

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: P269129

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269129  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16630.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 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): 166  
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

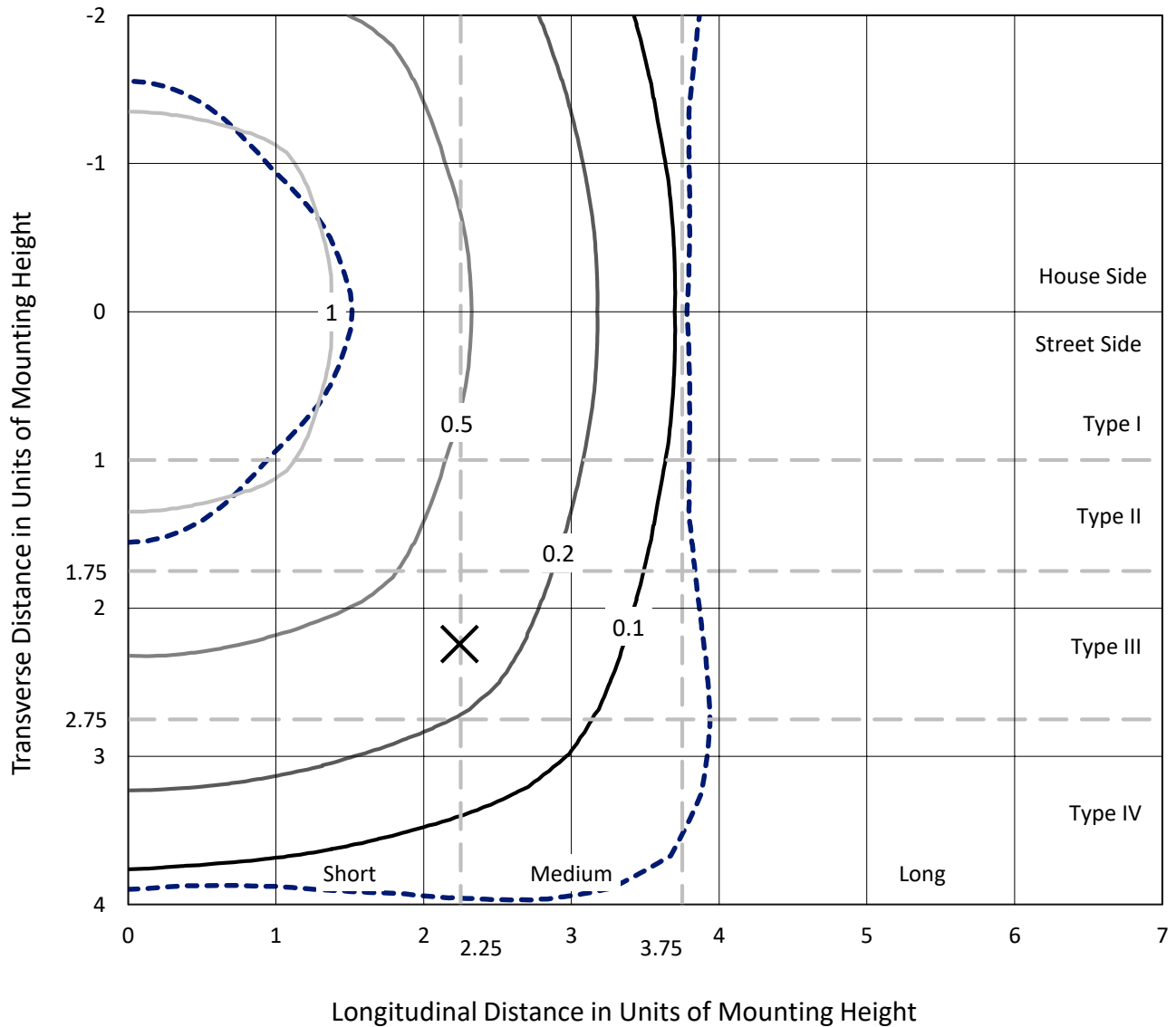


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### Iso-Footcandle Lines of Horizontal Illumination

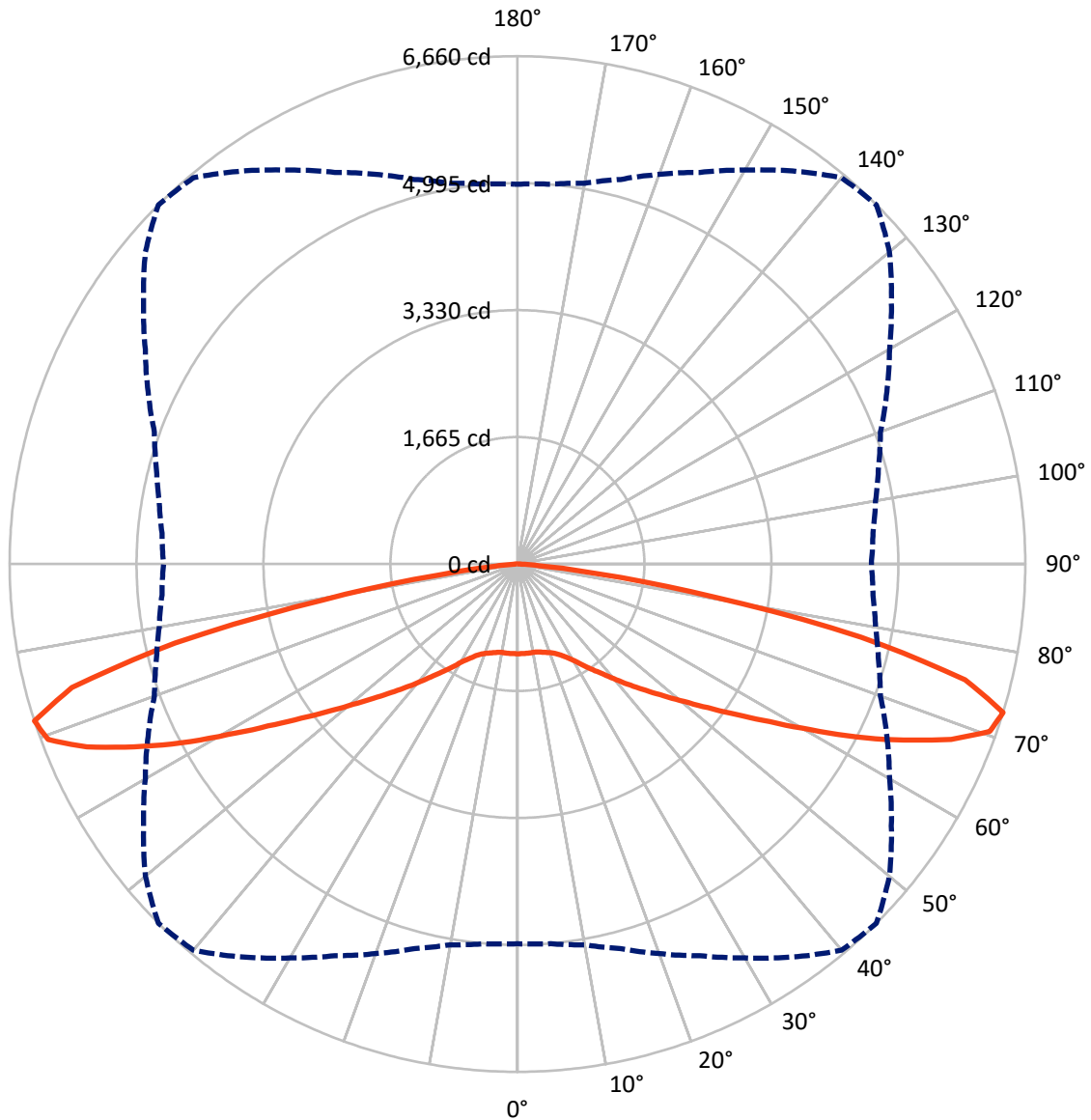
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	8315.1	0.0	8315.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8315.1	0.0	8315.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16630.2	0.0	16630.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	0.7
10°-20°	341.5	2.1
20°-30°	624.1	3.8
30°-40°	1076.1	6.5
40°-50°	1839.6	11.1
50°-60°	2981.7	17.9
60°-70°	4946.6	29.7
70°-80°	4356.8	26.2
80°-90°	351.3	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°	16630.2	100.0
0°-180°	16630.2	100.0



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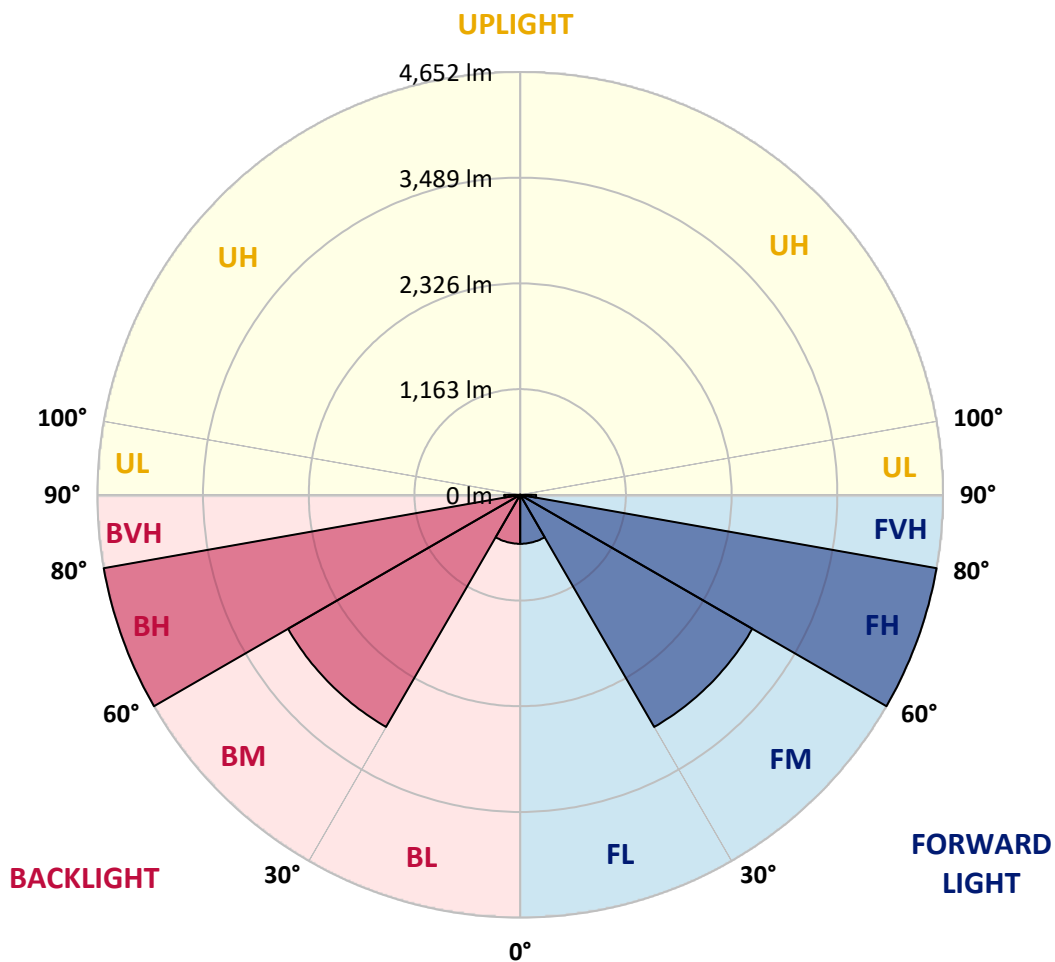
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.1	3.2			
FM	(30°-60°)	2948.7	17.7			
FH	(60°-80°)	4651.7	28.0			G2/5000
FVH	(80°-90°)	175.6	1.1			G2/225
