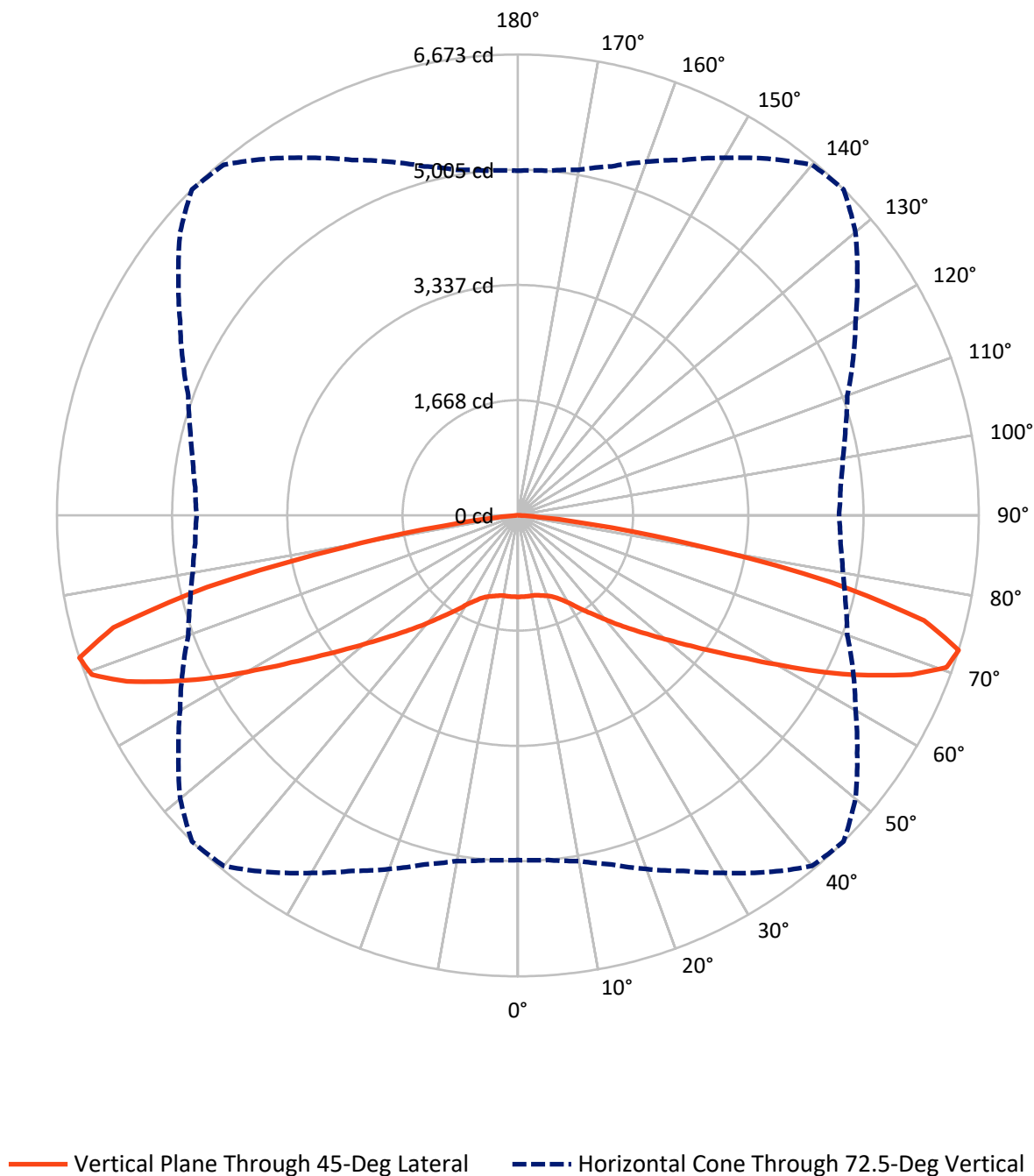


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8332.0	0.0	8332.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8332.0	0.0	8332.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16664.0	0.0	16664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	0.7
10°-20°	342.2	2.1
20°-30°	625.4	3.8
30°-40°	1078.3	6.5
40°-50°	1843.3	11.1
50°-60°	2987.8	17.9
60°-70°	4956.6	29.7
70°-80°	4365.6	26.2
80°-90°	352.0	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°	16664.0	100.0
0°-180°	16664.0	100.0

Coefficient of Utilization



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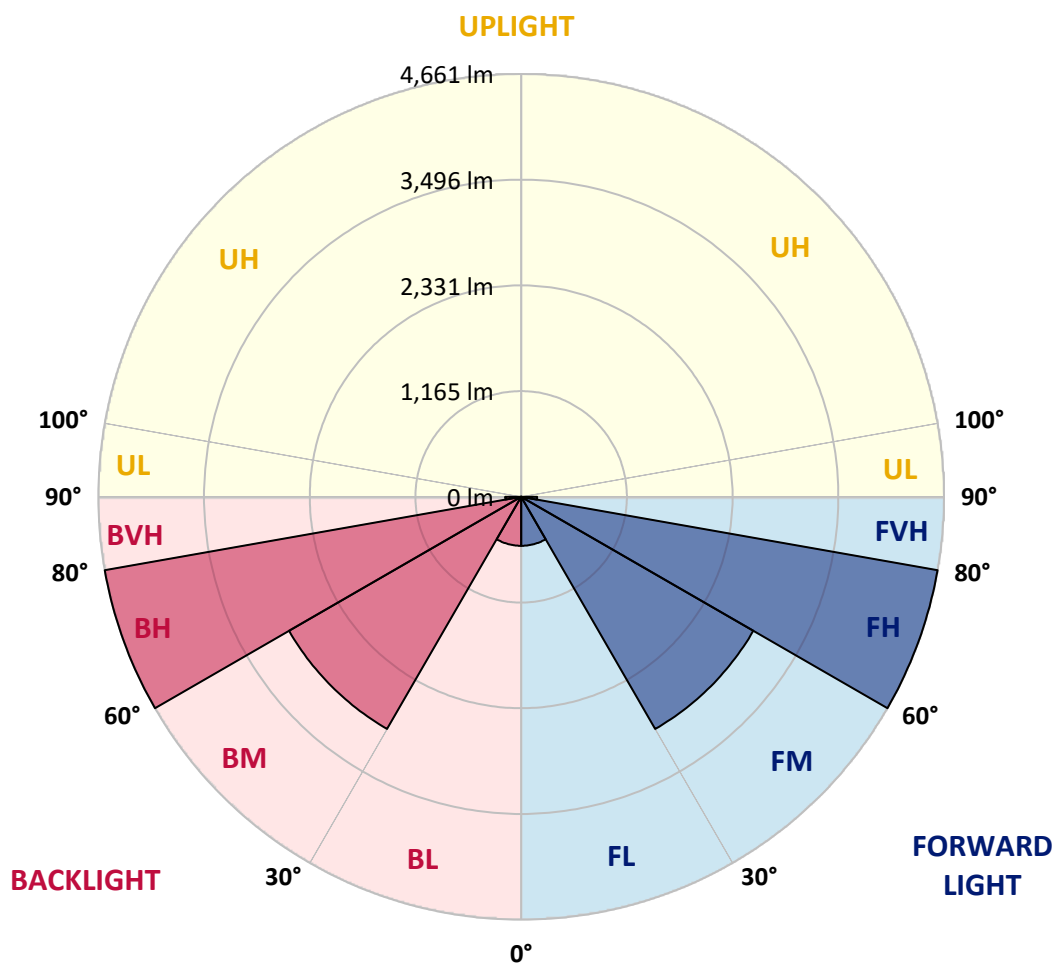
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.2	3.2			
FM	(30°-60°)	2954.7	17.7			
FH	(60°-80°)	4661.1	28.0			G2/5000
FVH	(80°-90°)	176.0	1.1			G2/225
BL	(0°-30°)	540.2	3.2	B2/1000		
BM	(30°-60°)	2954.7	17.7	B3/5000		
BH	(60°-80°)	4661.1	28.0	B4/5000		G2/5000
BVH	(80°-90°)	176.0	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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1180.1	1180.8	1181.6	1180.8	1180.8	1180.1	1179.3	1180.1	1179.3	1177.8	1178.5
5°	1183.9	1185.4	1185.4	1183.9	1184.7	1183.9	1182.4	1183.1	1181.6	1179.3	1179.3
7.5°	1188.5	1189.2	1189.2	1187.7	1188.5	1186.9	1185.4	1184.7	1183.1	1180.1	1177.8
10°	1195.4	1196.1	1195.4	1193.8	1193.8	1191.5	1187.7	1186.2	1183.1	1178.5	1176.2
12.5°	1203.0	1203.8	1203.0	1201.5	1200.7	1196.9	1193.8	1191.5	1189.2	1185.4	1181.6
15°	1213.7	1215.2	1213.7	1210.6	1208.3	1205.3	1203.8	1204.5	1205.3	1202.2	1198.4
