

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: P191591

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12578 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

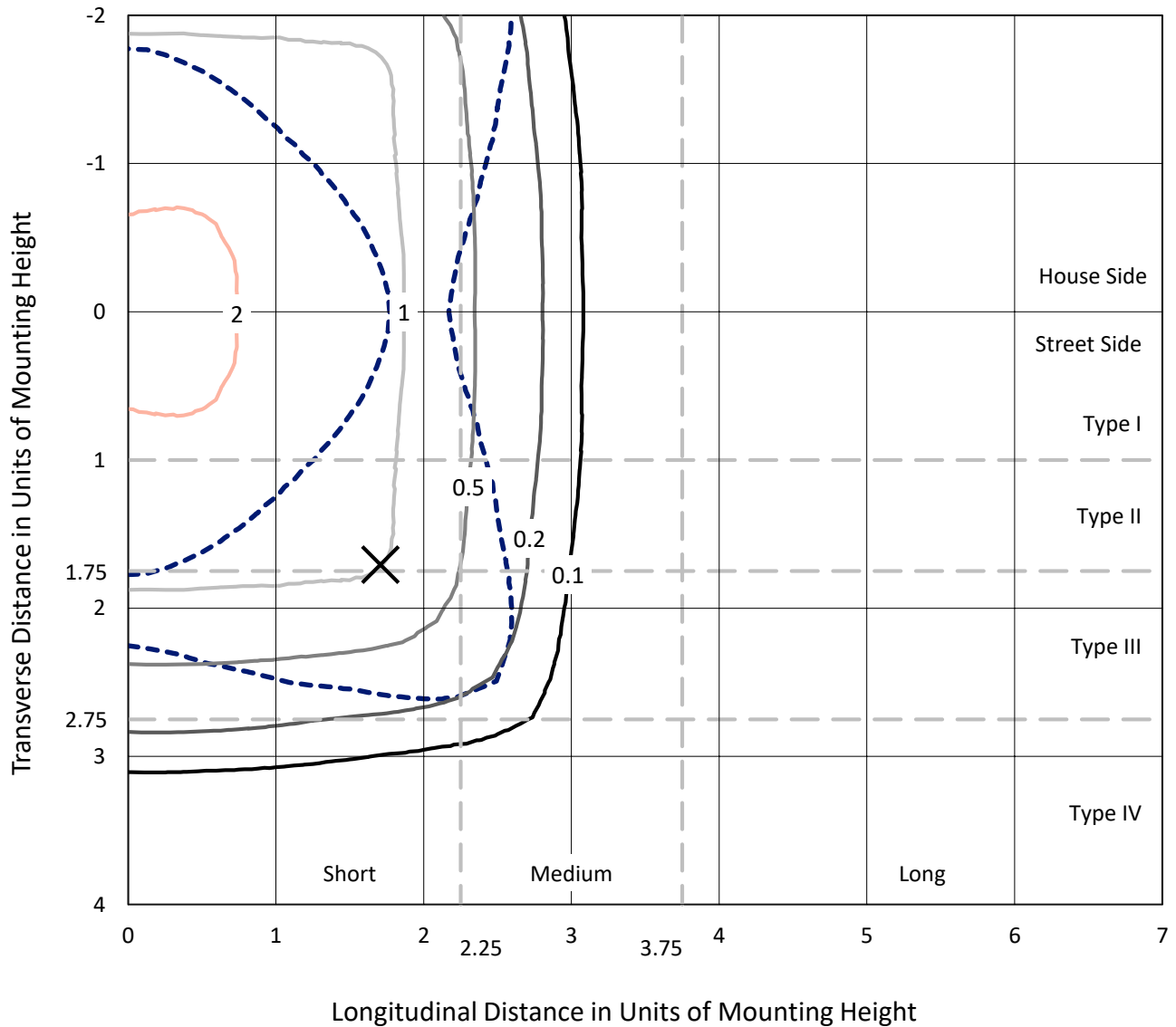
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

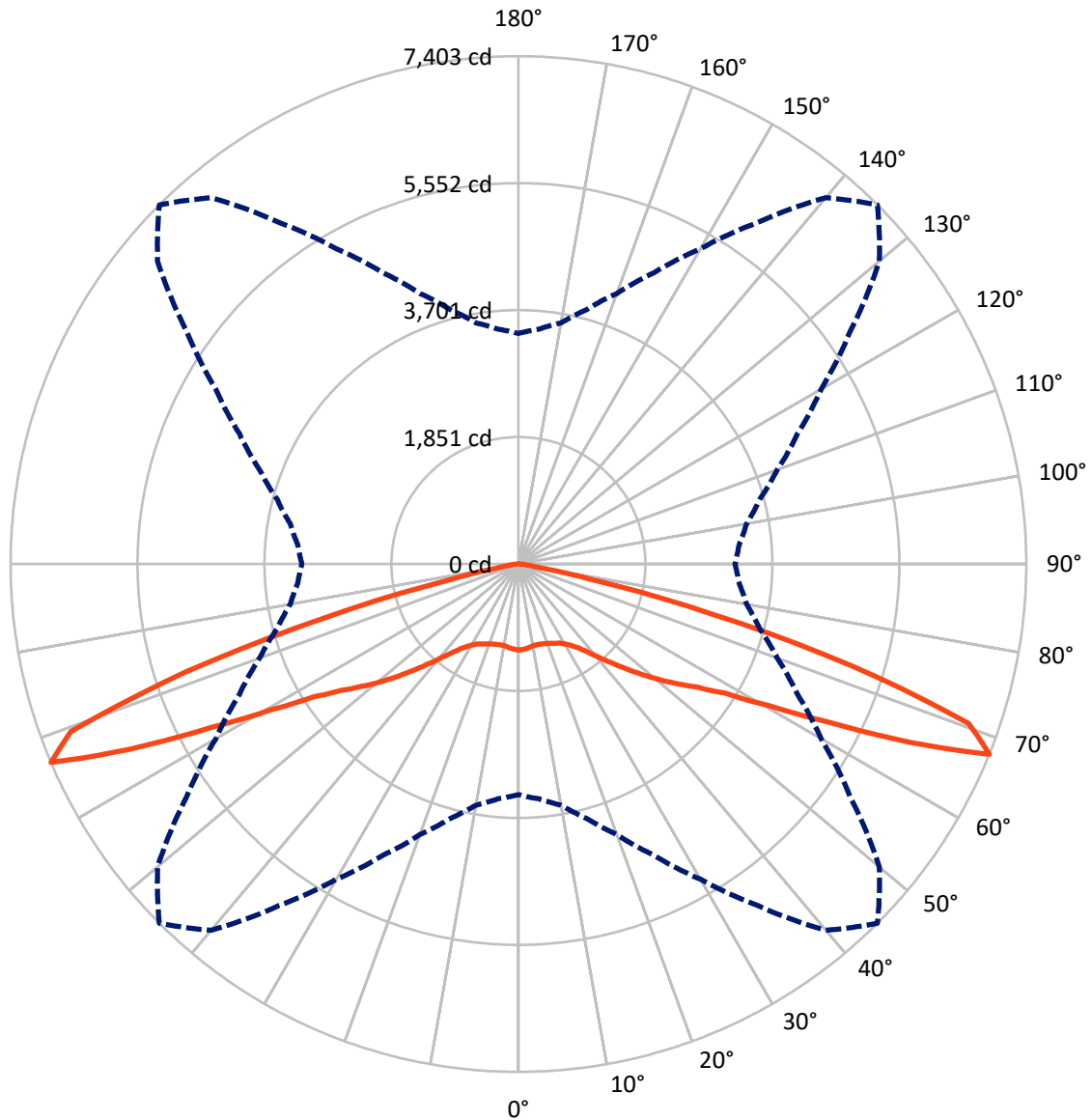
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6289.0	0.0	6289.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6289.0	0.0	6289.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12578.0	0.0	12578.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.3	0.9
10°-20°	340.4	2.7
20°-30°	578.7	4.6
30°-40°	946.0	7.5
40°-50°	1688.9	13.4
50°-60°	2847.5	22.6
60°-70°	4418.8	35.1
70°-80°	1552.6	12.3
80°-90°	87.7	0.7
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°	12578.0	100.0
0°-180°	12578.0	100.0

**Coefficient of Utilization**



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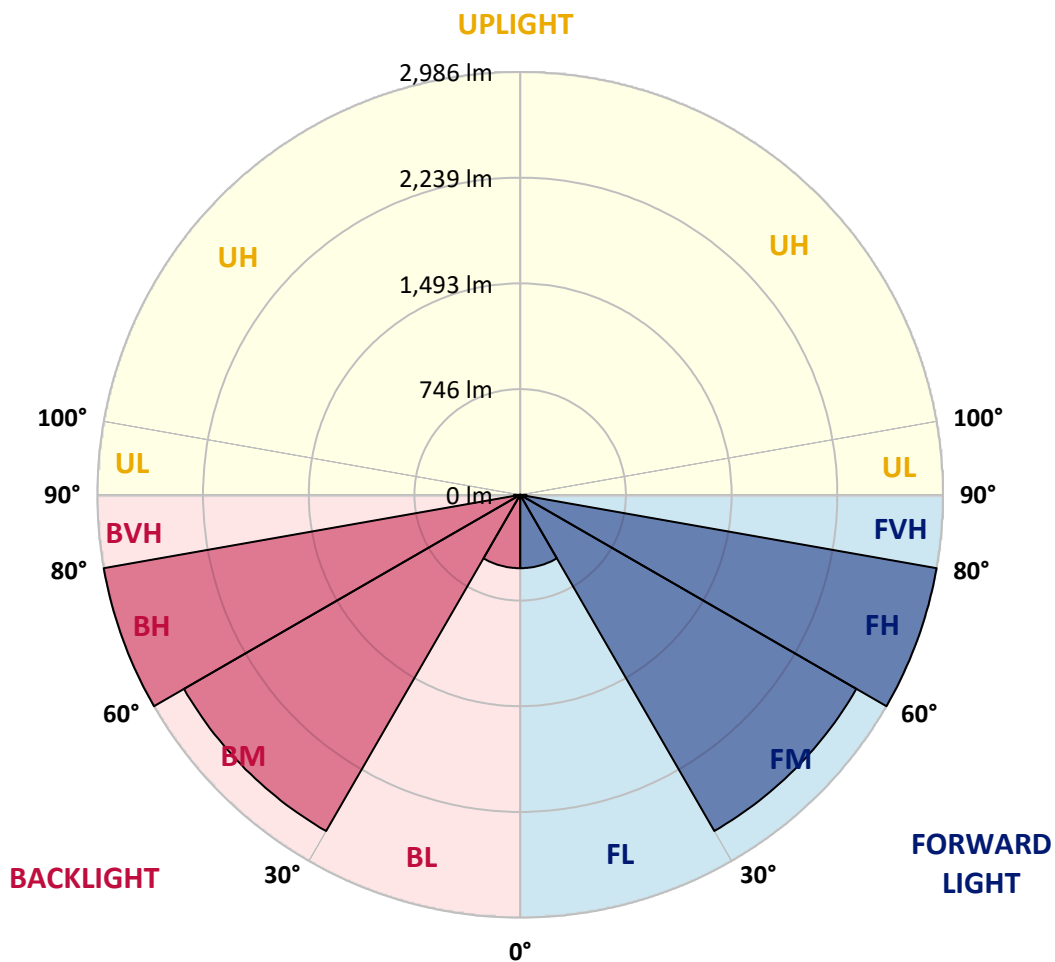
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.2	4.1			
FM (30°-60°)	2741.2	21.8			
FH (60°-80°)	2985.7	23.7			G2/5000
FVH (80°-90°)	43.9	0.3			G1/100
BL (0°-30°)	518.2	4.1	B2/1000		
BM (30°-60°)	2741.2	21.8	B3/5000		
BH (60°-80°)	2985.7	23.7	B4/5000		G2/5000
BVH (80°-90°)	43.9	0.3			G1/100