BL	(0°-30°)	539.1	3.2	B2/1000		
BM	(30°-60°)	2948.7	17.7	B3/5000		
BH	(60°-80°)	4651.7	28.0	B4/5000		G2/5000
BVH	(80°-90°)	175.6	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°	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7
2.5°	1177.7	1178.4	1179.3	1178.4	1178.4	1177.7	1176.9	1177.7	1176.9	1175.4	1176.2
5°	1181.5	1183.0	1183.0	1181.5	1182.3	1181.5	1180.0	1180.7	1179.3	1176.9	1176.9
7.5°	1186.0	1186.8	1186.8	1185.4	1186.0	1184.5	1183.0	1182.3	1180.7	1177.7	1175.4
10°	1192.9	1193.7	1192.9	1191.4	1191.4	1189.1	1185.4	1183.7	1180.7	1176.2	1173.8
12.5°	1200.6	1201.4	1200.6	1199.1	1198.2	1194.4	1191.4	1189.1	1186.8	1183.0	1179.3
15°	1211.3	1212.7	1211.3	1208.2	1206.0	1202.8	1201.4	1202.1	1202.8	1199.7	1196.0
17.5°	1231.0	1231.8	1229.5	1222.7	1219.5	1216.6	1216.6	1218.1	1220.3	1218.9	1215.0
20°	1267.7	1265.4	1260.1	1251.7	1247.8	1242.5	1241.7	1242.5	1242.5	1241.7	1238.8
22.5°	1313.4	1312.0	1305.1	1294.4	1289.1	1286.1	1281.4	1277.6	1276.9	1274.5	1271.6
25°	1368.4	1367.6	1359.2	1350.1	1346.2	1342.4	1338.7	1333.3	1328.8	1323.4	1320.2
27.5°	1438.5	1435.5	1423.3	1418.8	1413.4	1411.1	1405.8	1399.6	1395.8	1389.0	1385.1
30°	1515.6	1515.6	1505.6	1504.1	1504.1	1498.8	1492.8	1482.1	1475.1	1468.3	1466.0
32.5°	1592.7	1593.4	1583.4	1586.4	1588.8	1592.7	1594.1	1590.3	1585.8	1585.0	1580.4