17.5°	1233.6	1234.3	1232.0	1225.2	1222.1	1219.0	1219.0	1220.6	1222.9	1221.3	1217.5
20°	1270.3	1268.0	1262.6	1254.2	1250.4	1245.0	1244.3	1245.0	1245.0	1244.3	1241.2
22.5°	1316.1	1314.6	1307.7	1297.0	1291.7	1288.6	1284.0	1280.2	1279.4	1277.1	1274.1
25°	1371.1	1370.4	1362.0	1352.8	1349.0	1345.2	1341.3	1336.0	1331.4	1326.1	1323.0
27.5°	1441.5	1438.4	1426.2	1421.6	1416.2	1413.9	1408.6	1402.5	1398.7	1391.8	1388.0
30°	1518.7	1518.7	1508.7	1507.2	1507.2	1501.8	1495.7	1485.0	1478.1	1471.3	1469.0
32.5°	1595.8	1596.6	1586.7	1589.7	1592.0	1595.8	1597.4	1593.6	1589.0	1588.2	1583.6
35°	1707.4	1704.4	1694.4	1696.7	1696.0	1695.2	1695.2	1703.6	1705.1	1706.7	1697.5
37.5°	1845.8	1845.8	1835.8	1835.8	1831.2	1826.7	1820.5	1825.9	1834.3	1836.6	1830.5
40°	2004.0	2009.3	1997.1	1996.3	1997.9	1983.3	1976.5	1984.9	1990.2	1999.4	1992.5
42.5°	2190.5	2186.6	2174.4	2172.9	2164.5	2159.9	2153.8	2160.7	2169.1	2175.2	2177.5
45°	2369.3	2366.3	2352.5	2352.5	2344.1	2340.3	2343.3	2354.8	2358.6	2367.0	2375.4
47.5°	2545.9	2542.0	2532.9	2536.7	2537.5	2544.3	2554.3	2565.0	2575.7	2587.1	2591.0
50°	2726.2	2727.0	2717.1	2726.2	2737.7	2756.8	2783.6	2801.1	2823.3	2837.8	2842.4
52.5°	2890.6	2893.6	2904.3	2925.7	2948.6	2986.1	3032.0	3074.8	3111.4	3135.9	3134.4
55°	3087.7	3092.3	3118.3	3155.0	3192.5	3249.0	3317.0	3392.7	3453.8	3489.0	3466.8
57.5°	3340.0	3349.9	3378.9	3428.6	3484.4	3557.8	3651.0	3764.9	3859.7	3907.1	3871.1
60°	3686.2	3692.3	3727.5	3782.5	3849.7	3940.7	4065.3	4218.1	4351.9	4414.6	4373.3