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°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1248.8	1250.0	1250.0	1250.0	1249.4	1249.4	1248.2	1249.4	1248.8	1247.1	1247.7
5°	1238.4	1239.6	1239.6	1239.0	1240.7	1240.1	1238.4	1239.6	1239.0	1237.8	1238.4
7.5°	1223.4	1225.1	1225.1	1224.5	1226.3	1225.7	1224.5	1225.1	1225.1	1223.4	1223.4
10°	1206.6	1207.8	1207.8	1207.2	1210.1	1210.1	1209.5	1211.2	1211.8	1210.1	1208.9
12.5°	1191.0	1192.7	1192.7	1195.0	1197.9	1199.1	1202.0	1204.3	1206.6	1206.0	1203.7
15°	1181.7	1182.9	1185.2	1188.1	1192.7	1196.8	1201.4	1206.6	1211.2	1212.4	1208.9
17.5°	1175.9	1177.7	1181.1	1185.2	1191.6	1198.5	1205.4	1212.4	1218.7	1221.1	1217.0
20°	1174.2	1175.4	1178.8	1185.8	1194.5	1204.9	1214.7	1222.8	1231.5	1234.4	1231.5
22.5°	1177.7	1180.0	1184.0	1192.1	1203.7	1217.0	1228.6	1239.6	1250.6	1255.8	1251.7
25°	1193.3	1195.6	1200.8	1211.2	1224.0	1237.8	1251.1	1263.9	1273.7	1278.9	1276.0
27.5°	1222.2	1225.1	1231.5	1241.9	1255.8	1270.8	1285.3	1295.7	1303.8	1305.5	1302.0
30°	1265.6	1272.0	1279.5	1291.0	1307.2	1320.0	1334.4	1343.7	1353.5	1353.5	1350.6
32.5°	1333.3	1339.6	1347.7	1358.7	1371.4	1385.3	1398.1	1406.2	1416.6	1417.1	1410.2
35°	1434.5	1437.4	1444.3	1451.3	1462.8	1475.0	1486.0	1491.2	1499.9	1500.4	1494.1
37.5°	1568.1	1568.7	1573.3	1575.6	1586.0	1599.3	1609.8	1613.2	1621.3	1620.2	1613.8