35°	1703.9	1700.9	1691.0	1693.2	1692.5	1691.8	1691.8	1700.1	1701.7	1703.1	1694.1
37.5°	1842.1	1842.1	1832.2	1832.2	1827.5	1823.0	1816.8	1822.2	1830.6	1832.9	1826.8
40°	1999.9	2005.2	1993.1	1992.4	1993.8	1979.3	1972.5	1980.9	1986.2	1995.3	1988.5
42.5°	2186.0	2182.3	2170.0	2168.5	2160.1	2155.6	2149.5	2156.3	2164.6	2170.8	2173.1
45°	2364.5	2361.5	2347.7	2347.7	2339.4	2335.6	2338.6	2350.1	2353.7	2362.3	2370.5
47.5°	2540.6	2537.0	2527.7	2531.6	2532.3	2539.1	2549.1	2559.8	2570.4	2581.9	2585.7
50°	2720.6	2721.4	2711.5	2720.6	2732.1	2751.1	2777.9	2795.4	2817.5	2832.0	2836.7
52.5°	2884.6	2887.7	2898.4	2919.9	2942.7	2980.0	3025.9	3068.5	3105.1	3129.5	3128.0
55°	3081.5	3086.0	3112.0	3148.6	3186.0	3242.4	3310.3	3385.8	3446.8	3481.9	3459.8
57.5°	3333.3	3343.1	3372.1	3421.6	3477.3	3550.6	3643.6	3757.3	3851.8	3899.2	3863.3
60°	3678.6	3684.8	3719.9	3774.8	3842.0	3932.7	4057.0	4209.5	4343.0	4405.6	4364.4
62.5°	4134.1	4145.5	4173.7	4229.4	4298.1	4401.1	4552.8	4743.5	4909.7	4996.7	4903.7
65°	4678.0	4714.6	4738.2	4794.7	4858.8	4967.7	5126.4	5330.8	5509.3	5566.4	5459.0
67.5°	5216.4	5248.4	5289.6	5354.4	5419.4	5542.2	5689.3	5887.6	6083.6	6135.6	5968.5
70°	5452.2	5470.4	5534.5	5622.9	5747.3	5892.3	6062.3	6285.0	6527.5	6570.4	6358.3
72.5°	4979.9	4998.3	5069.9	5220.2	5436.8	5667.1	5963.8	6291.1	6611.4	6659.6	6367.4
75°	3766.5	3736.7	3842.7	4041.7	4334.0	4655.0	5069.9	5539.0	6002.0	6062.3	5713.7