62.5°	4142.5	4153.9	4182.2	4238.0	4306.8	4410.0	4562.1	4753.1	4919.8	5006.9	4913.6
65°	4687.4	4724.1	4747.8	4804.4	4868.6	4977.8	5136.8	5341.7	5520.5	5577.8	5470.1
67.5°	5227.0	5259.1	5300.4	5365.3	5430.3	5553.4	5700.9	5899.6	6096.0	6148.0	5980.6
70°	5463.2	5481.5	5545.7	5634.4	5759.0	5904.2	6074.6	6297.8	6540.8	6583.6	6371.2
72.5°	4990.1	5008.4	5080.3	5230.8	5447.9	5678.7	5976.0	6303.9	6624.9	6673.1	6380.3
75°	3774.1	3744.3	3850.5	4050.0	4342.7	4664.5	5080.3	5550.3	6014.2	6074.6	5725.3
77.5°	1950.5	1946.7	2026.9	2274.5	2623.8	2989.9	3447.7	3978.9	4432.9	4616.3	4332.0
80°	549.5	555.6	593.9	716.9	921.0	1185.4	1543.1	2040.7	2412.1	2601.7	2442.7
82.5°	215.5	232.3	246.9	269.8	296.5	335.5	447.9	666.5	894.2	1068.5	875.1
85°	77.2	82.5	116.9	138.3	140.6	148.3	168.9	197.2	237.7	283.6	233.1
87.5°	29.0	32.1	37.5	61.9	61.1	55.8	68.0	71.1	53.5	48.9	60.4
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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1177.0	1177.8	1177.8	1178.5	1179.3	1179.3	1180.8	1180.8
5°	1177.8	1177.8	1176.2	1177.0	1176.2	1176.2	1177.0	1177.0
7.5°	1176.2	1175.5	1174.0	1173.2	1171.7	1171.7	1171.7	1171.7
10°	1174.0	1173.2	1171.7	1170.9	1170.1	1170.1	1170.1	1170.1
12.5°	1180.1	1177.8	1176.2	1175.5	1175.5	1175.5	1175.5	1175.5
15°	1196.1	1190.8	1186.9	1186.9	1187.7	1189.2	1189.2	1190.8
17.5°	1216.0	1209.9	1206.1	1203.0	1204.5	1206.8	1208.3	1209.9
20°	1239.7	1236.6	1231.3	1228.2	1228.2	1231.3	1232.8	1233.6
22.5°	1272.5	1270.3	1268.0	1264.1	1264.1	1265.7	1268.7	1268.7
25°	1321.5	1319.9	1318.4	1315.4	1314.6	1314.6	1316.1	1317.6