40°	1723.7	1726.6	1728.3	1731.8	1742.8	1755.5	1766.5	1768.3	1776.9	1775.2	1767.1
42.5°	1903.6	1904.8	1914.6	1919.8	1930.2	1936.6	1950.5	1952.2	1962.6	1958.0	1948.7
45°	2105.5	2115.9	2125.1	2135.6	2146.5	2154.1	2165.1	2162.7	2169.7	2162.7	2157.5
47.5°	2317.8	2325.3	2346.1	2362.3	2380.2	2386.6	2402.2	2395.3	2402.2	2392.4	2390.6
50°	2551.4	2564.7	2582.7	2601.2	2620.3	2630.7	2650.9	2642.3	2651.5	2642.3	2637.0
52.5°	2781.7	2785.1	2824.5	2851.6	2878.3	2890.4	2902.5	2898.5	2899.1	2898.5	2893.3
55°	3000.3	3008.4	3047.7	3084.7	3131.0	3165.2	3186.0	3183.7	3178.5	3173.2	3164.6
57.5°	3246.7	3254.8	3299.9	3345.6	3398.3	3446.8	3489.1	3532.5	3549.2	3553.9	3534.8
60°	3579.9	3579.3	3639.5	3695.0	3770.2	3842.5	3935.0	4029.3	4137.5	4187.8	4121.3
62.5°	3918.8	3932.7	4019.5	4117.8	4272.8	4423.8	4594.4	4762.2	4933.4	5072.8	4924.7
65°	3878.4	3931.6	4060.6	4283.3	4569.6	4909.7	5277.6	5666.8	6018.5	6260.3	5989.0
67.5°	3361.2	3437.0	3568.3	3839.0	4197.1	4687.6	5305.3	6075.2	6970.0	7402.7	6866.5
70°	2436.3	2521.9	2659.6	2923.9	3278.5	3744.7	4415.7	5340.0	6524.7	6960.8	6370.2
72.5°	1212.4	1258.7	1343.7	1512.0	1780.4	2158.7	2767.2	3655.7	4703.8	5104.0	4564.4
75°	411.8	433.2	447.7	502.7	587.7	736.3	1038.9	1598.2	2438.1	2922.8	2403.4