77.5°	1946.5	1942.8	2022.9	2269.9	2618.5	2983.9	3440.8	3970.9	4424.0	4607.0	4323.3
80°	548.4	554.6	592.6	715.5	919.1	1183.0	1540.0	2036.5	2407.2	2596.5	2437.7
82.5°	215.1	231.9	246.3	269.2	295.9	334.9	446.9	665.1	892.3	1066.3	873.3
85°	77.1	82.4	116.7	138.1	140.3	148.0	168.5	196.8	237.2	283.0	232.7
87.5°	28.9	32.0	37.4	61.8	61.1	55.7	67.9	71.0	53.4	48.8	60.2
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°	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7
2.5°	1174.7	1175.4	1175.4	1176.2	1176.9	1176.9	1178.4	1178.4
5°	1175.4	1175.4	1173.8	1174.7	1173.8	1173.8	1174.7	1174.7
7.5°	1173.8	1173.0	1171.6	1170.9	1169.2	1169.2	1169.2	1169.2
10°	1171.6	1170.9	1169.2	1168.5	1167.7	1167.7	1167.7	1167.7
12.5°	1177.7	1175.4	1173.8	1173.0	1173.0	1173.0	1173.0	1173.0
15°	1193.7	1188.4	1184.5	1184.5	1185.4	1186.8	1186.8	1188.4
17.5°	1213.5	1207.4	1203.5	1200.6	1202.1	1204.4	1206.0	1207.4
20°	1237.1	1234.1	1228.8	1225.7	1225.7	1228.8	1230.3	1231.0
22.5°	1269.9	1267.7	1265.4	1261.6	1261.6	1263.0	1266.2	1266.2
25°	1318.8	1317.3	1315.7	1312.8	1312.0	1312.0	1313.4	1314.9
27.5°	1379.7	1380.5	1379.1	1378.3	1376.1	1375.2	1377.6	1376.7
30°	1461.5	1465.2	1469.1	1466.0	1462.3	1459.8	1457.6	1454.5
32.5°	1572.0	1567.5	1564.4	1559.1	1552.2	1546.2	1541.5	1536.2