27.5°	1382.6	1383.4	1381.8	1381.1	1378.8	1378.0	1380.3	1379.6
30°	1464.4	1468.2	1472.0	1469.0	1465.2	1462.9	1460.6	1457.5
32.5°	1575.2	1570.6	1567.6	1562.2	1555.3	1549.2	1544.6	1539.3
35°	1679.9	1672.3	1669.2	1673.8	1673.0	1669.2	1663.9	1659.3
37.5°	1808.3	1806.8	1808.3	1816.7	1815.2	1819.0	1808.3	1807.6
40°	1970.4	1971.9	1982.6	1992.5	1997.9	2003.2	1997.1	1991.0
42.5°	2158.4	2157.6	2161.4	2175.2	2184.4	2190.5	2177.5	2175.9
45°	2357.1	2351.7	2354.8	2366.3	2375.4	2382.3	2367.8	2367.8
47.5°	2575.7	2566.5	2556.6	2569.6	2574.9	2579.5	2568.0	2564.2
50°	2819.5	2800.4	2779.0	2784.3	2784.3	2782.8	2768.3	2767.5
52.5°	3099.2	3064.1	3025.1	3010.6	3002.1	2993.0	2967.8	2955.5
55°	3421.0	3368.2	3307.1	3269.7	3249.8	3224.6	3182.5	3171.1
57.5°	3797.0	3714.5	3609.0	3563.1	3518.8	3477.5	3430.9	3417.9
60°	4242.6	4121.1	3981.2	3896.4	3848.2	3808.5	3760.3	3758.0
62.5°	4739.4	4547.5	4389.3	4312.9	4277.8	4242.6	4196.7	4202.9
65°	5244.6	5044.3	4896.1	4834.2	4801.3	4772.3	4726.4	4733.3
67.5°	5742.9	5558.7	5395.9	5332.5	5295.8	5259.1	5217.8	5224.7
70°	6100.6	5872.1	5688.6	5548.0	5460.1	5360.8	5296.6	5280.5
72.5°	5998.2	5645.8	5354.6	5075.7	4912.1	4779.1	4688.9	4650.0
75°	5191.1	4709.6	4335.1	3992.7	3800.1	3643.4	3529.5	3458.4
77.5°	3855.1	3314.0	2871.5	2477.1	2165.2	1955.8	1808.3	1712.8
80°	2110.2	1605.0	1173.2	824.7	606.1	503.7	444.8	416.5
82.5°	657.3	424.2	312.6	269.8	250.7	240.0	222.4	194.1
85°	209.4	183.4	170.4	162.8	155.2	135.3	93.2	84.8
87.5°	81.0	83.3	82.5	78.0	79.5	57.3	45.9	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)