77.5°	237.7	238.3	248.1	258.0	272.4	288.6	329.1	432.1	747.3	1061.4	773.4
80°	153.9	153.3	161.4	168.9	178.7	186.8	189.1	200.1	230.8	273.6	244.7
82.5°	79.8	89.7	107.6	117.4	135.9	139.4	134.8	130.7	138.2	143.4	146.9
85°	44.0	38.2	57.3	74.0	82.1	83.3	83.3	78.7	81.6	79.8	86.8
87.5°	20.2	18.5	22.6	36.4	38.8	33.0	34.7	30.7	22.0	21.4	24.3
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°	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5	1253.5
2.5°	1247.7	1248.2	1248.2	1250.0	1250.6	1251.7	1252.9	1253.5
5°	1237.8	1239.6	1238.4	1240.1	1240.1	1241.3	1241.3	1241.9
7.5°	1223.4	1225.1	1225.1	1225.1	1224.5	1226.3	1226.3	1226.3
10°	1208.3	1209.5	1208.9	1207.8	1206.6	1208.3	1207.8	1207.2
12.5°	1203.7	1200.8	1198.5	1197.3	1195.0	1195.6	1193.9	1193.9
15°	1206.6	1201.4	1197.3	1195.6	1193.3	1192.1	1191.0	1191.6
17.5°	1214.1	1207.8	1202.5	1199.7	1196.8	1195.0	1192.7	1193.3
20°	1227.4	1219.9	1212.4	1206.6	1201.4	1198.5	1196.8	1196.2
22.5°	1247.1	1236.1	1225.1	1216.4	1209.5	1205.4	1203.7	1202.5
25°	1269.6	1257.5	1244.8	1234.9	1228.0	1222.8	1219.3	1219.3
27.5°	1298.0	1288.2	1276.6	1265.0	1258.7	1253.5	1251.1	1250.0
30°	1345.4	1336.2	1326.9	1315.9	1307.8	1302.6	1298.6	1295.1
32.5°	1406.2	1398.6	1391.1	1383.0	1375.5	1368.6	1362.2	1359.3
35°	1491.8	1486.0	1480.8	1471.5	1468.6	1464.6	1461.1	1458.2