35°	1676.4	1669.0	1665.8	1670.4	1669.7	1665.8	1660.4	1655.9
37.5°	1804.7	1803.2	1804.7	1813.0	1811.5	1815.4	1804.7	1803.8
40°	1966.4	1967.8	1978.5	1988.5	1993.8	1999.2	1993.1	1987.0
42.5°	2154.0	2153.2	2157.0	2170.8	2179.9	2186.0	2173.1	2171.6
45°	2352.3	2346.9	2350.1	2361.5	2370.5	2377.5	2363.0	2363.0
47.5°	2570.4	2561.2	2551.4	2564.3	2569.7	2574.3	2562.9	2559.0
50°	2813.9	2794.6	2773.3	2778.6	2778.6	2777.2	2762.6	2761.8
52.5°	3093.0	3057.8	3018.9	3004.4	2996.0	2987.0	2961.7	2949.6
55°	3414.1	3361.4	3300.5	3263.1	3243.2	3218.0	3176.0	3164.5
57.5°	3789.3	3706.9	3601.7	3555.9	3511.7	3470.5	3424.0	3411.0
60°	4234.0	4112.7	3973.2	3888.5	3840.4	3800.8	3752.7	3750.5
62.5°	4729.8	4538.3	4380.4	4304.1	4269.0	4234.0	4188.3	4194.4
65°	5234.0	5034.1	4886.2	4824.3	4791.6	4762.5	4716.8	4723.6
67.5°	5731.2	5547.5	5385.0	5321.6	5285.1	5248.4	5207.3	5214.1
70°	6088.3	5860.2	5677.1	5536.8	5449.1	5349.9	5285.8	5269.7
72.5°	5986.0	5634.3	5343.7	5065.5	4902.2	4769.5	4679.5	4640.6
75°	5180.5	4700.0	4326.2	3984.6	3792.4	3636.0	3522.3	3451.4
77.5°	3847.4	3307.3	2865.7	2472.0	2160.9	1951.8	1804.7	1709.4
80°	2105.9	1601.8	1170.9	822.9	604.9	502.6	443.9	415.6
82.5°	655.9	423.3	311.9	269.2	250.2	239.5	221.9	193.8
85°	208.9	183.1	170.0	162.5	154.9	135.0	93.1	84.7
87.5°	80.8	83.2	82.4	77.9	79.3	57.2	45.8	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)