37.5°	1609.8	1607.4	1607.4	1597.6	1595.3	1593.6	1590.1	1590.7
40°	1764.8	1767.1	1764.2	1760.7	1759.0	1754.4	1754.4	1758.4
42.5°	1948.1	1949.9	1956.2	1950.5	1956.8	1951.0	1947.6	1950.5
45°	2161.0	2167.4	2180.1	2174.3	2178.4	2168.5	2156.4	2157.0
47.5°	2399.9	2405.7	2410.9	2406.8	2407.4	2391.2	2375.0	2371.0
50°	2648.0	2650.4	2653.2	2647.5	2648.6	2630.7	2612.2	2612.8
52.5°	2893.3	2904.3	2915.8	2900.2	2896.8	2876.5	2850.5	2840.1
55°	3173.8	3189.4	3176.1	3149.0	3121.8	3094.6	3060.5	3054.7
57.5°	3519.7	3493.1	3451.5	3400.0	3362.4	3324.2	3289.5	3275.1
60°	4001.0	3900.9	3825.7	3749.4	3701.4	3654.5	3608.8	3601.9
62.5°	4681.2	4508.3	4358.4	4200.5	4071.5	3970.9	3890.5	3867.9
65°	5533.8	5124.9	4770.3	4439.4	4151.9	3935.0	3798.5	3738.4
67.5°	5900.5	5093.0	4485.1	4015.4	3639.5	3376.9	3229.4	3155.9
70°	5185.0	4223.7	3562.5	3092.3	2749.8	2469.9	2336.3	2257.6
72.5°	3567.2	2686.8	2124.6	1734.1	1460.5	1226.3	1133.7	1126.8
75°	1601.7	1060.8	731.1	563.4	474.3	412.4	393.3	378.9
77.5°	448.3	331.4	295.6	276.5	258.0	236.6	228.5	230.2
80°	218.1	205.9	197.8	185.7	168.9	151.0	142.9	146.3
82.5°	144.6	142.9	148.1	139.4	115.1	97.8	82.1	75.2
85°	87.9	89.1	90.8	91.4	77.5	54.4	37.0	41.6
87.5°	34.7	39.9	43.4	45.1	42.2	26.0	20.8	21.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)